



KOVES[®]
科维丝工具

CUTTING TOOL

切削工具

2022-2023



KOVES[®]
科维丝工具

切削工具

2
0
2
2



KOVES[®]
科维丝工具

KOVES INDUSTRY CO., LTD
科维丝工业有限公司
[Http://www.kovestool.cn](http://www.kovestool.cn)
E-mail:koves@kovestool.com

DONGGUAN KOVES PRECISION TOOLS CO.,LTD
东莞市科维丝精密工具有限公司
[Http:// www.pcbn.com](http://www.pcbn.com)
E-maill: koves@pcbn.com



www.pcbn.com

ABOUT US

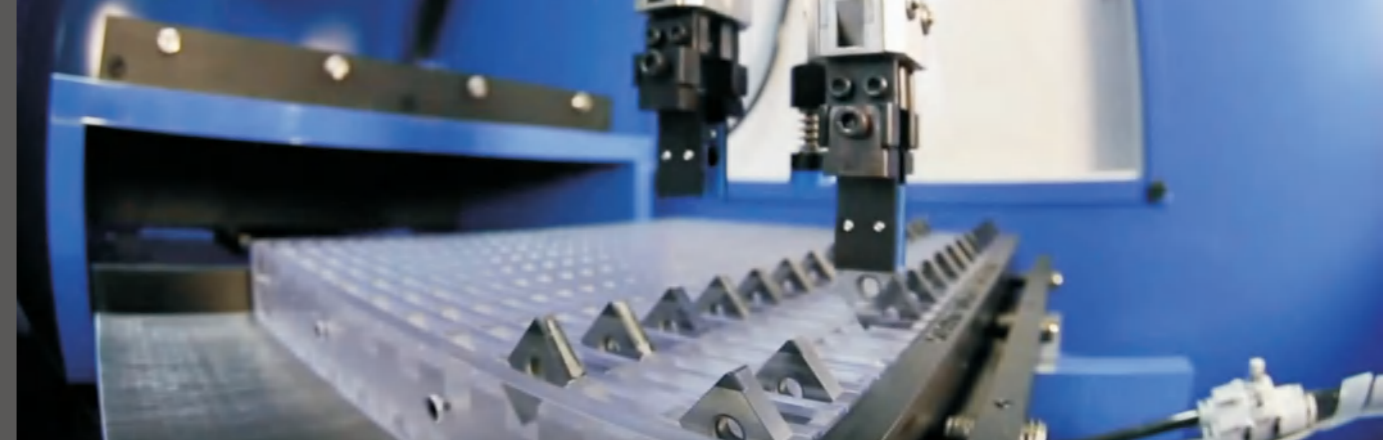
关于我们



科维丝公司是一家面向全球服务、专注于切削工具产品生产与销售的企业。公司成立于2009年，从成立之初就注重技术服务为基础，公司建有“高性能数控刀具与工具系统技术联合实验室”，同时我们根据客户的产品和工艺需求：制定和优化加工工艺方案；选择合理切削参数；计算加工节拍；选择工具、刀具、刀片及配件；量身定做非标刀具；提供与机械加工相关的全套技术服务。

KOVES is a global service-oriented enterprise, specializing in the production, developing and sales of cutting tool products.

KOVES was founded in 2009 and has been based on technical services since its inception. We have built a joint laboratory of high performance CNC tool and tool system technology. At the same time, we are based on the customer's product and process requirements: Develop and optimize process plans; choose reasonable cutting parameters; calculate machining cycles; select tools, cutters, blades and accessories; customized non-standard tools; provide a full range of technical services related to mechanical processing.



Contents

目录

A-明星产品 A-star product	.....	A01-A12
B-PCBN刀具 B-PCBN cutting tools	.....	B01-B46
C-PCD刀具 C-PCD cutting tools	.....	C01-C46
D-机夹刀片 D-Machine clip blade	.....	D01-D36
E-外圆车刀 E-External turning tool	.....	E01-E49
F-小型车床用刀具 F-Tools for small lathes	.....	F03-F34
G-内孔车刀 G- Inner hole turning tool	.....	G01-G29
H-切断切槽车刀 H-Cutting tank car cutter	.....	H01-H24
I-螺纹车刀 I-thread turning tool	.....	I01-I22
J-舍弃式铣刀 J-abandon milling cutter	.....	J01-J52
K-合金铣刀 K-alloy milling cutter	.....	K01-K72
L-合金钻头 L-alloy bit	.....	L01-L44
M-舍弃式钻头 M-drop bit	.....	M01-M84
N-舍弃式铰刀 N-drop reamer	.....	N01-N10
O-丝攻 O-tap	.....	O01-O44
P-工具系统 P-Tool system	.....	P01-P80
Q-技术资料 Q-Technical information	.....	Q01-Q14

明星产品Star product

KOVES®
科维丝工具

粉末冶金加工用PCBN刀片
PCBN inserts for Sintered alloy processing

材质 **KBN900**
P M K N S H



实现粉末冶金的高效率加工
耐磨损性优异，因而能够在高速条件下稳定加工
Achieves high efficiency machining of sintered alloy
Superior wear resistance makes stable machining possible under high-speed

支持高精度加工；
能够长时间保持优异的尺寸精度和表面粗糙度
Supports high-precision machining
Can maintain excellent dimensional tolerance and surface roughness over many hours



KOVES®
科维丝工具

高硬铣削加工用PCBN刀片
PCBN inserts for milling
材质 **KBN710**

P M K N S H



支持高精度加工；
能够长时间保持优异的尺寸精度和表面粗糙度

Supports high-precision machining
Can maintain excellent dimensional tolerance and surface



明星产品Star product

KOVES®
科维丝工具

淬火钢加工用PCBN刀片
PCBN inserts for harden quenched steel
材质 **KBN10N/KBN20N/KBN25N/KBN35N**

P M K N S H



适用于淬火钢加工的专用材质
Special material suitable for quenching steel processing

支持高精度加工；
能够长时间保持优异的尺寸精度和表面粗糙度
Support high precision machining;
Can maintain excellent dimensional accuracy and surface roughness for a long time



KOVES®
科维丝工具

可转位面铣刀盘
65° Indexable Face Mills
材质 **KBN910**

P M K N S H



- 采用单面五刃，高效经济的利器。
- 低阻力设计
- 适用于钢及铸铁的中，重型铣削加工。
Adopt single-sided five-blade, efficient and economical sharp tool.
- Low resistance design
- Suitable for medium and heavy milling of steel and cast iron.



KOVES®
科维丝工具

铸铁加工用PCBN刀片
PCBN inserts for Cast iron processing

材质 **KBN910/KBN800**
P M K N S H



VC=600mm/min以上时实现稳定的长寿命；
耐磨损性优异，因而能够在高速条件下稳定加工
Achieves a long, Stable tool life at Vc=600mm/min
Superior wear resistance makes stable machining possible under high-speed conditions

支持高精度加工；
能够长时间保持优异的尺寸精度和表面粗糙度
Support high precision machining;
Can maintain excellent dimensional accuracy and surface roughness for a long time



KOVES®
科维丝工具

淬火钢加工用PCBN涂层刀片
PCBN coated inserts for harden quenched steel
材质 **KBCN700/KBCN750**

P M K N S H



适用于淬火钢加工的通用材质

支持高精度加工；
能够长时间保持优异的尺寸精度和表面粗糙度
Universal material for hardening steel processing
Support high precision machining;
Can maintain excellent dimensional accuracy and surface roughness for a long time



KOVES®
科维丝工具

精密PCBN切槽刀片
Grooving PCBN inserts

材质 **KBN710**
P M K N S H



www.pcbn.com

NS切槽系列：
NS Slotting series:
刃宽1.0mm~6.0mm的范围变化
采用立式刀片提高刀具刚性
切槽加工专用材质，在断续加工中表现优异

The blade width varies from 1.0mm to 6.0mm
Adopt vertical blade to improve tool rigidity
Grooving processing special material, excellent performance in intermittent processing



KOVES®
科维丝工具

PCBN小径镗孔刀
PCBN Small boring tool
材质 **KBN700**

P M K N S H



实现2.0mm的最小加工直径
采用淬火钢加工优异的加工材质
可定制各类小径领域的切削要求
实现替代研磨加工的高效加工
Achieve a minimum machining diameter of 2.0mm. Using hardened steel processing excellent processing material. Can customize all kinds of small field cutting requirements. To achieve efficient machining instead of grinding



明星产品Star product



KOVES®
科维丝工具

PCD断屑槽金刚石刀片

FA/KPD10

PCD Chipbreaker inserts

P M K N S H

- (1)PCD断屑槽型刀片，效率高、寿命长。
- (2)可让内孔加工排屑更顺畅，满足高加工表面要求。
- (3)可防止不顺畅排屑造成的刀具损坏、刀杆断裂、工件报废。

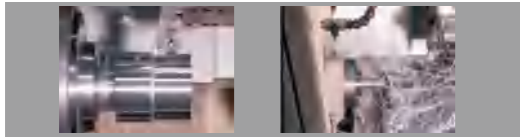
(1)PCD chip breaker blade, high efficiency, long life.

(2) Can make the inner hole processing chip discharge more smoothly, to meet the requirements of high processing surface.

(3) Can prevent not smooth chip discharge caused by tool damage, tool bar fracture, workpiece scrap.

排屑效果对比:

Turning contrast



带断屑槽

With chipbreaker

不带断屑槽

Without chipbreaker



We have a passion for quality

KOVES®
科维丝工具

PCD钻头

PCD Drill

适合加工石墨，氮化硅，玻璃石英等材料
Suitable for processing graphite, silicon nitride, glass quartz and other materials



We have a passion for quality

明星产品Star product

KOVES®
科维丝工具

钢件加工刀片

KC1115/KC1125

P M K N S H



We have a passion for quality

KOVES®
科维丝工具

铸铁加工刀片

KC3110/KC3115

P M K N S H



We have a passion for quality

KOVES®
科维丝工具

PCD铣刀

PCD End mill

适合加工铝合金，碳纤维，石墨，
氮化硅，玻璃石英等材料

Suitable for processing aluminum alloy, carbon fiber, graphite,
Silicon nitride, glass quartz and other materials



We have a passion for quality

KOVES®
科维丝工具

PCD非标刀具

PCD Tools



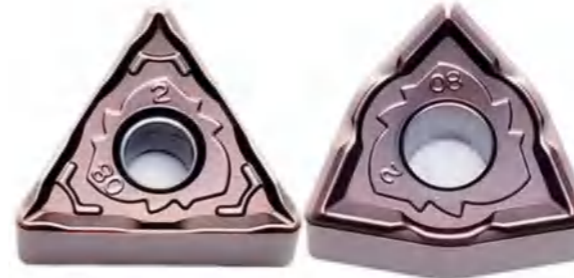
We have a passion for quality

KOVES®
科维丝工具

高温合金加工刀片

KP6105/KP6110

P M K N S H



We have a passion for quality

KOVES®
科维丝工具

不锈钢加工刀片

KP2120/KP2130

P M K N S H



We have a passion for quality

明星产品Star product
KOVES®
科维丝工具

D-Type
双重压紧式外圆车刀杆
Double pressure type cylindrical turning tool lever



We have a passion for quality

KOVES®
科维丝工具

小零件加工刀具
KER 系列

前扫/后扫/切槽/切断/螺纹
广泛应用于医疗, 3C等行业小零件
Sweep forward/sweep back/slot/cut off/thread
Widely used in medical, 3C and other industries small parts



We have a passion for quality

明星产品Star product
KOVES®
科维丝工具

螺纹刀片
Threaded inserts
KTX/KVX/KW20
P M K N S H



We have a passion for quality

KOVES®
科维丝工具

霸王槽刀
Fuller dao overlord
Wd系列
P M K N S H



We have a passion for quality

KOVES®
科维丝工具

整体合金内孔车刀
Integral alloy inner hole turning tool



We have a passion for quality

KOVES®
科维丝工具

合金内孔车刀杆
Carbide boring bar



We have a passion for quality

KOVES®
科维丝工具

快进给铣削刀具
Fast forward feed milling cutter
LNMU系列
P M K N S H



We have a passion for quality

KOVES®
科维丝工具

精密平面铣削刀具
Precision plane milling tools
MFWN系列
P M K N S H



We have a passion for quality

明星产品Star product
KOVES®
科维丝工具

独特的槽型设计, 实现卓越的高硬钢材料加工
Unique groove design to achieve excellent processing of high hard steel materials
高的涂层硬度和优良的耐高温氧化性能, 有效延长刀具寿命
High coating hardness and excellent oxidation resistance, effectively prolong tool life
特殊的表面后处理, 有效降低摩擦力, 加工表面质量更优
Special surface post-treatment, effectively reduce the friction, processing surface quality is better



高速高硬钨钢铣刀
High speed tungsten steel milling cutter
HY-MAX
P M K N S H



We have a passion for quality

KOVES®
科维丝工具

钛合金加工铣刀
Titanium alloy milling cutter
XS-MAX
P M K N S H



轻松应对难切削材料加工
Easy to handle hard cutting materials



We have a passion for quality

明星产品Star product
KOVES®
科维丝工具

深孔钻
Deep hole drilling



We have a passion for quality

KOVES®
科维丝工具

合金丝攻
Wire tapping
Carbide Taps



We have a passion for quality

KOVES®
科维丝工具

整体合金螺纹铣刀
Solid alloy thread milling cutter



We have a passion for quality

KOVES®
科维丝工具

合金微钻
Alloy micro drill
Micro drills

最小直径: 0.04mm
Minimum diameter: 0.04mm



We have a passion for quality

KOVES®
科维丝工具

液压刀柄
Hydraulic handle
Hydraulic Chucks



We have a passion for quality

KOVES®
科维丝工具

热胀刀柄
Heat to the handle
Shrink Fit Toolholders



We have a passion for quality

CVD涂层刀片厂家牌号对照表
Grade table of CVD coating

加工类别 Machining Type	工件材料 Workpiece Material	分类代号 Code	各厂家牌号对照列表 Grade table of competitors and KOVES																																																																																																																																																																																																																																																																																																																																																																																																																																											
			科维丝 KOVES	山特维克 SANDVIK	伊斯卡 ISACR	肯纳金属 KENNAMETAL	特固克 TAEGUTEK	瓦尔特 WALTER	三菱 MITSUBISHI	住友 SUMITOMO	泰珂洛 TUNGALOY	京瓷 KYOCERA	迪杰特 DIJET	日立 HITACHI	伊姆科 KORLOY	山迪 SECO	株洲钻石 ZCC.CT																																																																																																																																																																																																																																																																																																																																																																																																																													
			<table border="1"> <tr> <td rowspan="12">车削 Turning</td> <td rowspan="6">P</td> <td>P01</td><td>GC4005</td><td>IC9150</td><td>KC9105</td><td></td><td>WAP01</td><td>UE6050</td><td>AC700G</td><td>T9005</td><td>CA5505</td><td>JC110V</td><td>HC5000</td><td></td><td>TP1000 TK1000</td><td></td></tr> <tr> <td>P10</td><td>KC1115</td><td>GC4015</td><td>IC9150 IC9015</td><td>KC9110 TN7005 TN7010</td><td>TT1300</td><td>WAP10</td><td>UE6050 UE6110 UE6010 UC6020 UC6010</td><td>AC700G AC2000</td><td>T9005 T9015</td><td>CA5505 CA5515</td><td>JC110V JC215V</td><td>HG8010 GM8015 GM10</td><td>NC310 NC3015</td><td>TP1000 TK1000 TP2000 TK2000</td><td>YBC152 YBC151</td></tr> <tr> <td>P20</td><td>KC1115 KC1125</td><td>GC4015 GC4225 GC4025 GC2015</td><td>IC9250 IC9025 IC9054</td><td>KC9125 KC9225 TN7015</td><td>TT1500</td><td>WAP20</td><td>UE6110 UE6010 UE6020 UC6010</td><td>AC2000 AC3000</td><td>T9015 T9025</td><td>CA5515 CA5525 CA5025 CR9025</td><td>JC110V JC215V</td><td>HG8025 GM8020</td><td>NC3020</td><td>TP2000 TK2000 TP200</td><td>YBC251 YBC252</td></tr> <tr> <td>P30</td><td>KC1125 KC1135</td><td>GC4225 GC4025 GC2025 GC2135</td><td>IC9350 IC656</td><td>KC8050 TN7025</td><td>TT3500 TT5100</td><td>WAP30</td><td>UE6035 UH6400 US735</td><td>AC3000 AC630M</td><td>T9025 T9035</td><td>CA5535</td><td>JC215V JC325</td><td>GM25</td><td>NC330</td><td>TP3000 TP300</td><td>YBC252 YBC351</td></tr> <tr> <td>P40</td><td></td><td>GC4035 GC235</td><td>IC635</td><td>KC9140 KC9040 KC9240 KC9245 TN7035 TPC35</td><td>TT450</td><td></td><td>UE6035 UH6400 US735</td><td>AC630M</td><td>T9035</td><td>CA5535</td><td>JC325V JC450V</td><td>GM8035 GX30</td><td></td><td>TP3000 TP400</td><td>YBC351</td></tr> <tr> <td>M10</td><td></td><td>GC2015</td><td>IC9250</td><td>TN7010</td><td></td><td>WAM10</td><td>US7020</td><td>AC610M</td><td>T9015</td><td>CA6515 CA6015</td><td>JC110V</td><td>GM10</td><td></td><td>TP200</td><td></td></tr> <tr> <td>M20</td><td></td><td>GC2025</td><td>IC9250 IC9025 IC9054</td><td>KC9225 TN7015</td><td>TT2500</td><td>WAM20</td><td>US7020</td><td>AC610M AC630M</td><td>T6020 T9025</td><td>CA6525 CA6015</td><td>JC110V JC215V</td><td>GM8020</td><td>NC9020</td><td>TP200</td><td>YBM151</td></tr> <tr> <td>M30</td><td></td><td>GC2135 GC235</td><td>IC9350 IC9025</td><td>KC8050 TN8025</td><td>TT3500</td><td>WAM30</td><td>US735</td><td>AC630M</td><td>T6030</td><td></td><td>JC215V JC325V</td><td>HG8025 GM25</td><td>NC330</td><td>TP300 TP400 TP40</td><td>YBM151 YBC251</td></tr> <tr> <td>M40</td><td></td><td></td><td>IC656 IC635</td><td>KC9240 KC9245 TPC35</td><td>TT5100</td><td></td><td>US735</td><td></td><td></td><td></td><td>JC325V JC450V</td><td>GX30</td><td></td><td>TP400 TP40</td><td></td></tr> <tr> <td>K01</td><td></td><td>GC3205 GC3210</td><td>IC9150</td><td></td><td></td><td></td><td>UC5015</td><td>AC300G</td><td>T5010</td><td>CA4010</td><td>JC105V</td><td>GM3005</td><td></td><td>TK1000</td><td>YBD052</td></tr> <tr> <td>K10</td><td>KC3110</td><td>GC3205 GC3210 GC3015</td><td>IC9150 IC9015 IC4010 IC418 IC428</td><td>KC9315 KC9110 TN5015</td><td>TT1300</td><td>WAK10</td><td>UC5115</td><td>AC700G</td><td>T5010</td><td>CA4010 AC4115</td><td>JC110V</td><td>HG8010 GM8015</td><td>N305K</td><td>TK1000 TK2000</td><td>YBD102 YBD151</td></tr> <tr> <td>K20</td><td>KC3125</td><td>GC3215</td><td>IC9015</td><td></td><td>TT1500</td><td>WAK20</td><td>UC5115</td><td>AC700G</td><td>T5020</td><td>CA4120</td><td>JC110V JC215V</td><td>HG8025 GM8020</td><td>N315K</td><td>TK2000 TP200</td><td>YBD152 YBD252</td></tr> <tr> <td rowspan="12">铣削 Milling</td> <td rowspan="6">P</td> <td>P01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>P10</td><td></td><td>IC9080 IC4100</td><td>TN2510 TN25M</td><td></td><td></td><td>ACP100</td><td></td><td></td><td></td><td>JC730U</td><td></td><td></td><td></td><td></td></tr> <tr> <td>P20</td><td></td><td>GC4020</td><td>IC520M</td><td>TN7525</td><td></td><td>WAP25</td><td>FH7020 F7030</td><td>ACP100</td><td></td><td></td><td>JC730U</td><td></td><td>T200M T250M</td><td>YBM251</td></tr> <tr> <td>P30</td><td></td><td>GC4030</td><td>IC4050</td><td>KC930M</td><td>TT7300</td><td>WAP35</td><td>F7030</td><td>AC230</td><td>T3030</td><td></td><td></td><td>NCM335</td><td>T250M T350M T25M</td><td>YBM351</td></tr> <tr> <td>P40</td><td></td><td>GC4240 GC4040</td><td></td><td>KC935M TN7535</td><td></td><td></td><td></td><td>AC230</td><td></td><td></td><td>GF30 GX2030 GX30</td><td></td><td>T350M</td><td></td></tr> <tr> <td>M01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>M10</td><td></td><td></td><td></td><td>TN25M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>M20</td><td></td><td></td><td>IC520M</td><td>TN7525</td><td></td><td></td><td>F7030</td><td></td><td></td><td></td><td>JC730U</td><td></td><td></td><td>T350M T25M</td><td>YBM251</td></tr> <tr> <td>M30</td><td></td><td>GC2040</td><td>IC4050</td><td>KC930M TN7535</td><td></td><td>WTP35</td><td>F7030</td><td></td><td>T3030</td><td></td><td></td><td>NCM335</td><td></td><td>T250M T25M</td><td>YBM351</td></tr> <tr> <td>M40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>GF30 GX30</td><td></td><td></td><td></td><td></td></tr> <tr> <td>K01</td><td></td><td></td><td>IC9080</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>JC600</td><td></td><td></td><td></td><td></td></tr> <tr> <td>K10</td><td></td><td></td><td>IC4100</td><td>TN5505 TN5515</td><td></td><td>WAK15</td><td>F5010</td><td>ACK200 AC211</td><td>T1015</td><td></td><td>JC600</td><td></td><td>NCM310</td><td></td><td>YBD152</td></tr> <tr> <td>K20</td><td></td><td>GC3220 GC3020 K20D K21W</td><td></td><td>C520M DT7150</td><td></td><td>WAK25</td><td>F5020</td><td>ACK200</td><td>T1015</td><td></td><td>JC610</td><td></td><td>NCM320</td><td>T150M T200M</td><td>YBD252</td></tr> <tr> <td>K30</td><td></td><td>GC3040</td><td>IC4050</td><td>KC930M KC935M</td><td></td><td></td><td></td><td></td><td></td><td></td><td>JC610</td><td></td><td></td><td>T200M</td><td></td></tr> </table>																	车削 Turning	P	P01	GC4005	IC9150	KC9105		WAP01	UE6050	AC700G	T9005	CA5505	JC110V	HC5000		TP1000 TK1000		P10	KC1115	GC4015	IC9150 IC9015	KC9110 TN7005 TN7010	TT1300	WAP10	UE6050 UE6110 UE6010 UC6020 UC6010	AC700G AC2000	T9005 T9015	CA5505 CA5515	JC110V JC215V	HG8010 GM8015 GM10	NC310 NC3015	TP1000 TK1000 TP2000 TK2000	YBC152 YBC151	P20	KC1115 KC1125	GC4015 GC4225 GC4025 GC2015	IC9250 IC9025 IC9054	KC9125 KC9225 TN7015	TT1500	WAP20	UE6110 UE6010 UE6020 UC6010	AC2000 AC3000	T9015 T9025	CA5515 CA5525 CA5025 CR9025	JC110V JC215V	HG8025 GM8020	NC3020	TP2000 TK2000 TP200	YBC251 YBC252	P30	KC1125 KC1135	GC4225 GC4025 GC2025 GC2135	IC9350 IC656	KC8050 TN7025	TT3500 TT5100	WAP30	UE6035 UH6400 US735	AC3000 AC630M	T9025 T9035	CA5535	JC215V JC325	GM25	NC330	TP3000 TP300	YBC252 YBC351	P40		GC4035 GC235	IC635	KC9140 KC9040 KC9240 KC9245 TN7035 TPC35	TT450		UE6035 UH6400 US735	AC630M	T9035	CA5535	JC325V JC450V	GM8035 GX30		TP3000 TP400	YBC351	M10		GC2015	IC9250	TN7010		WAM10	US7020	AC610M	T9015	CA6515 CA6015	JC110V	GM10		TP200		M20		GC2025	IC9250 IC9025 IC9054	KC9225 TN7015	TT2500	WAM20	US7020	AC610M AC630M	T6020 T9025	CA6525 CA6015	JC110V JC215V	GM8020	NC9020	TP200	YBM151	M30		GC2135 GC235	IC9350 IC9025	KC8050 TN8025	TT3500	WAM30	US735	AC630M	T6030		JC215V JC325V	HG8025 GM25	NC330	TP300 TP400 TP40	YBM151 YBC251	M40			IC656 IC635	KC9240 KC9245 TPC35	TT5100		US735				JC325V JC450V	GX30		TP400 TP40		K01		GC3205 GC3210	IC9150				UC5015	AC300G	T5010	CA4010	JC105V	GM3005		TK1000	YBD052	K10	KC3110	GC3205 GC3210 GC3015	IC9150 IC9015 IC4010 IC418 IC428	KC9315 KC9110 TN5015	TT1300	WAK10	UC5115	AC700G	T5010	CA4010 AC4115	JC110V	HG8010 GM8015	N305K	TK1000 TK2000	YBD102 YBD151	K20	KC3125	GC3215	IC9015		TT1500	WAK20	UC5115	AC700G	T5020	CA4120	JC110V JC215V	HG8025 GM8020	N315K	TK2000 TP200	YBD152 YBD252	铣削 Milling	P	P01															P10		IC9080 IC4100	TN2510 TN25M			ACP100				JC730U					P20		GC4020	IC520M	TN7525		WAP25	FH7020 F7030	ACP100			JC730U		T200M T250M	YBM251	P30		GC4030	IC4050	KC930M	TT7300	WAP35	F7030	AC230	T3030			NCM335	T250M T350M T25M	YBM351	P40		GC4240 GC4040		KC935M TN7535				AC230			GF30 GX2030 GX30		T350M		M01																M10				TN25M												M20			IC520M	TN7525			F7030				JC730U			T350M T25M	YBM251	M30		GC2040	IC4050	KC930M TN7535		WTP35	F7030		T3030			NCM335		T250M T25M	YBM351	M40											GF30 GX30					K01			IC9080								JC600					K10			IC4100	TN5505 TN5515		WAK15	F5010	ACK200 AC211	T1015		JC600		NCM310		YBD152	K20		GC3220 GC3020 K20D K21W		C520M DT7150		WAK25	F5020	ACK200	T1015		JC610		NCM320	T150M T200M	YBD252	K30		GC3040	IC4050	KC930M KC935M							JC610	
车削 Turning	P	P01	GC4005	IC9150	KC9105		WAP01	UE6050	AC700G	T9005	CA5505	JC110V	HC5000		TP1000 TK1000																																																																																																																																																																																																																																																																																																																																																																																																																															
		P10	KC1115	GC4015	IC9150 IC9015	KC9110 TN7005 TN7010	TT1300	WAP10	UE6050 UE6110 UE6010 UC6020 UC6010	AC700G AC2000	T9005 T9015	CA5505 CA5515	JC110V JC215V	HG8010 GM8015 GM10	NC310 NC3015	TP1000 TK1000 TP2000 TK2000	YBC152 YBC151																																																																																																																																																																																																																																																																																																																																																																																																																													
		P20	KC1115 KC1125	GC4015 GC4225 GC4025 GC2015	IC9250 IC9025 IC9054	KC9125 KC9225 TN7015	TT1500	WAP20	UE6110 UE6010 UE6020 UC6010	AC2000 AC3000	T9015 T9025	CA5515 CA5525 CA5025 CR9025	JC110V JC215V	HG8025 GM8020	NC3020	TP2000 TK2000 TP200	YBC251 YBC252																																																																																																																																																																																																																																																																																																																																																																																																																													
		P30	KC1125 KC1135	GC4225 GC4025 GC2025 GC2135	IC9350 IC656	KC8050 TN7025	TT3500 TT5100	WAP30	UE6035 UH6400 US735	AC3000 AC630M	T9025 T9035	CA5535	JC215V JC325	GM25	NC330	TP3000 TP300	YBC252 YBC351																																																																																																																																																																																																																																																																																																																																																																																																																													
		P40		GC4035 GC235	IC635	KC9140 KC9040 KC9240 KC9245 TN7035 TPC35	TT450		UE6035 UH6400 US735	AC630M	T9035	CA5535	JC325V JC450V	GM8035 GX30		TP3000 TP400	YBC351																																																																																																																																																																																																																																																																																																																																																																																																																													
		M10		GC2015	IC9250	TN7010		WAM10	US7020	AC610M	T9015	CA6515 CA6015	JC110V	GM10		TP200																																																																																																																																																																																																																																																																																																																																																																																																																														
	M20		GC2025	IC9250 IC9025 IC9054	KC9225 TN7015	TT2500	WAM20	US7020	AC610M AC630M	T6020 T9025	CA6525 CA6015	JC110V JC215V	GM8020	NC9020	TP200	YBM151																																																																																																																																																																																																																																																																																																																																																																																																																														
	M30		GC2135 GC235	IC9350 IC9025	KC8050 TN8025	TT3500	WAM30	US735	AC630M	T6030		JC215V JC325V	HG8025 GM25	NC330	TP300 TP400 TP40	YBM151 YBC251																																																																																																																																																																																																																																																																																																																																																																																																																														
	M40			IC656 IC635	KC9240 KC9245 TPC35	TT5100		US735				JC325V JC450V	GX30		TP400 TP40																																																																																																																																																																																																																																																																																																																																																																																																																															
	K01		GC3205 GC3210	IC9150				UC5015	AC300G	T5010	CA4010	JC105V	GM3005		TK1000	YBD052																																																																																																																																																																																																																																																																																																																																																																																																																														
	K10	KC3110	GC3205 GC3210 GC3015	IC9150 IC9015 IC4010 IC418 IC428	KC9315 KC9110 TN5015	TT1300	WAK10	UC5115	AC700G	T5010	CA4010 AC4115	JC110V	HG8010 GM8015	N305K	TK1000 TK2000	YBD102 YBD151																																																																																																																																																																																																																																																																																																																																																																																																																														
	K20	KC3125	GC3215	IC9015		TT1500	WAK20	UC5115	AC700G	T5020	CA4120	JC110V JC215V	HG8025 GM8020	N315K	TK2000 TP200	YBD152 YBD252																																																																																																																																																																																																																																																																																																																																																																																																																														
铣削 Milling	P	P01																																																																																																																																																																																																																																																																																																																																																																																																																																												
		P10		IC9080 IC4100	TN2510 TN25M			ACP100				JC730U																																																																																																																																																																																																																																																																																																																																																																																																																																		
		P20		GC4020	IC520M	TN7525		WAP25	FH7020 F7030	ACP100			JC730U		T200M T250M	YBM251																																																																																																																																																																																																																																																																																																																																																																																																																														
		P30		GC4030	IC4050	KC930M	TT7300	WAP35	F7030	AC230	T3030			NCM335	T250M T350M T25M	YBM351																																																																																																																																																																																																																																																																																																																																																																																																																														
		P40		GC4240 GC4040		KC935M TN7535				AC230			GF30 GX2030 GX30		T350M																																																																																																																																																																																																																																																																																																																																																																																																																															
		M01																																																																																																																																																																																																																																																																																																																																																																																																																																												
	M10				TN25M																																																																																																																																																																																																																																																																																																																																																																																																																																									
	M20			IC520M	TN7525			F7030				JC730U			T350M T25M	YBM251																																																																																																																																																																																																																																																																																																																																																																																																																														
	M30		GC2040	IC4050	KC930M TN7535		WTP35	F7030		T3030			NCM335		T250M T25M	YBM351																																																																																																																																																																																																																																																																																																																																																																																																																														
	M40											GF30 GX30																																																																																																																																																																																																																																																																																																																																																																																																																																		
	K01			IC9080								JC600																																																																																																																																																																																																																																																																																																																																																																																																																																		
	K10			IC4100	TN5505 TN5515		WAK15	F5010	ACK200 AC211	T1015		JC600		NCM310		YBD152																																																																																																																																																																																																																																																																																																																																																																																																																														
K20		GC3220 GC3020 K20D K21W		C520M DT7150		WAK25	F5020	ACK200	T1015		JC610		NCM320	T150M T200M	YBD252																																																																																																																																																																																																																																																																																																																																																																																																																															
K30		GC3040	IC4050	KC930M KC935M							JC610			T200M																																																																																																																																																																																																																																																																																																																																																																																																																																

PVD涂层刀片厂家牌号对照表
Grade table of PVD coating

加工类别 Machining Type	工件材料 Workpiece Material	分类代号 Code	各厂家牌号对照列表 Grade table of competitors and KOVES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			科维丝 KOVES	山特维克 SANDVIK	伊斯卡 ISACR	肯纳金属 KENNAMETAL	特固克 TAEGUTEK	瓦尔特 WALTER	三菱 MITSUBISHI	住友 SUMITOMO	泰珂洛 TUNGALOY	京瓷 KYOCERA	迪杰特 DIJET	日立 HITACHI	伊姆科 KORLOY	山迪 SECO	株洲钻石 ZCC.CT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			<table border="1"> <tr> <td rowspan="20">车削 Turning</td> <td rowspan="4">P</td> <td>P01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PR915 JC5003</td><td></td></tr> <tr> <td>P10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>IC507 KC5510</td><td>VP10MF</td><td>AH710 PR915 PR930</td><td>JC5003</td><td>PC200</td><td>YBG102</td></tr> <tr> <td>P20</td><td>KP2120 KTX</td><td>GC1025</td><td>IC928 IC1008 IC1028</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>KC5025</td><td>VP15TF VP20MF</td><td>AH710 AH330</td><td>PR630 PR915 PR930 PR660</td><td>JC5015</td><td>PC230</td><td>CP250</td><td>YBG202</td></tr> <tr> <td>P30</td><td>KP2130 KVX</td><td>GC1025 GC4125</td><td>IC928 IC1008 IC1028</td><td>K7010 K7020 K7235</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP15TF VP20MF</td><td>GH330 GH730 AH120 AH330 AH740</td><td>PR630 PR660</td><td>JC5015</td><td></td><td>CP500</td><td>YBG202</td></tr> <tr> <td>P40</td><td></td><td>GC1020 GC2145</td><td>IC928 IC1008 IC1028</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>K7030</td><td>VP15TF VP20MF</td><td></td><td>AH120</td><td>PR660</td><td></td><td>PC240</td><td>CP500</td><td>YBG302</td></tr> <tr> <td>M01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>EH510Z EH10Z</td><td></td><td>PR915</td><td></td><td></td><td></td><td></td></tr> <tr> <td>M10</td><td></td><td>GC1005 GC1025</td><td>IC507 IC907</td><td>KC5010 KC5510</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP10MF</td><td>EH510Z EH10Z</td><td></td><td>PR915 PR930</td><td>JC5003</td><td></td><td>CP200</td><td>YBG102</td></tr> <tr> <td>M20</td><td>KP2120 KKX</td><td>GC1020 GC1025 GC4125</td><td>IC354 IC3028</td><td>KC5025 KC730 KC5525</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP15TF VP20MF</td><td>EH520Z EH20Z</td><td>GH330 GH730</td><td>PR630 PR915 PR930</td><td>JC5015</td><td>PC9030</td><td>CP200 CP500</td><td>YBG202</td></tr> <tr> <td>M30</td><td>KP2130 KVX</td><td>GC1020 GC2035</td><td>IC908 IC1008 IC1028</td><td>KC5025 KC5525</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP15TF VP20MF</td><td></td><td>AH120</td><td>PR630 PR660</td><td>JC5015</td><td>PC9030</td><td>CP500</td><td>YBG302</td></tr> <tr> <td>M40</td><td></td><td>GC2145</td><td>IC228 IC328</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PR660</td><td></td><td></td><td></td><td></td></tr> <tr> <td>K01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>EA10Z</td><td>AH110</td><td></td><td>JC5003</td><td></td><td></td><td></td></tr> <tr> <td>K10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>EA10Z</td><td>GH110 AH110</td><td></td><td>JC5003 JC5015</td><td></td><td>PC205K</td><td>CP200</td><td>YBG102</td></tr> <tr> <td>K20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>IC928 IC1008 IC908 IC22</td><td>KC7015</td><td></td><td>VP15TF</td><td>EH20Z</td><td>AH120</td><td></td><td>JC5015</td><td>PC205K</td><td>CP200 CP250</td><td>YBG202</td></tr> <tr> <td>K30</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>IC928 IC1008 IC908 IC22</td><td>KC7225</td><td></td><td>VP15TF</td><td></td><td></td><td></td><td></td><td>CP500</td><td></td></tr> <tr> <td>S01</td><td>KP6105</td><td>GC1005</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP05RT</td><td></td><td>AH110</td><td>PR915</td><td>JC5003</td><td></td><td></td><td></td><td></td></tr> <tr> <td>S10</td><td>KP6105 KP6110</td><td>GC1005 GC1025</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP05RT VP10RT</td><td>EH510Z EH10Z</td><td>AH120</td><td>PR915</td><td>JC5015</td><td></td><td></td><td>CP200 CP250</td><td>YBG102</td></tr> <tr> <td>S20</td><td></td><td>GC4125</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP10RT VP15TF</td><td>EH20Z EH520Z</td><td></td><td>PR915</td><td></td><td></td><td></td><td>CP250 CP500</td><td></td></tr> <tr> <td>S30</td><td></td><td>GC2145</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP15TF</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="12">铣削 Milling</td> <td rowspan="6">P</td> <td>P01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>APC100</td><td></td><td></td><td>JC5003</td><td>PTH08M PAC08M TB6005 JX1005</td><td></td><td></td><td></td><td></td></tr> <tr> <td>P10</td><td>KP1210</td><td></td><td>IC903 IC950</td><td>KC715M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WXH15 WXM15</td><td></td><td>ACZ310 ACP100</td><td></td><td>PR730 PR830</td><td>JC5003 JC5030</td><td>CY9020 PCA12M TB6005 JX1020 PC20M</td><td></td><td></td><td></td><td></td></tr> <tr> <td>P20</td><td>KP1220</td><td>GC1025</td><td>IC950 IC900 IC908 IC910</td><td>KC522M KC525M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP15TF</td><td>ACZ310 ACZ330 ACZ200</td><td></td><td>PR630 PR730 PR830 PR660</td><td>JC5015 JC5030 JC5040</td><td>TB6020 CY150 JX1015</td><td>PC230</td><td>F25M</td><td>YBG202</td></tr> <tr> <td>P30</td><td>KP1230</td><td>GC1030</td><td>IC900 IC928 IC300 IC328</td><td>KC725M</td><td>TT7030 TT7070 TT9030</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WXM35</td><td>VP15TF VP30RT</td><td>ACZ300 ACZ350 ACZ200</td><td>GH330 AH330 AH120 AH740</td><td>PR630 PR660 PR730 PR830</td><td>JC5015 JC5040</td><td>TB6020 CY250 CY25 HC844 JX1045 PTH30E</td><td>PC3530 PC130</td><td>F25M F30M</td><td>YBG302</td></tr> <tr> <td>P40</td><td></td><td></td><td>IC900 IC928 IC300 IC328</td><td>KC735M</td><td>TT8020 TT8030</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WXP45</td><td>VP30RT</td><td>ACZ350 ACP300</td><td>AH120</td><td>PA660</td><td>JC5040</td><td>PTH30E TB6060 PTH40H</td><td></td><td>F40M T60M</td><td></td></tr> <tr> <td>M01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PCS08M</td><td></td><td></td><td></td></tr> <tr> <td>M10</td><td></td><td></td><td>GC1025</td><td></td><td>KC715M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PR630 PR730 PR830</td><td>JC5003</td><td>CY9020 JX1020</td><td></td><td></td><td></td></tr> <tr> <td>M20</td><td>KP2220</td><td>GC2030</td><td>IC900 IC903 IC908 IC928</td><td>KC522M KC525M</td><td>TT8020 TT9030</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP15TF VP20RT</td><td>ACZ310 EH20Z</td><td>GH330</td><td></td><td>PR630 PR730 PR830 PR660</td><td>JC5015 JC5030 JC5040</td><td>TB6020 CY150 JX1015</td><td></td><td>F25M</td><td>YBG202</td></tr> <tr> <td>M30</td><td></td><td>GC2030</td><td>IC928 IC328</td><td>KC725M KC735M</td><td>TT8030</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WXM35</td><td>VP15TF VP20RT VP30RT</td><td>ACZ330 ACZ350</td><td>AH120</td><td>PR630 PR660 PR730 PR830</td><td>JC5015 JC5030 JC5040</td><td>TB6045 CY250 HC844</td><td>PC9530</td><td>F30M F40M</td><td>YBG302</td></tr> <tr> <td>M40</td><td></td><td></td><td>IC928 IC328</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VP30RT</td><td>ACZ350 ACP300</td><td>AH140</td><td>PR660</td><td>JC5015</td><td>TB6060 PTH40H JX1060</td><td></td><td></td><td></td></tr> </table>																	车削 Turning	P	P01														PR915 JC5003		P10														IC507 KC5510	VP10MF	AH710 PR915 PR930	JC5003	PC200	YBG102	P20	KP2120 KTX	GC1025	IC928 IC1008 IC1028											KC5025	VP15TF VP20MF	AH710 AH330	PR630 PR915 PR930 PR660	JC5015	PC230	CP250	YBG202	P30	KP2130 KVX	GC1025 GC4125	IC928 IC1008 IC1028	K7010 K7020 K7235											VP15TF VP20MF	GH330 GH730 AH120 AH330 AH740	PR630 PR660	JC5015		CP500	YBG202	P40		GC1020 GC2145	IC928 IC1008 IC1028											K7030	VP15TF VP20MF		AH120	PR660		PC240	CP500	YBG302	M01																EH510Z EH10Z		PR915					M10		GC1005 GC1025	IC507 IC907	KC5010 KC5510											VP10MF	EH510Z EH10Z		PR915 PR930	JC5003		CP200	YBG102	M20	KP2120 KKX	GC1020 GC1025 GC4125	IC354 IC3028	KC5025 KC730 KC5525											VP15TF VP20MF	EH520Z EH20Z	GH330 GH730	PR630 PR915 PR930	JC5015	PC9030	CP200 CP500	YBG202	M30	KP2130 KVX	GC1020 GC2035	IC908 IC1008 IC1028	KC5025 KC5525											VP15TF VP20MF		AH120	PR630 PR660	JC5015	PC9030	CP500	YBG302	M40		GC2145	IC228 IC328																PR660					K01																	EA10Z	AH110		JC5003				K10																	EA10Z	GH110 AH110		JC5003 JC5015		PC205K	CP200	YBG102	K20																	IC928 IC1008 IC908 IC22	KC7015		VP15TF	EH20Z	AH120		JC5015	PC205K	CP200 CP250	YBG202	K30																	IC928 IC1008 IC908 IC22	KC7225		VP15TF					CP500		S01	KP6105	GC1005														VP05RT		AH110	PR915	JC5003					S10	KP6105 KP6110	GC1005 GC1025														VP05RT VP10RT	EH510Z EH10Z	AH120	PR915	JC5015			CP200 CP250	YBG102	S20		GC4125														VP10RT VP15TF	EH20Z EH520Z		PR915				CP250 CP500		S30		GC2145														VP15TF									铣削 Milling	P	P01															APC100			JC5003	PTH08M PAC08M TB6005 JX1005					P10	KP1210		IC903 IC950	KC715M										WXH15 WXM15		ACZ310 ACP100		PR730 PR830	JC5003 JC5030	CY9020 PCA12M TB6005 JX1020 PC20M					P20	KP1220	GC1025	IC950 IC900 IC908 IC910	KC522M KC525M											VP15TF	ACZ310 ACZ330 ACZ200		PR630 PR730 PR830 PR660	JC5015 JC5030 JC5040	TB6020 CY150 JX1015	PC230	F25M	YBG202	P30	KP1230	GC1030	IC900 IC928 IC300 IC328	KC725M	TT7030 TT7070 TT9030									WXM35	VP15TF VP30RT	ACZ300 ACZ350 ACZ200	GH330 AH330 AH120 AH740	PR630 PR660 PR730 PR830	JC5015 JC5040	TB6020 CY250 CY25 HC844 JX1045 PTH30E	PC3530 PC130	F25M F30M	YBG302	P40			IC900 IC928 IC300 IC328	KC735M	TT8020 TT8030									WXP45	VP30RT	ACZ350 ACP300	AH120	PA660	JC5040	PTH30E TB6060 PTH40H		F40M T60M		M01																					PCS08M				M10			GC1025		KC715M															PR630 PR730 PR830	JC5003	CY9020 JX1020				M20	KP2220	GC2030	IC900 IC903 IC908 IC928	KC522M KC525M	TT8020 TT9030										VP15TF VP20RT	ACZ310 EH20Z	GH330		PR630 PR730 PR830 PR660	JC5015 JC5030 JC5040	TB6020 CY150 JX1015		F25M	YBG202	M30		GC2030	IC928 IC328	KC725M KC735M	TT8030										WXM35	VP15TF VP20RT VP30RT	ACZ330 ACZ350	AH120	PR630 PR660 PR730 PR830	JC5015 JC5030 JC5040	TB6045 CY250 HC844	PC9530	F30M F40M	YBG302	M40			IC928 IC328														VP30RT	ACZ350 ACP300	AH140	PR660	JC5015	TB6060 PTH40H JX1060
车削 Turning	P	P01														PR915 JC5003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		P10														IC507 KC5510	VP10MF	AH710 PR915 PR930	JC5003			PC200	YBG102																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		P20	KP2120 KTX	GC1025	IC928 IC1008 IC1028											KC5025	VP15TF VP20MF	AH710 AH330	PR630 PR915 PR930 PR660			JC5015	PC230	CP250	YBG202																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		P30	KP2130 KVX	GC1025 GC4125	IC928 IC1008 IC1028	K7010 K7020 K7235											VP15TF VP20MF	GH330 GH730 AH120 AH330 AH740	PR630 PR660		JC5015		CP500	YBG202																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	P40		GC1020 GC2145	IC928 IC1008 IC1028											K7030	VP15TF VP20MF		AH120	PR660			PC240	CP500	YBG302																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	M01																EH510Z EH10Z		PR915																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	M10		GC1005 GC1025	IC507 IC907	KC5010 KC5510											VP10MF	EH510Z EH10Z		PR915 PR930		JC5003		CP200	YBG102																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	M20	KP2120 KKX	GC1020 GC1025 GC4125	IC354 IC3028	KC5025 KC730 KC5525											VP15TF VP20MF	EH520Z EH20Z	GH330 GH730	PR630 PR915 PR930		JC5015	PC9030	CP200 CP500	YBG202																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	M30	KP2130 KVX	GC1020 GC2035	IC908 IC1008 IC1028	KC5025 KC5525											VP15TF VP20MF		AH120	PR630 PR660		JC5015	PC9030	CP500	YBG302																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	M40		GC2145	IC228 IC328																	PR660																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	K01																	EA10Z	AH110			JC5003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	K10																	EA10Z	GH110 AH110			JC5003 JC5015		PC205K	CP200	YBG102																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	K20																	IC928 IC1008 IC908 IC22	KC7015			VP15TF	EH20Z	AH120		JC5015	PC205K	CP200 CP250	YBG202																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	K30																	IC928 IC1008 IC908 IC22	KC7225			VP15TF					CP500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	S01	KP6105	GC1005														VP05RT		AH110		PR915	JC5003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	S10	KP6105 KP6110	GC1005 GC1025														VP05RT VP10RT	EH510Z EH10Z	AH120		PR915	JC5015			CP200 CP250	YBG102																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	S20		GC4125														VP10RT VP15TF	EH20Z EH520Z			PR915				CP250 CP500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	S30		GC2145														VP15TF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	铣削 Milling	P	P01															APC100				JC5003	PTH08M PAC08M TB6005 JX1005																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			P10	KP1210		IC903 IC950	KC715M										WXH15 WXM15		ACZ310 ACP100		PR730 PR830	JC5003 JC5030	CY9020 PCA12M TB6005 JX1020 PC20M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P20			KP1220	GC1025	IC950 IC900 IC908 IC910	KC522M KC525M											VP15TF	ACZ310 ACZ330 ACZ200		PR630 PR730 PR830 PR660	JC5015 JC5030 JC5040	TB6020 CY150 JX1015	PC230	F25M	YBG202																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
P30			KP1230	GC1030	IC900 IC928 IC300 IC328	KC725M	TT7030 TT7070 TT9030									WXM35	VP15TF VP30RT	ACZ300 ACZ350 ACZ200	GH330 AH330 AH120 AH740	PR630 PR660 PR730 PR830	JC5015 JC5040	TB6020 CY250 CY25 HC844 JX1045 PTH30E	PC3530 PC130	F25M F30M	YBG302																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
P40					IC900 IC928 IC300 IC328	KC735M	TT8020 TT8030									WXP45	VP30RT	ACZ350 ACP300	AH120	PA660	JC5040	PTH30E TB6060 PTH40H		F40M T60M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
M01																							PCS08M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
M10				GC1025		KC715M															PR630 PR730 PR830	JC5003	CY9020 JX1020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
M20		KP2220	GC2030	IC900 IC903 IC908 IC928	KC522M KC525M	TT8020 TT9030										VP15TF VP20RT	ACZ310 EH20Z	GH330		PR630 PR730 PR830 PR660	JC5015 JC5030 JC5040	TB6020 CY150 JX1015		F25M	YBG202																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
M30			GC2030	IC928 IC328	KC725M KC735M	TT8030										WXM35	VP15TF VP20RT VP30RT	ACZ330 ACZ350	AH120	PR630 PR660 PR730 PR830	JC5015 JC5030 JC5040	TB6045 CY250 HC844	PC9530	F30M F40M	YBG302																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
M40				IC928 IC328														VP30RT	ACZ350 ACP300	AH140	PR660	JC5015	TB6060 PTH40H JX1060																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

硬质合金刀片厂家牌号对照表
Grade table of un coated carbide

加工类型 Machining Type	工件材料 Workpiece Material	分类代号 Code	各厂家牌号对照列表 Grade table of competitors and KOVES																
			科维丝 KOVES	山特维克 SANDVIK	伊斯卡 ISCAR	肯纳金属 KENNAMETAL	泰珂洛 TAEGUTEK	瓦尔特 WALTER	三菱 MITSUBISHI	住友 SUMITOMO	泰珂洛 TUNGALOY	京瓷 KYOCERA	迪乐 DUJET	日立 HITACHI	伊斯卡 KORLOY	山特维克 SECO	住友 ZCC/CT		
车削 Turning	P	P01												ST05					
		P10		SIP	IC70	P10	P10			ST10P	TX10S		SRT	WS10	ST10		YC10		
		P20		SMA	IC70 IC50M	K125M TTM	P20			UTi20t	ST20E	TX25		SRT DX30	EX35	ST20			
		P30		SM30	IC50M IC54	GK K600 TTR	P30			UTi20t	A30 A30N	TX30 UX30	PW30	SR30 DX30	EX35 EX40	ST30A			
		P40		S6	IC54	G13				ST40E	TX40			SR30 DX35	EX45		YC40		
		M10		H10A		K313	M10			EH510 U10E	TU10			UMN	WA10B	U10	890	YC10	
		M20		H13A	IC08	K68 KMF K125M TTM	M20			UTi20t	EH520 U2	TU20 UX30		DX25 UMS	EX35	U20	HX 883		
		M30		H19F SM30	IC08 IC28	K600 TTR				UTi20t	A30 A30N	UX30		DX25 UMS	EX40 EX45	ST30A		YC40	
	M40		S6	IC128	G13	M40				TU40			UM40	EX45	U40				
	K	K01		H1P		K605				UTi05t	H1 H2	TH03 KS05F	KG03	WH05	H02		YD051		
		K10		H1P H10 HM	IC20	K313 K110M THM THM-U	K10			HTi10	EH10 EH510	G1F TH10	KW10	KG10 KT9	WH10	H01	890	YD101	
		K20		H13A	IC20 IC10	K715 KMF K600	K20			UTi20t	G10E EH20 EH520	G2F KS15F G2 KS20	GW10	CR1 KG20	WH20	G10	890 HX 883	YD201	
		K30			IC10 IC28	THR				UTi20t	G10E	G3		KG30		G3	883		
		N	N01		H10 H13A		K605				H1 H2	KS05F	KG03						
			N10				K313 K110M THM THM-U	K10			HTi10	EH10 EH510	TH10 H10T		KG10 KT9		H01	890 H15	YD101
			N20		KW20		K715 KMF K600	K20				G10E EH20 EH520	KS15F		CR1 KG20		HX KX 883 H15 H25		YD201
			N30				G13 THR								KG30			H25	
		S	S01								RT9005				KG03				
			S10		H10 H10A H10F H13A		K10 K313 THM	K10			RT9005 RT9010	EH10 EH510	KS05F TH10	FZ05 KG10		H01	890	YD101	
			S20				K715 KMF				RT9010 TF15	EH20 EH520	KS15F KS20	FZ15 KG20			890 883 HX H25		
S30						G13 K600 THR				TF15				KG30					
铣削 Milling	P		P10		S1P									SRT			YC10		
		P20			IC50M IC28	K125	P10			UTi20t	A30N	TX25		SRT DX30	EX35	ST20			
		P30			IC50M IC28	GK K600	P20			UTi20t	A30N	UX30	PW30	SR30 DX30	EX35 EX40	ST30A			
		P40			IC28		P30							PW30	SR30	EX45	ST40	YC40	
	M	M10				K110M	M10							UMN		U10	YC10		
		M20				K313	M20			UTi20t	A30N			DX25 UMS	EX35	U20			
		M30			IC28	KFM K600				UTi20t	A30N	UX30		DX25 UMS	EX40 EX45		YC40		
		M40			IC28		M40					TU40			EX45	U40			
		K01								UTi05t				KG03		H01	YD051		
		K10		H1P	IC20	K110M K313	K10	WK10	HTi10	G10E	TH10	KW10	KG10	WH10	H05 H10		YD101		
K20			IC20 IC10	KFM	K20			UTi20t	G10E			KT9 CR1 KG20	WH20	G10	HX	YD201			
K30			IC20 IC28					UTi20t				KG30							

PCBN刀片厂家牌号对照表
Grade table of PCBN

工件材料 Workpiece Material	分类代号 Code	各厂家牌号对照列表 Grade table of competitors and KOVES									
		科维丝 KOVES	住友 SUMITOMO	三菱 MITSUBISHI	泰珂洛 TUNGALOY	京瓷 KYOCERA	日本特 殊陶瓷 NTK	山特维克 SANDVIK	肯纳金属 KENNA METAL	伊斯卡 ISCAR	山高 SECO
K	K01	KBN7508	NCB100 BNC500 BN7000 BN500	MB710 MB5015	BX910 BX930 BX870	KBN475 KBN60M	B30 B16	CB50 CB7525	KB1340	IB50 IB85	
	K10	KBN910 KBN900 KBN95N	BN7000 BN500	MB710. MB730 MB5015. MB4020	BX470. BX480. BX950	KBN60M KBN900	B23 B16	CB7925		IB55 IB90	CBN200. CBN300 CBN300P. CBN400C
	K20	KBN910 KBN900 KBN95N KBN800	BN7000 BNS800	MB730. MB4020 MB4120. MBS140	BX470. BX480 BXC90. BX90S	KBN900					
	K30	KBN800	BNS800	MB4120. MBS140 BC5030	BXC90 BX90S				KB5630		CBN500
S	S01	KBN7508	NCB100 BN7000	MB730 MB4020 MB4120	BX904. BX950 BX470. BX480 M714B				KB5630 KB1340	IB85 IB05S IB10S	
H	H01	KBN10N	BNC2010 BNC100 BN1000 BN2000 BNX10	BC8105 BC8110 MBC010 MB810 MB8110	BXM10 BX310	KBN05M KBN10M KBN510	B5K B52	CB7105	KB5610	IB05H IB50 IB10HC	CH0550 CBN10 CBN100 CBN060K
	H10	KBN10N KBN20N KBN25N KBN700	BNC2010 BNC2020 BNC160 BNC200 BNC2000	BC8110 BC8120 MBC020 MB8025 MB8110 MB825	BXM10 BX330 BX530	KBN05M KBN25M KBN525	B5K B6K B52 B36	CB7015 CB7115 CB20	KBH20 KB5610 KB5625	IB10H IB55 IB25HA	CBN10 CBN100 CBN150 CBN060K CBN160C
	H20	KBN20N KBN25N KBN700 KBN710 KBN750	BNC2020 BNC200 BNX20	BC8120. BC8020 MBC020 MB8025. MB8120	BXA20 BXM20 BX360	KBN30M KBN35M KBN900	B36 B40 B6K	CB7025 CB7125 CB50	KBH20 KB5625 KB5630	IB20H. IB20HC IB25H. IB25HC	CH2540 CBN150 CBN160C
	H30	KBN35N KBN610 KBN700 KBN710 KBN750	BNC300 BN350 BNX25	BC8130 MB8130 MB835	BXM20 BXA20 BXC50 BX380	KBN30M KBN35M KBN900	B40	CB7135 CB7525	KB5630	IB90	CH3515

PCD刀片厂家牌号对照表
Grade table of PCD

工件材料 Workpiece Material	分类代号 Code	各厂家牌号对照列表 Grade table of competitors and KOVES									
		科维丝 KOVES	住友 SUMITOMO	三菱 MITSUBISHI	泰珂洛 TUNGALOY	京瓷 KYOCERA	日本特 殊陶瓷 NTK	山特维克 SANDVIK	肯纳金属 KENNA METAL	伊斯卡 ISCAR	山高 SECO
N	N01	KPD01	DA1000 DA90	MD205	DX180 DX160	KPD001	PD1	CD05 CD01	KD1400	ID5	
	N10	KPD05	DA1000 DA150	MD205 MD220	DX140	KPD001 KPD010 KPD230	PD2	CD1810	KD1400 KD1425	ID5	PCD05 PCD10
	N20	KPD10	DA1000 DA2200	MD230 MD220	DX120 DX110	KPD230 KPD250	PD2		KD1400 KD1425		PCD05 PCD20
	N30	KPD25	DA1000 DA2220	MD230 MD2030	DX110				KD1400			PCD05 PCD30 PCD30N



PCBN简介和特点

PCBN硬度仅次于金刚石和PCD，晶体结构和晶间排列相似，使其具有接近金刚石的硬度和抗压强度。

用PCBN材料制作的刀片具有极高的硬度以及良好的红硬性（可耐受1400~1500°C的高温）、抗氧化性（在1200~1300°C高温下不与铁系金属发生化学反应）和抗断裂韧性，是车削加工黑色金属材料的理想刀具。相比硬质合金和陶瓷刀具，PCBN导热性极好，同样车削条件下，PCBN刀具车削温度更低。

目前PCBN刀具已在加工淬硬钢、冷硬铸铁、热喷涂材料、纯镍等难加工材料和精密加工中得到广泛应用，并取得了显著的技术经济效益。

PCBN Introduction and Features

PCBN hardness is weaker than diamond and PCD only, Because of its crystal structure and inter-crystalline arrangement, makes it closer to diamond hardness and compressive strength.

Blades made of PCBN material have extremely high hardness and good red hardness (tolerate high temperatures of 1400 to 1500°C), oxidation resistance (no chemical reaction with iron metals at temperatures of 1200 to 1300°C) and resistance Fracture toughness, It is the ideal tool for turning ferrous materials. Compared to cemented carbide and ceramic tools, PCBN has excellent thermal conductivity, and under the same turning conditions, PCBN tools have lower turning temperatures.

At present, PCBN tools have been widely used in machining hardened steels, chilled cast irons, thermal spray materials, pure nickel and other difficult to machined materials and precision machining, also it have achieved significant technical and economic benefits.



PCBN刀具

PCBN cutter

B1~B46



PCBN系列产品 PCBN series products

页码B01-B45

PCBN系列产品 PCBN series products	B
刀片编号说明 Blade Number Description	B
PCBN刀片 PCBN Inserts	B
KNR-PCBN R角立铣刀 KNR-PCBN Radius endmill	B
KNR-PCBN R角立铣刀 KNR-PCBN Radius endmill	B
KNB-PCBN 球头立铣刀 KNB-PCBN Ball endmill	B

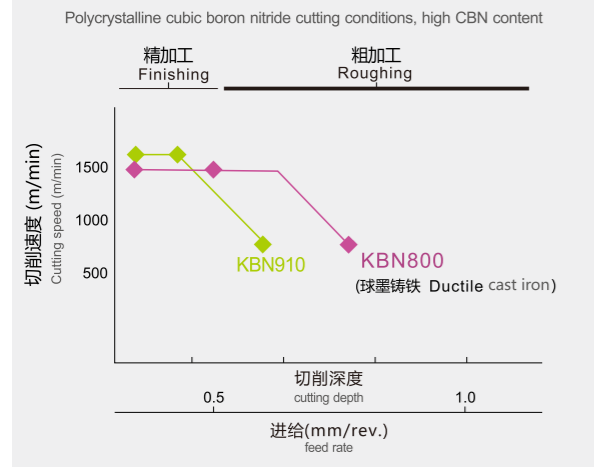
PCBN系列产品 Inserts series

■ 背侧为硬质合金 Carbide on the back side
■ 中间为硬质合金 Carbide in the middle

	类型 Type	等级 Grade	特点 Features	应用 Application
高含量 CBN High CBN content	■	KBN1000	无结合材料，纳米~亚微米级的粒子直接结合，热传导率优良。 <small>Non-binding materials, nano- to submicron grade The direct combination of particles has excellent thermal conductivity.</small>	适合加工高温合金，难加工材料 <small>Suitable for processing high temperature alloy, difficult to process materials</small>
	■	KBN900	高CBN含量、细颗粒、优秀的耐磨性与抗崩刃性 <small>High CBN content, fine granule, excellent wear resistance and chipping resistance</small>	适合加工各类铸铁和粉末金属合金 <small>Suitable for various types of cast iron and powder metal alloys</small>
	■	KBN910	高CBN含量及金属结合剂、优秀的耐磨性 <small>Suitable for processing all kinds of cast iron and powder metal alloys</small>	适合加工各类铸铁 <small>Suitable for processing all kinds of cast iron</small>
	■	KBN800	耐磨和耐热特性的结合 <small>Combination of wear and heat resistance properties</small>	适合加工非均匀质铸铁 <small>Suitable for processing non-homogeneous cast iron</small>
低含量 CBN low CBN content	■	KBN710	耐磨和抗冲击特性的结合 <small>Combination of wear and impact resistance</small>	适合重断续加工硬钢类 <small>Suitable for heavy interrupted hard steel</small>
	■	KBN7030	细颗粒CBN与陶瓷结合剂组合、优秀的韧性及抗冲击性 <small>Fine granule CBN combined with ceramic binder for excellent toughness and impact resistance</small>	适合淬火钢的中度断续及强断续加工 <small>Suitable for medium and strong intermittent processing of hardened steel</small>
	■	KBN6020	CBN与结合剂分布均匀、优秀的热稳定性及耐磨损性能 <small>The distribution of CBN and binder is uniform, Excellent thermal stability and wear resistance</small>	适合淬火钢的弱断续及中度断续加工 <small>Suitable for weak and medium intermittent processing of hardened steel</small>
	■	KBN610	耐磨和耐热特性的结合 <small>Combination of wear and heat resistance properties</small>	广泛用于连续和轻度断续加工硬钢类 <small>Widely used for continuous and light interrupted processing of hard steels</small>
	■	KBN5010	杂质得到有效控制、优秀的热稳定性及耐磨损性能 <small>Impurities are effectively controlled, Excellent thermal stability and wear resistance</small>	适合淬火钢的连续及弱断续加工 <small>Suitable for continuous and weak discontinuous machining of hardened steel</small>

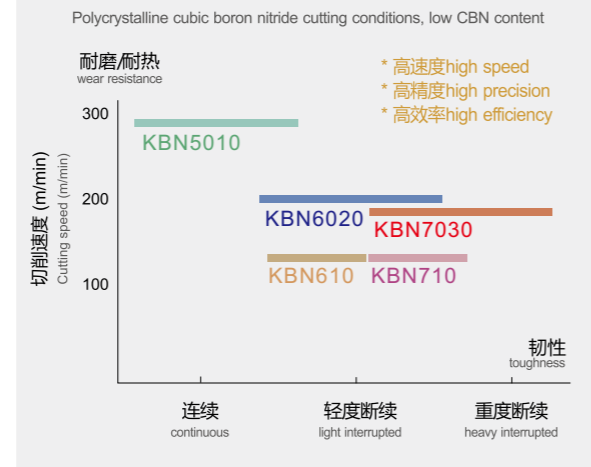
多晶立方氮化硼切削条件 高CBN含量

Cutting conditions of polycrystalline cubic boron nitride
The high content of CBN



多晶立方氮化硼切削条件 低CBN含量

Cutting conditions of polycrystalline cubic boron nitride
The high content of CBN



涂层PCBN刀片 Coating PCBN insert



■ 概要 The profile

由于采用了耐热性能优异的强韧CBN母材和特殊陶瓷涂层的组合，寿命比以往的CBN更高，并提高了加工精度。还有性价比优异的两面多角一次性刀片等应用范围广泛的产品形成系列，使用更轻松，更经济。

此外，此次扩充了涂层CBN的刀尖式样，可有效进行高精度加工和抑制毛刺。

The strong and tough CBN base material with excellent heat resistance and special ceramic coating are used. The combination of CBN, higher life than the previous, and improve the machining accuracy.

There are cost-effective double-sided multi-angle disposable blades and other applications in a wide range Product series, easier to use, more economic.

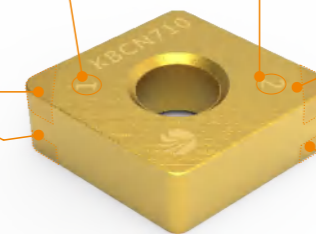
In addition, the extension of the coating CBN tip pattern can be effectively carried out High precision machining and burr control.

■ 特长 specialty

两面焊有CBN
一次性刀片更具经济性
CBN is welded on both sides
Disposable blades are more economical

刀角管理简单
所有切刃后都标有编号
Tool Angle management is simple
All the cutting edges are numbered

牢固的焊接
采用新型焊接技术，强度提高
Solid welding
Adopting new welding technology, the strength is improved



特殊陶瓷涂层+
新开发CBN母材
实现了更长的寿命
Special ceramic coating +
Newly developed CBN base material
Longer life is achieved

■ 适用领域 Applicable fields

用途 use	条件 conditions	切削速度Vc (m/min) Cutting speed				
		100	200	300	400	500
淬 火 钢 quenching The fire steel	通用 连续~弱断续 (Rz = 3.2以上)	KBCN5010	KBCN6020			
	强断续 Strong intermittent	KBCN7030				
	高精度 High precision (Rz = 1.6~3.2)	KBCN6020	KBCN610			
	高效率 High efficiency (去除渗碳层) (Remove carburizing layer)	KBCN710	KBCN610			
铸 铁 Cast Iron	球墨铸铁 Nodular cast iron					KBCN800

■ 已使用的刀角的管理 Used tool Angle management

使用前
Before using

使用后
After using

使用后刀角编号仍然清晰显示，可简单管理刀角。
涂层采用黑色，令用过的刀角鲜明可见。
Use the back Angle code is still clearly displayed, easy to manage the Angle.
will be painted in gold. The used The Angle of the knife is clearly visible.

材质介绍 Material introduction

淬火钢切削

Hardened steel cutting

硬车-优势: Hard Turning – Advantages 以车代磨 Substitution of Grinding by Turning 降低生产成本 Decreased production costs 最小化投资 Smaller investment 更高的工艺灵活性 Higher flexibility in manufacturing process 简化工艺流程 Shorter process chain 环保 Environmentally friendly	系列 涂层PCBN 未涂层PCBN	用途 有加冷却液的工况 淬火钢加工首选 要求高效加工 要求高速高精度加工 低刚性加工 不能提高切削速度时的小零件加工 在加工多样硬质粒子材料时
--	--------------------------------	---

推荐材质 The recommended material

	材质	结合材	含有率 %	粒度 μm	硬度 HV	抗折力 Gpa	特点
涂层 coating	KCBN7030	TiCN	70-75	1	34-36	1.4-1.5	在强韧的母材上加上优秀的涂层, 实现高效和长寿命 With excellent coating on strong base material, high efficiency and long life are achieved
	KCBN710	TiN	65-70	2	33-35	1.5-1.6	在强韧的母材上结合耐磨涂层, 实现加工寿命长 The strong base material is combined with wear-resistant coating to achieve long processing life
	KCBN6020	TiN	60-65	2	31-33	1.2-1.3	在淬火钢的精加工时保持稳定的高精度 Maintain stable and high precision in the finishing of hardened steel
	KCBN610	TiN	55-60	2	31-33	1.2-1.3	优秀的耐磨损性涂层, 实现稳定的加工 Excellent wear-resistant coating for stable processing
	KCBN5010	TiCN	50-55	1	30-32	1.1-1.2	提高涂层的和母材的耐磨损性, 实现优良的表面粗糙度 Improve the abrasion resistance of coating and base material to achieve excellent surface roughness
无涂层 No coating	KBN7030	TiCN	70-75	1	34-36	1.4-1.5	淬火钢通用加工, 优秀的抗崩损性和耐磨性 Hardened steel general processing, excellent resistance to breakage and wear resistance
	KBN710	TiN	65-70	2	33-35	1.5-1.6	优良的刀头强度, 适用于断续加工 Excellent blade strength, suitable for intermittent machining
	KBN6020	TiN	60-65	2	31-33	1.2-1.3	优良的耐月牙洼磨损性, 适用高效率加工 Excellent crescent depression wear resistance, suitable for high efficiency processing
	KBN610	TiN	55-60	2	31-33	1.2-1.3	通用材质, 兼备了耐磨损性 Universal material with wear resistance
	KBN5010	TiCN	50-55	1	30-32	1.1-1.2	优秀的耐磨损性, 适合高速连续加工 Excellent wear resistance, suitable for high-speed continuous machining

推荐切削条件表 Recommended Cutting Conditions

切削工况 Applications	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
		Vc(m/min)	f(mm/rev)	ap(mm)
连续切削	KBN5010	110-180-300	0.03-0.10-0.20	0.03-0.20-0.35
一般切削	KBN610	50-100-160	0.03-0.20-0.40	0.03-0.20-0.35
	KBN6020	80-160-200	0.03-0.10-0.20	0.03-0.20-0.35
断续切削	KBN710	50-100-150	0.03-0.10-0.20	0.03-0.20-0.35
	KBN7030	60-100-180	0.03-0.10-0.20	0.03-0.20-0.35

材质介绍 Material introduction

铸铁切削

Cast iron cutting

科维丝CBN刀具特点: Kevis CBN tool features:
1.立方氮化硼材料的结构属于立方结构, 分子的原子与氮原子立方结构, 原子间距小, 使得立方氮化硼非常稳定, 具有高硬度的特质, 2.立方氮化硼两种元素与铁没有亲和, 不发生反应, 3.采用高强CBN微米结合多种微量元素的刀具材料, 已形成类似于花键牛肉的超均匀分布的复合材料, 具有高硬度的同时还具有耐高温抗崩性好等, 集各种优势于一身的刀具材料。 1. The structure of cubic boron nitride material belongs to the cubic structure. The molecular atoms and nitrogen atoms have the cubic structure, and the atomic spacing is small, which makes cubic boron nitride very stable and has the characteristics of high hardness. 2. The two elements of cubic boron nitride have no affinity with iron and do not react. 3. the use of high strength CBN micron tool materials combined with a variety of trace elements, has formed similar to spline beef ultra-uniform distribution of composite materials, With high hardness, but also has good high temperature resistance and collapse resistance, etc., set a variety of advantages in a tool material.

推荐材质 The recommended material

	材质	结合材	含有率 %	粒度 μm	硬度 HV	抗折力 Gpa	特点
	The material	Combined with the material	Containing rate%	Granularity micronsum	HV hardness	Gpa bending force	The characteristics of
无涂层 No coating	KBN910	TiN	90-95	2	41-44	1.8-1.9	高硬度、高抗弯强度、高耐温性 High hardness, high bending strength, high temperature resistance
	KBN800	TiN	85-90	4	39-42	1.0-1.1	适合铸铁加工用, 耐磨损性与耐崩损性优异的材料 Suitable for cast iron processing, excellent abrasion resistance and collapse resistance material
涂层 coating	KBCN800	TiN	85-90	4	39-42	1.0-1.1	耐磨损性优良的母材和涂层, 适合加工难切削铸铁材质 Base material and coating with excellent abrasion resistance, suitable for hard cutting cast iron

推荐切削条件表 Recommended Cutting Conditions

加工类型 Workpiece Materials	工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
				Vc(m/min)	f(mm/rev)	ap(mm)
车削	灰口铸铁 Cast iron	<230	KBN910	500-2000(650)	0.1-1.0	<5.0
			KBN800	200-700	0.1-0.5	<3.0
			KBCN800	200-1000	0.1-0.5	<3.0
车削	合金铸铁 Cast iron	>200	KBN800	200-800	0.1-0.4	<3.0
			KBCN800	200-1000	0.1-0.6	<3.0
铣削	球墨铸铁 Cast iron	QT450-QT550	KBN800	80-200	0.1-0.4	<3.0
		QT600-QT700	KBCN800	150-400	0.1-0.4	<0.5
		灰口铸铁 Cast iron	HT200-HT300 (HB<200)	KBN910	800-2000	0.1-1.0	<5.0

淬火钢加工用PCBN涂层刀片

P M K N S H

PCBN coated inserts for harden quenched steel

材质 **KBCN7030/KBCN6020/KBCN5010**



致力于高精度，高效加工

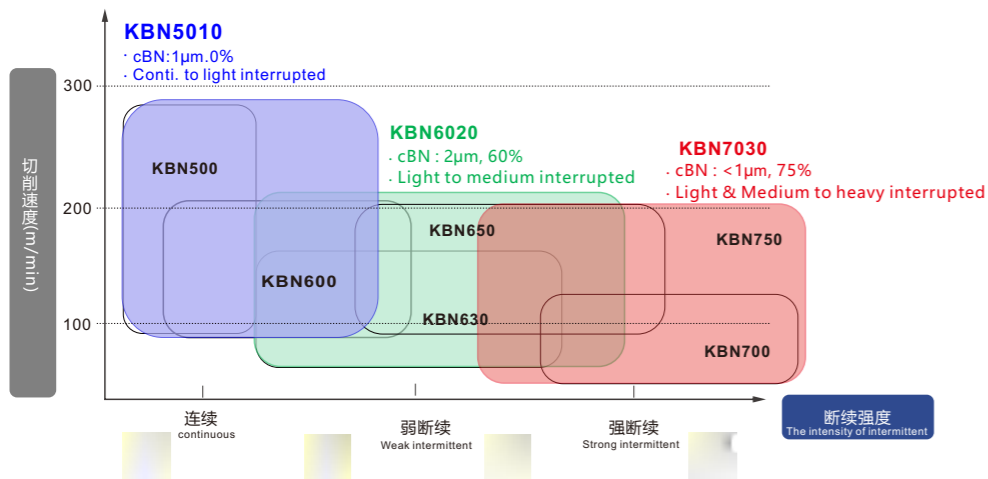
支持高精度加工，能够长时间保持优异的尺寸精度和表面粗糙度；

通过耐磨损的优异涂层，实现了CBN刀片的长寿命，发挥了优异的切削性能！

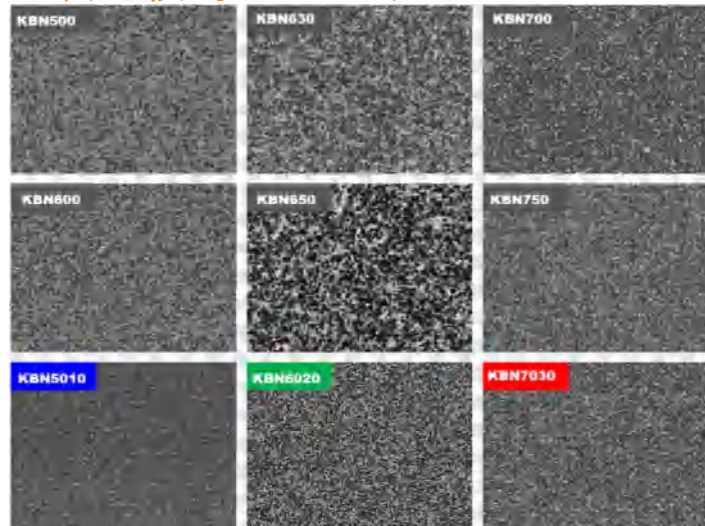
Committed to high precision, efficient processing
Support high precision machining, can maintain excellent dimensional accuracy and long time Surface roughness;
Long life of CBN blade is achieved through excellent wear-resistant coating,
Play the excellent cutting performance!

适应领域 Areas of adaptation:

耐磨损性/耐热性
Abrasion resistance/heat resistance



组织比较 Organization comparison:

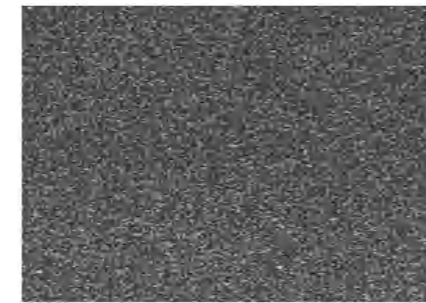


KBN5010/KBCN5010

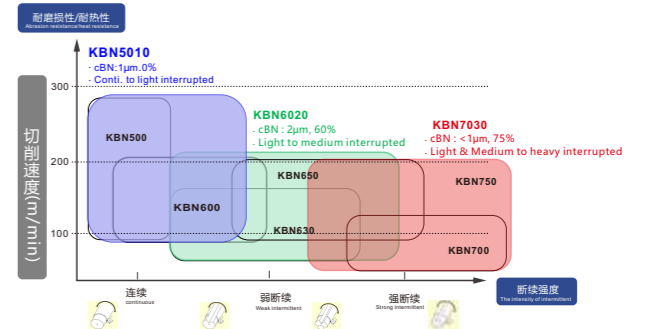
特点 Features:

Grade	Grain Size(μ)	CBN(vol.%)	Binder	Characteristics & Applications
KBN5010	<1	50	TiCN	cBN与结合剂分散均匀 & 杂质得到有效控制。 优异的热稳定性及耐磨损性能。 适用于淬火钢的连续及弱断续切割。 适合加工轴、齿轮、轴承零件等。 cBN disperse evenly with binder Impurities are effectively controlled. Excellent thermal stability and wear resistance. Suitable for continuous and weak discontinuous cutting of hardened steel. Suitable for machining shaft, gear, bearing parts, etc.

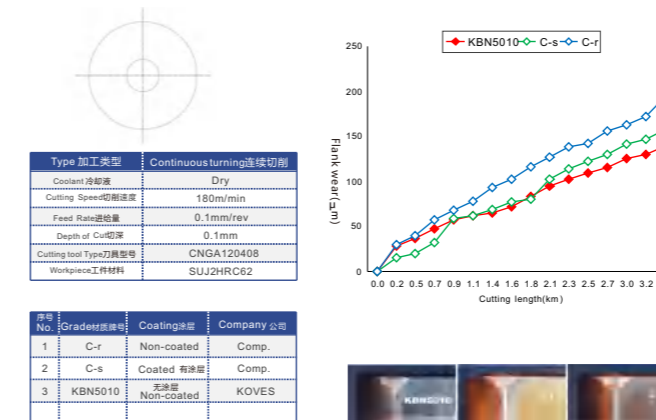
微观结构 Microstructure:



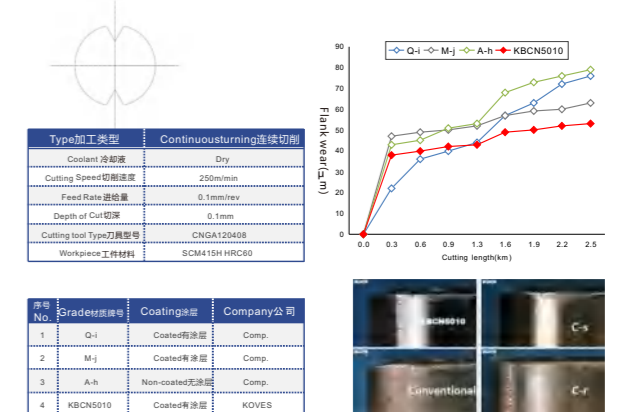
适用范围 Scope of application:



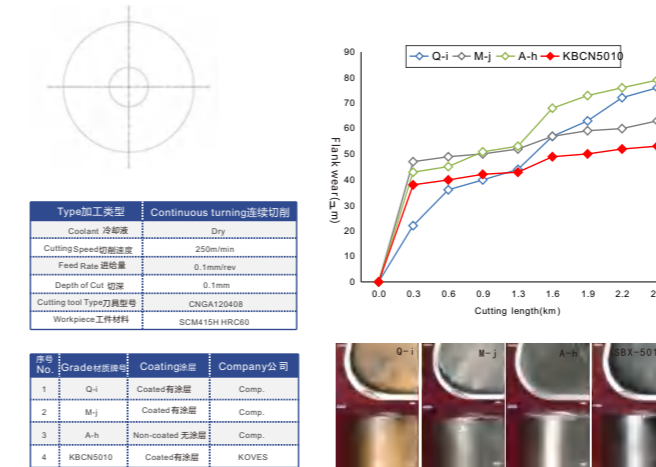
测试报告一 Test Report:



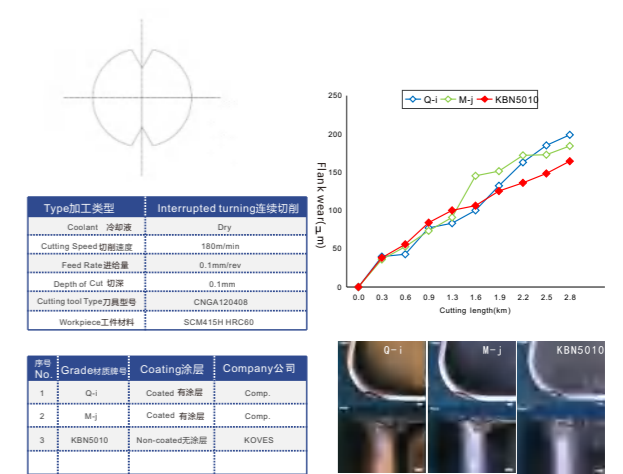
测试报告二 Test Report:



测试报告三 Test Report:



测试报告四 Test Report:

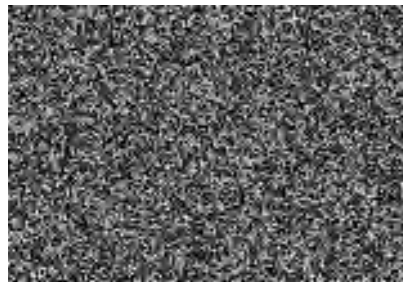


KBN6020/KBCN6020

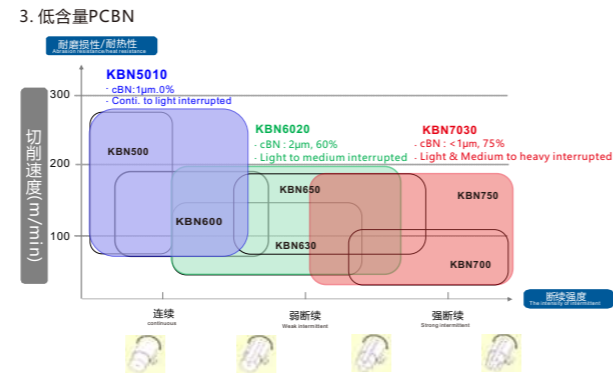
特点Features:

Grade	Grain Size (μm)	cBN (vol. %)	Binder	Characteristics & Applications
KBN6020	2	60	TiN	<p>cBN与结合剂分布均匀 & 杂质得到有效控制。 优秀的热稳定性及耐磨损性能。 适用于淬火钢的弱断续及中度断续加工。 适合加工轴、齿轮等。</p> <p>cBN and binder evenly distributed Impurities are effectively controlled. Excellent thermal stability and wear resistance. Suitable for weak and medium intermittent processing of hardened steel. Suitable for machining shaft, gear, etc.</p>

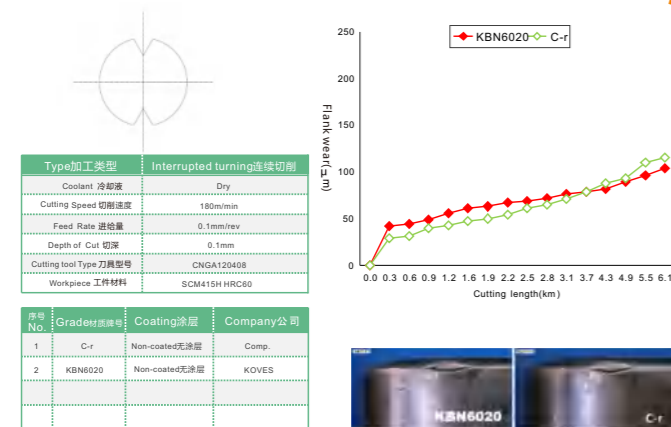
微观结构Microstructure:



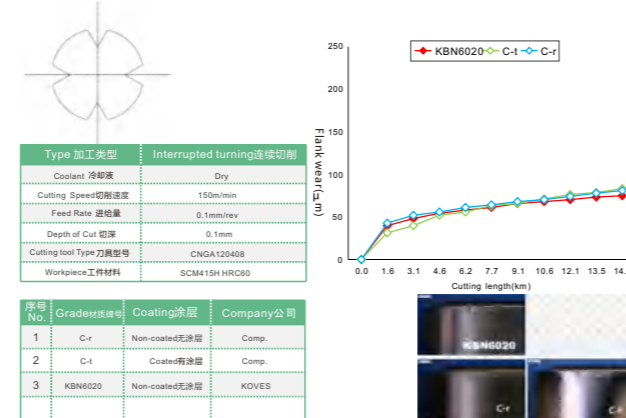
适用范围Scope of application:



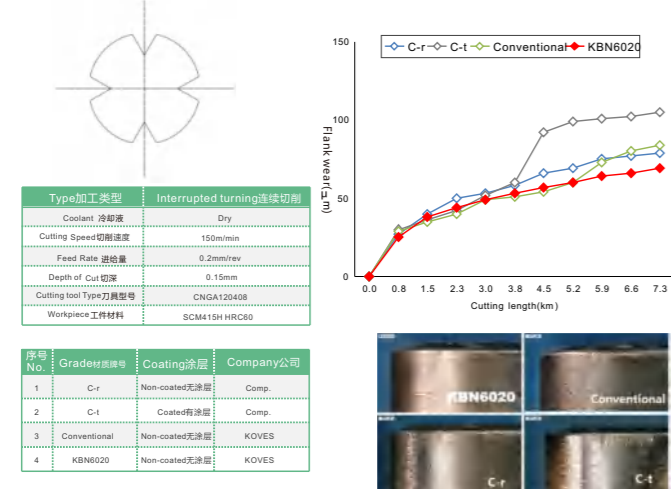
测试报告一Test Report:



测试报告二Test Report:



测试报告三Test Report:

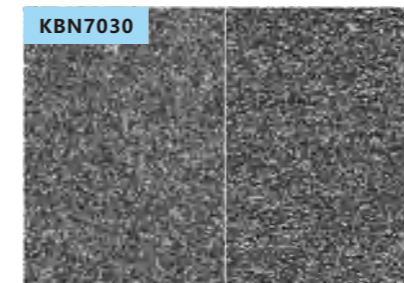


KBN7030/KBCN7030

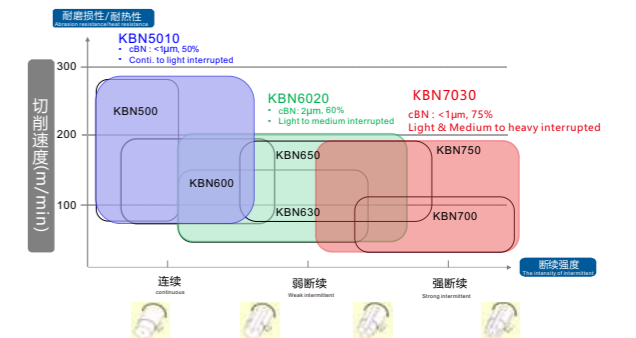
特点Features:

Grade	Grain Size (μm)	cBN (vol. %)	Characteristics & Applications
KBN7030	< 1	75	<p>精细cBN颗粒与陶瓷结合剂相结合大大提升了材料的韧性。 适用于淬火钢的中度断续及强断续加工。 适合轴及齿轮等断续加工。</p> <p>fine cBN The combination of particles and ceramic binder greatly improves the toughness of the material. Suitable for medium and strong discontinuous machining of hardened steel. Suitable for shaft and gear discontinuous processing.</p>

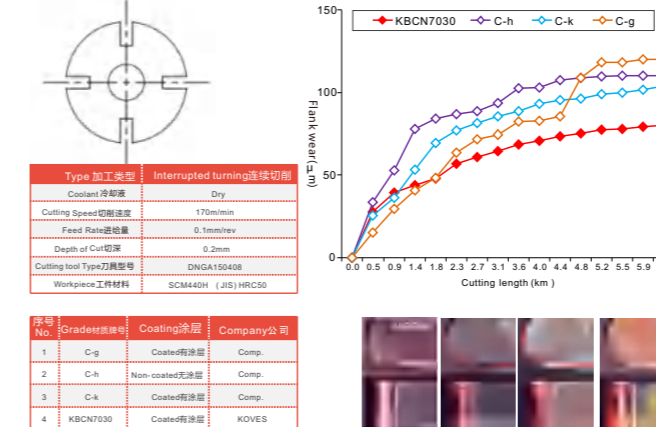
微观结构Microstructure:



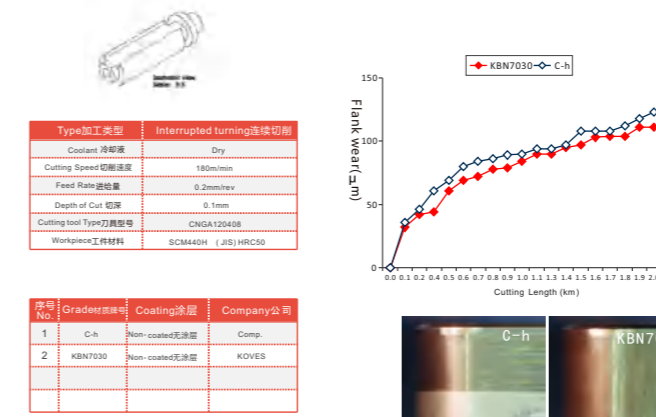
适用范围Scope of application:



测试报告一Test Report:



测试报告二Test Report:



刀片编号说明

Insert Identification System

4- 刃数 Flute/Edge	NU 1	C 2	N 3	M 4	G 5	12 6
------------------------	---------	--------	--------	--------	--------	---------

1 焊接型式 Welding type	2 刀片形状 Insert shape	3 刀片后角 Insert clearance angle	4 精度代号 Tolerance						
NU: 镶嵌式 Multi-cornered Single-use Type 	A 85° B 82° K 55°	 a A 3° B 5° C 7° D 15° E 20° F 25° G 30° N 0° P 11° O 特殊 Special	d	m	s	d=6.3/9.5/25	d=12.7	d=15.8/19.05	
	H 120°		(±mm)	(±mm)	(±mm)	•	•	•	
	L 90°		A	0.025	0.005	0.025	•	•	•
N: 贯穿式 Sandwich Type 	O 135°		C	0.025	0.013	0.025	•	•	•
	P 108°		E	0.025	0.025	0.025	•	•	•
	F: 整面式 Single Sided Type 		C 80°	F	0.013	0.005	0.025	•	•
D 55°			G	0.025	0.025	0.130	•	•	•
E 75°			H	0.013	0.013	0.025	•	•	•
无: 整体式 Solid Type 	M 86°		J	0.050	0.05	0.025	•	•	•
	V 35°		K	0.080	0.05	0.025	•	•	•
	R -		M	0.050	0.013	0.025	•	•	•
	S 90°		N	0.080	0.013	0.025	•	•	•
		T 60°	U	0.100	0.013	0.025	•	•	•
	W 80°	M	0.05	0.08	0.13	•	•	•	
		N	0.08	0.13	0.13	•	•	•	

5 切削槽及夹固形式 Chip-breaker and clamp type	
R 无中心孔 Without hole	Q 圆柱孔 + 双面倒角 40°~60° Cylindrical hole+double countersink
F 无中心孔 Without hole	C 圆柱孔 + 双面倒角 70°~90° Cylindrical hole+double countersink
N 无中心孔 Without hole	G 圆柱孔 Cylindrical hole
A 圆柱孔 Cylindrical hole	T 圆柱孔 + 单面倒角 40°~60° Cylindrical hole+ countersink
M 圆柱孔 Cylindrical hole	H 圆柱孔 + 单面倒角 70°~90° Cylindrical hole+ countersink
U 圆柱孔 + 双面倒角 40°~60° Cylindrical hole+double countersink	W 圆柱孔 + 单面倒角 40°~60° Cylindrical hole+ countersink
J 圆柱孔 + 双面倒角 70°~90° Cylindrical hole+double countersink	B 圆柱孔 + 单面倒角 70°~90° Cylindrical hole+ countersink
X 特殊设计 Special	

6 切削刃长度 Insert size							
d mm	C	D	R	S	T	V	W
5.56	05	-	-	05	09	-	03
6.0	-	-	06	-	-	-	-
6.35	06	07	-	06	11	11	04
6.65	-	-	-	-	-	-	-
7.94	07	-	-	07	-	-	-
8.0	-	-	08	-	-	-	-
9.525	09	11	-	09	16	16	06
10.0	-	-	10	-	-	-	-
12.0	-	-	12	-	-	-	-
12.7	12	15	-	12	22	22	08
15.875	16	19	-	15	27	-	10
16.0	-	-	16	-	-	-	-
16.74	-	-	-	16	-	-	-
19.05	19	-	-	19	33	-	13
20.0	-	-	20	-	-	-	-
25.4	25	-	25	25	-	-	-

04 7	04 8	S 9	02020 10	KBN 11
---------	---------	--------	-------------	-----------

7 刀片厚度 S(mm) Insert thickness	
	01 S=1.59
	T1 S=1.98
	02 S=2.38
	03 S=3.18
	T3 S=3.97
	04 S=4.76
	05 S=5.56
	06 S=6.35
	07 S=7.94
	09 S=9.52

9 刃口形式 Cutting Edge Type	
T 倒角 Chamfer	
S 倒角加倒圆 Chamfer and Honing	
WT/WS 带修光刃 Wiper Insert Type	
FA 带断屑槽型 Chip breaker Type	

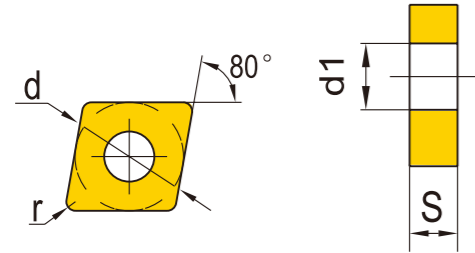
11 材质 Materials	
KBN	聚方氮化硼 PCBN Poly square boron nitride PCBN
KBCN	涂层聚方氮化硼 PCBN + Coated Coating polysquare boron nitride PCBN + Coated
KPD	聚晶金刚石 PCD Polycrystalline diamond PCD

8 刀尖圆角半径 R Corner radius	
	R (mm)
	02 0.2
	04 0.4
	05 0.5
	08 0.8
	12 1.2
	16 1.6
	20 2.0
	24 2.4
	32 3.2
圆形刀片 Round insert 00 内切圆 (英制) Inch M0 内切圆 (公制) Metric	

10 倒角形式 Chamfer type	
倒角宽度Br以1/100mm表示, 角度Rs不带“o” The chamfering width Br is expressed as 1/100mm. Angle Rs does not have "o".	
举例 Examples 0.10X20°X r0.03=0102003 0.05X20°X r0.02=0052002	

PCBN Inserts
PCBN刀片

CN..



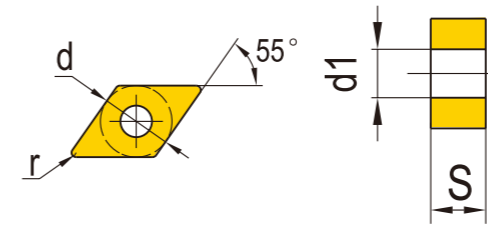
型号 Model	尺寸Size (mm)		
	d	s	d1
CN..0903..	9.525	3.18	3.18
CN..1204..	12.7	4.76	5.16
4N-CN..1206..	12.7	6.00	5.16
CN..1606..	16.1	6.35	6.35
CN..1906..	19.05	6.35	7.94
CN..2509..	25.4	9.53	9.12

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application														
			S02020	S01525	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010						
	4NU-CNGA120404	0.4	○	○				●		●									
	4NU-CNGA120408	0.8	○	○				●		●									
	4NU-CNGA120412	1.2	○	○				●		●									
	4NU-CNGA160612	1.2																	
	2NU-CNGA120404	0.4	○	○				●		●	○	○	○	○					
	2NU-CNGA120408	0.8	○	○				●		●	○	○	○	○					
	2NU-CNGA120412	1.2	○	○				●		●	○	○	○	○					
	2NU-CNGA160612	1.2																	
	1NU-CNGA120404	0.4	○	○				●											
	1NU-CNGA120408	0.8	○	○				●											
	1NU-CNGA120412	1.2	○	○				●											
	4NR-CNGA120408	0.8	○					●											
	4NR-CNGA120412	1.2	○					●											
	4NR-CNGA160612	1.2	○					●											
铸铁Cast Iron						★	★	★	★										
耐热合金Heat Resistant Alloy							☆												
淬硬钢Hardened Steel										★	★	★	★	★					

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

DN..



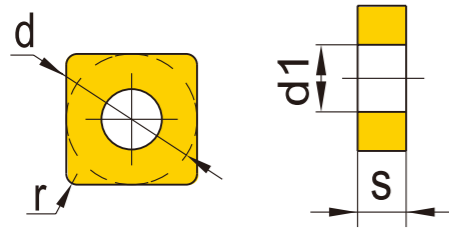
型号 Model	尺寸Size (mm)		
	d	s	d1
DN..1104..	9.525	4.76	3.81
DN..1504..	12.7	4.76	5.16
DN..1506..	12.7	6.35	5.16
4N-DN..1506	12.7	6.00	5.16

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application														
			S02020	S01525	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010						
	4NU-DNGA150404	0.4	○	○				●		●									
	4NU-DNGA150408	0.8	○	○				●		●									
	4NU-DNGA150412	1.2	○	○				●		●									
	4NU-DNGA150604	0.4	○	○				●		●									
	4NU-DNGA150608	0.8	○	○				●		●									
	2NU-DNGA150404	0.4	○	○				●		●	○	○	○	○					
	2NU-DNGA150408	0.8	○	○				●		●	○	○	○	○					
	2NU-DNGA150412	1.2	○	○				●		●	○	○	○	○					
	2NU-DNGA150604	0.4	○	○				●		●	○	○	○	○					
	1NU-DNGA150404	0.8	○	○				●		●	○	○	○	○					
	1NU-DNGA150608	0.8	○	○				●		●	○	○	○	○					
	1NU-DNGA150612	1.2	○	○				●		●	○	○	○	○					
	1NU-DNGA150604	0.4	○	○				●		●	○	○	○	○					
	4NR-DNGA150404	0.4	○					●											
	4NR-DNGA150408	0.8	○					●											
	4NR-DNGA150608	0.8	○					●											
	4NR-DNGA150604	0.8	○					●											
铸铁Cast Iron						★	★	★	★										
耐热合金Heat Resistant Alloy							☆												
淬硬钢Hardened Steel										★	★	★	★	★					

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

SN..



型号 Model	尺寸Size (mm)		
	d	s	d1
SN..1204..	12.7	4.76	5.16
SN..1506..	15.88	7.94	6.35
SN..1906..	19.05	6.35	7.94
SN..2509..	25.4	9.53	9.12

刀片外形 Insert shape	型号 Model	r	倒棱 S02020	倒棱 S01525	刀片材质及适用加工材料 Insert grades and application												
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010				
	4NU-SNGA120404	0.4	○	○			●		●								
	4NU-SNGA120408	0.8	○	○			●		●								
	4NU-SNGA120412	1.2	○	○			●		●								
	2NU-SNGA120404	0.4	○	○			●		●	○	○	○	○				
	2NU-SNGA120408	0.8	○	○			●		●	○	○	○	○				
	2NU-SNGA120412	1.2	○	○			●		●	○	○	○	○				
	1NU-SNGA120404	0.4	○	○			●		●								
	1NU-SNGA120408	0.8	○	○			●		●								
	1NU-SNGA120412	1.2	○	○			●		●								
铸铁Cast Iron					★	★	★	★									
耐热合金Heat Resistant Alloy						☆											
淬硬钢Hardened Steel									★	★	★	★	★				

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

TN..



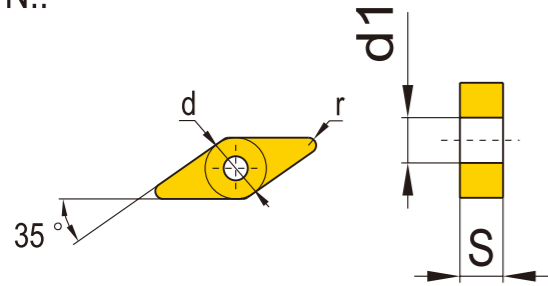
型号 Model	尺寸Size (mm)		
	d	s	d1
TN..1604..	9.525	4.76	3.81
TN..2204..	12.7	4.76	5.16
6N-TN..2206..	12.7	6.00	5.16

刀片外形 Insert shape	型号 Model	r	倒棱 S02020	倒棱 S01525	刀片材质及适用加工材料 Insert grades and application												
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010				
	6NU-TNGA160404	0.4	○	○			●		●	○	○	○	○				
	6NU-TNGA160408	0.8	○	○			●		●	○	○	○	○				
	6NU-TNGA160412	1.2	○	○			●		●	○	○	○	○				
	3NU-TNGA160404	0.4	○	○			●		●	○	○	○	○				
	3NU-TNGA160408	0.8	○	○			●		●	○	○	○	○				
	3NU-TNGA160412	1.2	○	○			●		●	○	○	○	○				
	1NU-TNGA160404	0.4	○	○			●		●								
	1NU-TNGA160408	0.8	○	○			●		●								
	1NU-TNGA160412	1.2	○	○			●		●								
6NR-TNGA160404	0.4	○				●											
6NR-TNGA160408	0.8	○				●											
6NR-TNGA220612	1.2	○				●											
铸铁Cast Iron						★	★	★	★								
耐热合金Heat Resistant Alloy							☆										
淬硬钢Hardened Steel										★	★	★	★	★			

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

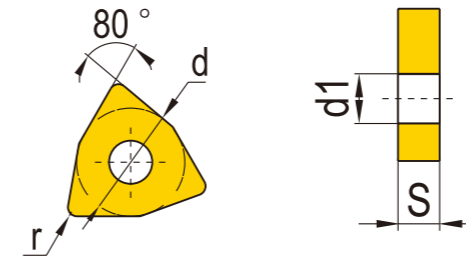
VN..



型号 Model	尺寸Size (mm)		
	d	s	d1
VN..1604..	9.525	4.76	3.81
4N-VN..1606..	9.525	6.0	3.81

PCBN Inserts
PCBN刀片

WN..



型号 Model	尺寸Size (mm)		
	d	s	d1
WN..0604..	9.525	4.76	3.81
WN..0804..	12.7	4.76	5.16
6N-WN..0806..	12.7	6.0	5.16

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application													
			S02020	S01525	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	4NU-VNGA160404	0.4	○	○			●		●	○	○	○	○					
	4NU-VNGA160408	0.8	○	○			●		●	○	○	○	○					
	4NU-VNGA160412	1.2	○	○			●		●	○	○	○	○					
	2NU-VNGA160404	0.4	○	○			●		●	○	○	○	○					
	2NU-VNGA160408	0.8	○	○			●		●	○	○	○	○					
	2NU-VNGA160412	1.2	○	○			●		●	○	○	○	○					
	1NU-VNGA160404	0.4	○	○			●		●									
	1NU-VNGA160408	0.8	○	○			●		●									
	1NU-VNGA160412	1.2	○	○			●		●									
	4NR-VNGA160404	0.4	○	○			●		●									
	4NR-VNGA160408	0.8	○	○			●		●									
	4NR-VNGA160608	1.2	○	○			●		●									
铸铁Cast Iron					★	★	★	★										
耐热合金Heat Resistant Alloy						☆												
淬硬钢Hardened Steel									★	★	★	★	★					

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

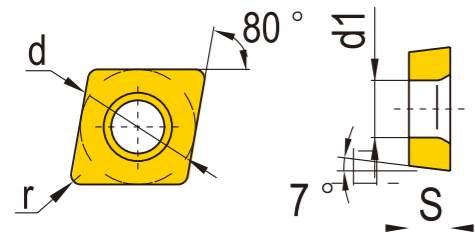
刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application													
			S02020	S01525	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	6NU-WNGA080404	0.4	○	○			●		●									
	6NU-WNGA080408	0.8	○	○			●		●									
	6NU-WNGA080412	1.2	○	○			●		●									
	3NU-WNGA080404	0.4	○	○			●		●	○	○	○	○					
	3NU-WNGA080408	0.8	○	○			●		●	○	○	○	○					
	3NU-WNGA080412	1.2	○	○			●		●	○	○	○	○					
	1NU-WNGA080404	0.4	○	○			●		●									
	1NU-WNGA080408	0.8	○	○			●		●									
	1NU-WNGA080412	1.2	○	○			●		●									
	6NR-WNGA080408	0.8	○				●		●									
	6NR-WNGA080412	1.2	○				●		●									
	6NR-WNGA080608	0.8	○				●		●									
	6NR-WNGA080612	1.2	○				●		●									
铸铁Cast Iron					★	★	★	★										
耐热合金Heat Resistant Alloy						☆												
淬硬钢Hardened Steel									★	★	★	★	★					

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

CC..



型号 Model	尺寸Size (mm)		
	d	s	d1
CC..0301..	3.5	1.4	1.9
CC..0401..	4.3	1.8	2.3
CC..0602..	6.35	2.38	2.8
CC..09T3..	9.525	3.97	4.4
CC..1204..	12.7	4.76	5.5

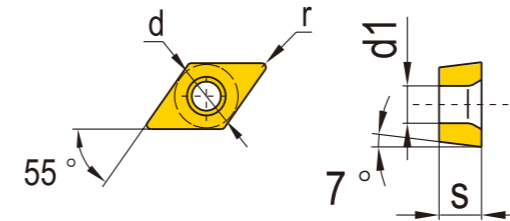
刀片外形 Insert shape	型号 Model	r	倒棱 S01020 S01025		刀片材质及适用加工材料 Insert grades and application									
			KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010			
	2NU-CCGW060202	0.2	○	○			●		●	○	○	○	○	
	2NU-CCGW060204	0.4	○	○			●		●	○	○	○	○	
	2NU-CCGW060208	0.8	○	○			●		●	○	○	○	○	
	2NU-CCGW09T302	0.2	○	○			●		●	○	○	○	○	
	2NU-CCGW09T304	0.4	○	○			●		●	○	○	○	○	
	2NU-CCGW09T308	0.8	○	○			●		●	○	○	○	○	
	1NU-CCGW030102	0.2	○	○			●		●					
	1NU-CCGW030104	0.4	○	○			●		●					
	1NU-CCGW040102	0.2	○	○			●		●					
	1NU-CCGW040104	0.4	○	○			●		●					
	1NU-CCGW060202	0.2	○	○			●		●					
	1NU-CCGW060204	0.4	○	○			●		●					
	1NU-CCGW060208	0.8	○	○			●		●					
	1NU-CCGW09T302	0.2	○	○			●		●					
	1NU-CCGW09T304	0.4	○	○			●		●					
	1NU-CCGW09T308	0.8	○	○			●		●					
	T2NU-CCGW060202	0.2	○	○			●	●	●					
	T2NU-CCGW060204	0.4	○	○			●	●	●					
	T2NU-CCGW060208	0.8	○	○			●	●	●					
	T2NU-CCGW09T302	0.2	○	○			●	●	●					
	T2NU-CCGW09T304	0.4	○	○			●	●	●					
	T2NU-CCGW09T308	0.8	○	○			●	●	●					
铸铁Cast Iron					★	★	★	★						
耐热合金Heat Resistant Alloy						☆								
淬硬钢Hardened Steel									★	★	★	★	★	

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

DC..



型号 Model	尺寸Size (mm)		
	d	s	d1
DC..0702..	6.35	2.38	2.8
DC..11T3..	9.525	3.97	4.4

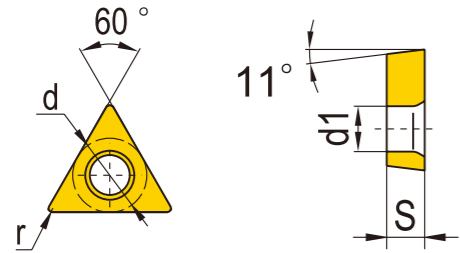
刀片外形 Insert shape	型号 Model	r	倒棱 S01020 S01025		刀片材质及适用加工材料 Insert grades and application									
			KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010			
	2NU-DCGW070202	0.2	○	○			●		●	○	○	○	○	
	2NU-DCGW070204	0.4	○	○			●		●	○	○	○	○	
	2NU-DCGW070208	0.8	○	○			●		●	○	○	○	○	
	2NU-DCGW11T302	0.2	○	○			●		●	○	○	○	○	
	2NU-DCGW11T304	0.4	○	○			●		●	○	○	○	○	
	2NU-DCGW11T308	0.8	○	○			●		●	○	○	○	○	
	1NU-DCGW070202	0.2	○	○			●		●					
	1NU-DCGW070204	0.4	○	○			●		●					
	1NU-DCGW070208	0.8	○	○			●		●					
	1NU-DCGW11T302	0.2	○	○			●		●					
	1NU-DCGW11T304	0.4	○	○			●		●					
	1NU-DCGW11T308	0.8	○	○			●		●					
铸铁Cast Iron					★	★	★	★						
耐热合金Heat Resistant Alloy						☆								
淬硬钢Hardened Steel									★	★	★	★	★	

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

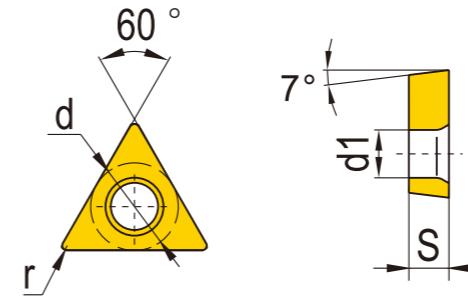
TB../TP..



型号 Model	尺寸Size (mm)		
	d	s	d1
TB..0601..	3.97	1.59	2.3
TP..0802..	4.76	2.38	2.3
TP..0902..	5.56	2.38	3.0
TP..1102..	6.35	2.38	3.5
TP..1103..	6.35	3.18	3.5
TP..16T3..	9.525	3.18	4.5

PCBN Inserts
PCBN刀片

TC..



型号 Model	尺寸Size (mm)		
	d	s	d1
TC..0902..	5.56	2.38	2.5
TC..1102..	6.35	2.38	2.8
TC..1103..	6.35	3.18	2.8

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 S01020	倒棱 S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010
	3NU-TPGW080202	0.2	○	○			●		●	○	○	○	○
	3NU-TPGW080204	0.4	○	○			●		●	○	○	○	○
	3NU-TPGW090202	0.2	○	○			●		●	○	○	○	○
	3NU-TPGW090204	0.4	○	○			●		●	○	○	○	○
	3NU-TPGW110302	0.2	○	○			●		●	○	○	○	○
	3NU-TPGW110304	0.4	○	○			●		●	○	○	○	○
	3NU-TPGW16T302	0.2	○	○			●		●	○	○	○	○
	3NU-TPGW16T304	0.4	○	○			●		●	○	○	○	○
3NU-TPGW16T308	0.8	○	○			●		●	○	○	○	○	
	1NU-TBGW060102	0.2	○	○			●		●	○	○	○	○
	1NU-TBGW060104	0.4	○	○			●		●	○	○	○	○
	1NU-TPGW080202	0.2	○	○			●		●	○	○	○	○
	1NU-TPGW080204	0.4	○	○			●		●	○	○	○	○
	1NU-TPGW090202	0.2	○	○			●		●	○	○	○	○
	1NU-TPGW090204	0.4	○	○			●		●	○	○	○	○
	1NU-TPGW110302	0.2	○	○			●		●	○	○	○	○
	1NU-TPGW110304	0.4	○	○			●		●	○	○	○	○
1NU-TPGW16T302	0.2	○	○			●		●	○	○	○	○	
1NU-TPGW16T304	0.4	○	○			●		●	○	○	○	○	
1NU-TPGW16T308	0.8	○	○			●		●	○	○	○	○	
	T3NU-TPGW080202	0.2	○	○			●	●	●	○	○	○	○
	T3NU-TPGW080204	0.4	○	○			●	●	●	○	○	○	○
	T3NU-TPGW090202	0.2	○	○			●	●	●	○	○	○	○
	T3NU-TPGW090204	0.4	○	○			●	●	●	○	○	○	○
	T3NU-TPGW110302	0.2	○	○			●	●	●	○	○	○	○
	T3NU-TPGW110304	0.4	○	○			●	●	●	○	○	○	○
铸铁Cast Iron			★	★	★	★							
耐热合金Heat Resistant Alloy				☆									
淬硬钢Hardened Steel					★	★	★	★	★	★	★	★	★

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

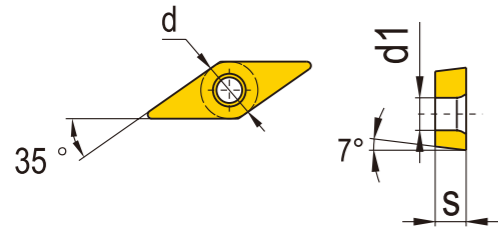
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 S01020	倒棱 S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010
	3NU-TCGW090202	0.2	○	○			●		●	○	○	○	○
	3NU-TCGW090204	0.4	○	○			●		●	○	○	○	○
	3NU-TCGW090208	0.8	○	○			●		●	○	○	○	○
	3NU-TCGW110202	0.2	○	○			●		●	○	○	○	○
	3NU-TCGW110204	0.4	○	○			●		●	○	○	○	○
	3NU-TCGW110208	0.8	○	○			●		●	○	○	○	○
	3NU-TCGW110302	0.2	○	○			●		●	○	○	○	○
	3NU-TCGW110304	0.4	○	○			●		●	○	○	○	○
3NU-TCGW110308	0.8	○	○			●		●	○	○	○	○	
	1NU-TCGW090202	0.2	○	○			●		●	○	○	○	○
	1NU-TCGW090204	0.4	○	○			●		●	○	○	○	○
	1NU-TCGW090208	0.8	○	○			●		●	○	○	○	○
	1NU-TCGW110202	0.2	○	○			●		●	○	○	○	○
	1NU-TCGW110204	0.4	○	○			●		●	○	○	○	○
	1NU-TCGW110208	0.8	○	○			●		●	○	○	○	○
	1NU-TCGW110302	0.2	○	○			●		●	○	○	○	○
	1NU-TCGW110304	0.4	○	○			●		●	○	○	○	○
1NU-TCGW110308	0.8	○	○			●		●	○	○	○	○	
	T3NU-TCGW090202	0.8	○	○			●	●	●	○	○	○	○
	T3NU-TCGW090204	0.8	○	○			●	●	●	○	○	○	○
	T3NU-TCGW090208	0.8	○	○			●	●	●	○	○	○	○
	T3NU-TCGW110202	0.2	○	○			●	●	●	○	○	○	○
	T3NU-TCGW110204	0.4	○	○			●	●	●	○	○	○	○
	T3NU-TCGW110208	0.8	○	○			●	●	●	○	○	○	○
T3NU-TCGW110302	0.2	○	○			●	●	●	○	○	○	○	
T3NU-TCGW110304	0.4	○	○			●	●	●	○	○	○	○	
T3NU-TCGW110308	0.8	○	○			●	●	●	○	○	○	○	
铸铁Cast Iron			★	★	★	★							
耐热合金Heat Resistant Alloy				☆									
淬硬钢Hardened Steel					★	★	★	★	★	★	★	★	★

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

VC..



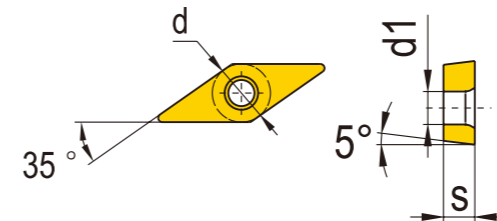
型号 Model	尺寸Size (mm)		
	d	s	d1
VC..1103..	6.35	3.18	2.8
VC..1604..	9.525	4.76	4.4

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application													
			S01020	S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	2NU-VCGW110302	0.2	○	○			●		●	○	○	○	○					
	2NU-VCGW110304	0.4	○	○			●		●	○	○	○	○					
	2NU-VCGW110308	0.8	○	○			●		●	○	○	○	○					
	2NU-VCGW160402	0.2	○	○			●		●	○	○	○	○					
	2NU-VCGW160404	0.4	○	○			●		●	○	○	○	○					
	2NU-VCGW160408	0.8	○	○			●		●	○	○	○	○					
	1NU-VCGW110302	0.2	○	○			●		●									
	1NU-VCGW110304	0.4	○	○			●		●									
	1NU-VCGW110308	0.8	○	○			●		●									
	1NU-VCGW160402	0.2	○	○			●		●									
	1NU-VCGW160404	0.4	○	○			●		●									
	1NU-VCGW160408	0.8	○	○			●		●									
铸铁Cast Iron					★	★	★	★										
耐热合金Heat Resistant Alloy						☆												
淬硬钢Hardened Steel									★	★	★	★	★					

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

VB..



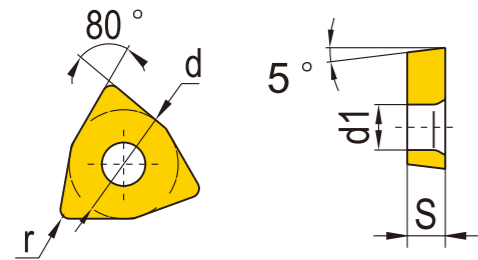
型号 Model	尺寸Size (mm)		
	d	s	d1
VB..1103..	6.35	3.18	2.8
VB..1604..	9.525	4.76	4.4

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application													
			S01020	S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	2NU-VBGW110302	0.2	○	○			●		●	○	○	○	○					
	2NU-VBGW110304	0.4	○	○			●		●	○	○	○	○					
	2NU-VBGW110308	0.8	○	○			●		●	○	○	○	○					
	2NU-VBGW160402	0.2	○	○			●		●	○	○	○	○					
	2NU-VBGW160404	0.4	○	○			●		●	○	○	○	○					
	2NU-VBGW160408	0.8	○	○			●		●	○	○	○	○					
	1NU-VBGW110302	0.2	○	○			●		●									
	1NU-VBGW110304	0.4	○	○			●		●									
	1NU-VBGW110308	0.8	○	○			●		●									
	1NU-VBGW160402	0.2	○	○			●		●									
	1NU-VBGW160404	0.4	○	○			●		●									
	1NU-VBGW160408	0.8	○	○			●		●									
铸铁Cast Iron					★	★	★	★										
耐热合金Heat Resistant Alloy						☆												
淬硬钢Hardened Steel									★	★	★	★	★					

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

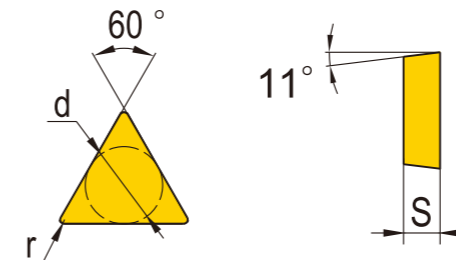
WB..



型号 Model	尺寸Size (mm)		
	d	s	d1
WB..0601..	3.97	1.59	2.3

PCBN Inserts
PCBN刀片

TBGN../TPGN..



型号 Model	尺寸Size (mm)	
	d	s
TB..0601	3.97	1.59
TP..0902..	5.56	2.38
TP..1103..	6.35	3.18
TP..1603..	9.525	3.18

刀片外形 Insert shape	型号 Model	r	倒棱 S01020 S01025		刀片材质及适用加工材料 Insert grades and application									
			KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010			
	WBGW060102	0.2	○	○			●		●	○	○	○	○	
	WBGW060104	0.4	○	○			●		●	○	○	○	○	
铸铁Cast Iron					★	★	★	★						
耐热合金Heat Resistant Alloy						☆								
淬硬钢Hardened Steel									★	★	★	★	★	★

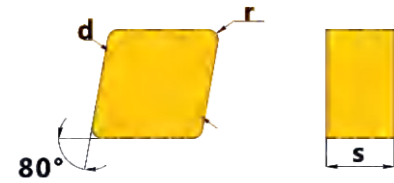
★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

刀片外形 Insert shape	型号 Model	r	倒棱 S01020 S01025		刀片材质及适用加工材料 Insert grades and application									
			KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010			
	TBGN060102	0.2	○	○			●		●					
	TBGN060104	0.4	○	○			●		●					
	TPGN090204	0.4	○	○			●		●					
	TPGN090208	0.8	○	○			●		●					
	TPGN110302	0.2	○	○			●		●					
	TPGN110304	0.4	○	○			●		●					
	TPGN110308	0.8	○	○			●		●					
	TPGN160302	0.2	○	○			●		●					
	TPGN160304	0.4	○	○			●		●					
	TPGN160308	0.8	○	○			●		●					
	1FN-TBGN060102	0.2	○	○			●		●					
	1FN-TBGN060104	0.4	○	○			●		●					
	1FN-TPGN090204	0.4	○	○			●		●					
	1FN-TPGN090208	0.8	○	○			●		●					
	1FN-TPGN110302	0.2	○	○			●		●					
	1FN-TPGN110304	0.4	○	○			●		●					
	1FN-TPGN110308	0.8	○	○			●		●					
	1FN-TPGN160302	0.2	○	○			●		●					
1FN-TPGN160304	0.4	○	○			●		●						
1FN-TPGN160308	0.8	○	○			●		●						
铸铁Cast Iron							★	★	★	★				
耐热合金Heat Resistant Alloy								☆						
淬硬钢Hardened Steel										★	★	★	★	★

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

CNGN..



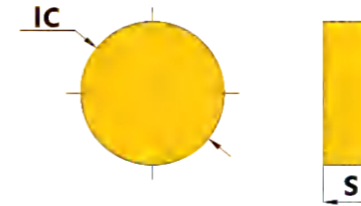
型号 Model	尺寸Size (mm)	
	IC	S
2FN-CNGN1204	12.7	4.76
2FN-CNGN1206	12.7	6.35

刀片外形 Insert shape	型号 Model	r	刀片材质及适用加工材料 Insert grades and application											
			倒棱 S02020	倒棱 S05020	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010	
	2FN-CNGN120408	0.8	○	○			●		●					
	2FN-CNGN120412	1.2	○	○			●		●					
	2FN-CNGN120608	0.8	○	○			●		●					
	2FN-CNGN120612	1.2	○	○			●		●					
铸铁Cast Iron					★	★	★	★						
耐热合金Heat Resistant Alloy						☆								
淬硬钢Hardened Steel									★	★	★	★	★	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

RNGN..



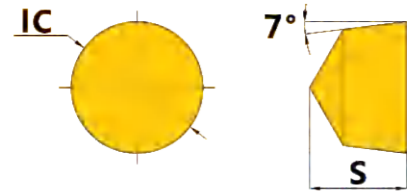
型号 Model	尺寸Size (mm)	
	IC	S
2FN-RNGN0904	9	4.76
2FN-RNGN1204	12	4.76

刀片外形 Insert shape	型号 Model	r	刀片材质及适用加工材料 Insert grades and application											
			倒棱 S02020	倒棱 S05020	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010	
	2FN-RNGN0904	4.5	○	○			●		●					
	2FN-RNGN1204	6.0	○	○			●		●					
铸铁Cast Iron					★	★	★	★						
耐热合金Heat Resistant Alloy						☆								
淬硬钢Hardened Steel									★	★	★	★	★	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

RCGX..



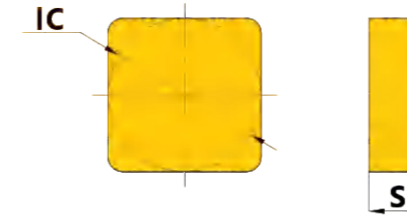
型号 Model	尺寸Size (mm)	
	IC	S
FN-RCGX0907	9.525	7.0
FN-RCGX1207	12.7	7.0

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application										
			S02020	S05020	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010		
	FN-RCGX0907Y	4.5	○	○			●		●						
	FN-RCGX1207Y	6.0	○	○			●		●						
	FN-RCGX0907V	4.5	○	○			●		●						
	FN-RCGX1207V	6.0	○	○			●		●						
铸铁Cast Iron ★ 耐热合金Heat Resistant Alloy ☆ 淬硬钢Hardened Steel ★					★	★	★	★							

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

SNGN..



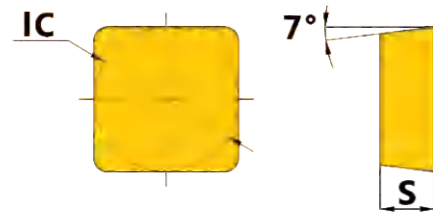
型号 Model	尺寸Size (mm)	
	IC	S
2FN-SNGN0904	9.525	4.76
2FN-SNGN1204	12.7	4.76
2FN-SNGN1206	12.7	6.0

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application										
			S02020	S05020	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010		
	2FN-SNGN090408	0.8	○	○			●		●						
	2FN-SNGN090412	1.2	○	○			●		●						
	2FN-SNGN120408	0.8	○	○			●		●						
	2FN-SNGN120412	1.2	○	○			●		●						
	2FN-SNGN120608	0.8	○	○			●		●						
	2FN-SNGN120612	1.2	○	○			●		●						
铸铁Cast Iron ★ 耐热合金Heat Resistant Alloy ☆ 淬硬钢Hardened Steel ★					★	★	★	★							

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

SCGN..



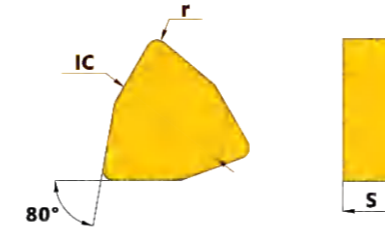
型号 Model	尺寸Size (mm)	
	IC	S
FN-SCGN0904	9.525	4.76
FN-SCGN1204	12.7	4.76

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application											
			S02020	S05020	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010			
	1FN-SCGN090408	0.8	○	○			●		●							
	1FN-SCGN090408ZZ	0.8	○	○			●		●							
	1FN-SCGN090412	1.2	○	○			●		●							
	1FN-SCGN090412ZZ	1.2	○	○			●		●							
	1FN-SCGN120408	0.8	○	○			●		●							
	1FN-SCGN120408ZZ	0.8	○	○			●		●							
	1FN-SCGN120412	1.2	○	○			●		●							
	1FN-SCGN120412ZZ	1.2	○	○			●		●							
铸铁Cast Iron					★	★	★	★								
耐热合金Heat Resistant Alloy						☆										
淬硬钢Hardened Steel									★	★	★	★	★			

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

WNGN..



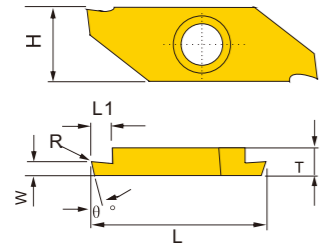
型号 Model	尺寸Size (mm)	
	IC	S
2FN-WNGN0804	12.7	4.76
2FN-WNGN0806	12.7	6.35

刀片外形 Insert shape	型号 Model	r	倒棱		刀片材质及适用加工材料 Insert grades and application											
			S02020	S05020	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010			
	2FN-WNGN080408	0.8	○	○			●		●							
	2FN-WNGN080412	1.2	○	○			●		●							
	2FN-WNGN080608	0.8	○	○			●		●							
	2FN-WNGN080612	1.2	○	○			●		●							
铸铁Cast Iron							★	★	★	★						
耐热合金Heat Resistant Alloy								☆								
淬硬钢Hardened Steel											★	★	★	★	★	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

KTPR/L..



型号 Model	尺寸Size (mm)		
	d	T	d1
KTPR..	12.7	4.76	5.5

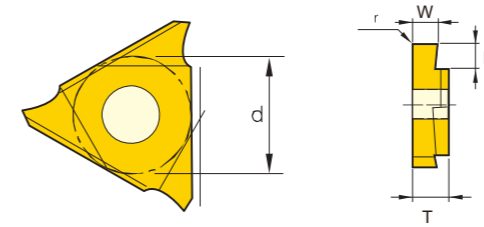
刀片外形 Insert shape	型号 Model	W	B	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application												
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010				
	KTPR/L 100	1.00	2.0	○			●		●	○	○						
	KTPR/L 150	1.50	3.5	○			●		●	○	○						
	KTPR/L 200	2.00	3.5	○			●		●	○	○						
铸铁Cast Iron					★	★	★	★									
耐热合金Heat Resistant Alloy						☆											
淬硬钢Hardened Steel									★	★	★	★	★	★	★	★	★

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

GBA43R/L..



型号 Model	尺寸Size (mm)		
	d	T	d1
GBA43..	12.7	4.76	5.5

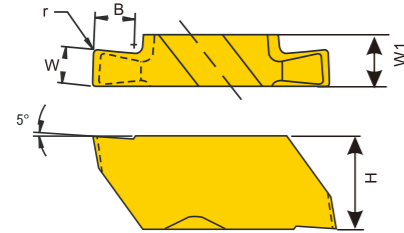
刀片外形 Insert shape	型号 Model	W	B	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application												
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010				
	GBA43R/L 125	1.25	2.0	○			●		●	○	○						
	GBA43R/L 150	1.50	3.5	○			●		●	○	○						
	GBA43R/L 200	2.00	3.5	○			●		●	○	○						
	GBA43R/L 250	2.50	4.0	○			●		●	○	○						
	GBA43R/L 300	3.00	4.0	○			●		●	○	○						
铸铁Cast Iron					★	★	★	★									
耐热合金Heat Resistant Alloy						☆											
淬硬钢Hardened Steel									★	★	★	★	★	★	★	★	★

★ 首选Preferred ☆ 可选optional

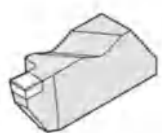
● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

NS



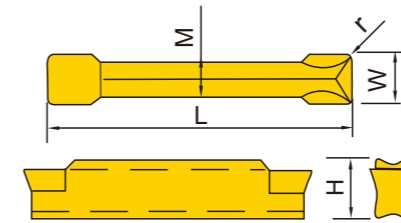
型号 Model	尺寸Size (mm)	
	W1	H
NS3..	4.95	8.74

刀片外形 Insert shape	型号 Model	W	B	刀片材质及适用加工材料 Insert grades and application														
				倒棱 S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	NS3125R	1.25	2.0	○			●		●	○								
	NS3150R	1.50	3.5	○			●		●	○								
	NS3200R	2.00	3.5	○			●		●	○								
	NS3250R	2.50	4.0	○			●		●	○								
	NS3300R	3.00	4.0	○			●		●	○								
	NS3350R	3.50	6.0	○			●		●	○								
	NS3400R	4.00	6.0	○			●		●	○								
	NS3450R	4.50	8.0	○			●		●	○								
	NS3500R	5.00	8.0	○			●		●	○								
	NS3125L	1.25	2.0	○			●		●	○								
NS3150L	1.50	3.5	○			●		●	○									
NS3200L	2.00	3.5	○			●		●	○									
NS3250L	2.50	4.0	○			●		●	○									
NS3300L	3.00	4.0	○			●		●	○									
NS3350L	3.50	6.0	○			●		●	○									
NS3400L	4.00	6.0	○			●		●	○									
NS3450L	4.50	8.0	○			●		●	○									
NS3500L	5.00	8.0	○			●		●	○									
铸铁Cast Iron				★	★	★	★											
耐热合金Heat Resistant Alloy					☆													
淬硬钢Hardened Steel								★	★	★	★	★						


★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

WD..



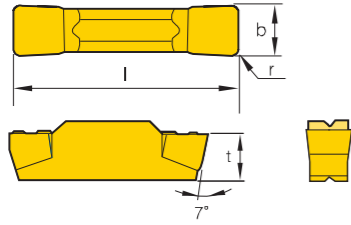
型号 Model	尺寸Size (mm)	
	L	H
WD22..	22	4.0
WD25..	25	4.0

刀片外形 Insert shape	型号 Model	W	r	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application													
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	WD22N2.00S	2.00	0.2	○			●		●	○								
	WD22N3.00S	3.00	0.4	○			●		●	○								
	WD25N4.00S	4.00	0.4	○			●		●	○								
	WD25N5.00S	5.00	0.4	○			●		●	○								
	WD25N6.00S	6.00	0.4	○			●		●	○								
铸铁Cast Iron							★	★	★	★								
耐热合金Heat Resistant Alloy								☆										
淬硬钢Hardened Steel											★	★	★	★	★			

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

MGGN..



型号 Model	尺寸Size (mm)			
	b	r	t	l
MGGN150	1.5	0.15	4.8	16.0
MGGN200	2.0	0.20	4.8	16.0
MGGN250	2.5	0.20	4.8	18.5
MGGN300	3.0	0.40	4.8	21.0
MGGN400	4.0	0.40	4.8	21.0

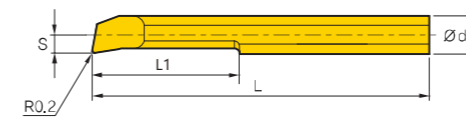
刀片外形 Insert shape	型号 Model	W	r	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application										
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010		
	MGGN150-V	1.5	0.2	○			●		●	○					
	MGGN200-V	2.0	0.2	○			●		●	○					
	MGGN250-V	2.5	0.2	○			●		●	○					
	MGGN300-V	3.0	0.4	○			●		●	○					
	MGGN400-V	4.0	0.4	○			●		●	○					
铸铁Cast Iron		★ ★ ★ ★													
耐热合金Heat Resistant Alloy		☆													
淬硬钢Hardened Steel		★ ★ ★ ★ ★													

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

PSBR..



型号 Model	尺寸Size (mm)			
	d	L	L1	S
PSBR0303-50	2.8	50	25	1.4
PSBR0404-60	3.8	60	30	1.9
PSBR0505-70	4.8	70	40	2.4
PSBR0606-70	5.8	70	45	2.9
PSBR0707-80	6.8	80	60	3.4

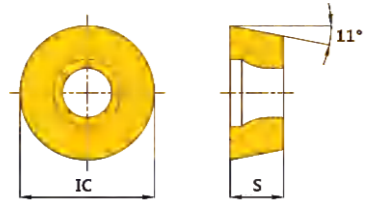
刀片外形 Insert shape	型号 Model	W	r	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application										
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010		
	PSBR0303-50	3.0	○	○			●		●						
	PSBR0404-60	4.0	○	○			●		●						
	PSBR0505-70	5.0	○	○			●		●						
	PSBR0606-70	6.0	○	○			●		●						
	PSBR0707-80	7.0	○	○			●		●						
铸铁Cast Iron		★ ★ ★ ★													
耐热合金Heat Resistant Alloy		☆													
淬硬钢Hardened Steel		★ ★ ★ ★ ★													

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

RPGW..



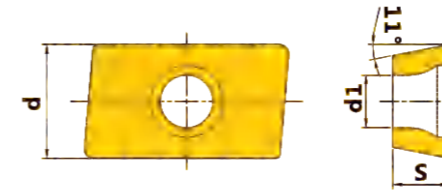
型号 Model	尺寸Size (mm)	
	IC	S
RP..1003M0	10	3.18
RP..1204M0	12	4.76

刀片外形 Insert shape	型号 Model	r	刀片材质及适用加工材料 Insert grades and application												
			倒棱 S01020	倒棱 S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010		
	FN-RPGW1003M0	5.0	○	○					●						
	FN-RPGW1204M0	6.0	○	○					●						
铸铁Cast Iron					★	★	★	★							
耐热合金Heat Resistant Alloy						☆									
淬硬钢Hardened Steel									★	★	★	★	★		

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

AP..

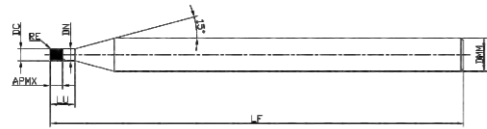


型号 Model	尺寸Size (mm)		
	d	s	d1
AP..1135..	6.35	3.5	2.8
AP..1604..	9.525	4.76	4.4

刀片外形 Insert shape	型号 Model	r	刀片材质及适用加工材料 Insert grades and application												
			倒棱 S01020	倒棱 S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010		
	2NU-APGW113504	0.4	○	○					●		●				
	2NU-APGW113508	0.8	○	○					●		●				
	2NU-APGW113512	1.2	○	○					●		●				
	2NU-APGW160404	0.4	○	○					●		●				
	2NU-APGW160408	0.8	○	○					●		●				
	2NU-APGW160412	1.2	○	○					●		●				
	1NU-APGW113504	0.4	○	○					●		●				
	1NU-APGW113508	0.8	○	○					●		●				
	1NU-APGW113512	1.2	○	○					●		●				
	1NU-APGW160404	0.4	○	○					●		●				
	1NU-APGW160408	0.8	○	○					●		●				
	1NU-APGW160412	1.2	○	○					●		●				
	FN-APGW113504	0.4	○	○							●				
	FN-APGW113508	0.8	○	○							●				
	FN-APGW113512	1.2	○	○							●				
铸铁Cast Iron					★	★	★	★							
耐热合金Heat Resistant Alloy						☆									
淬硬钢Hardened Steel										★	★	★	★	★	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

KNR-PCBN Radius endmill
KNR-PCBN R角立铣刀



型号 Model	库存 Stock	刀刃 DC	刀头半径 RE	切深 APMX	尺寸 Size (mm) 切刃长 LU	全长 LF	光杆直径 DN	刀柄径 DMM	修光刀
KNR2D020R005-0054	○	0.2	0.05	0.1	0.5	50	0.17	4	无
KNR2D030R005-0054	○	0.3	0.05	0.15	0.5	50	0.27	4	
KNR2D040R005-0054	○	0.4	0.05	0.2	0.5	50	0.37	4	
KNR2D050R005-0054	○	0.5	0.05	0.3	0.5	50	0.47	4	
KNR2D050R005-0154	○	0.5	0.05	0.3	1.5	50	0.47	4	
KNR2D050R005-0254	○	0.5	0.05	0.3	2.5	50	0.47	4	
KNR2D050R010-0154	○	0.5	0.10	0.3	1.5	50	0.47	4	
KNR2D050R010-0254	○	0.5	0.10	0.3	2.5	50	0.47	4	
KNR2D100R005-0304	○	1.0	0.05	0.7	3.0	50	0.97	4	
KNR2D100R005-0504	○	1.0	0.05	0.7	5.0	50	0.97	4	
KNR2D100R010-0304	○	1.0	0.10	0.7	3.0	50	0.97	4	
KNR2D100R010-0504	○	1.0	0.10	0.7	5.0	50	0.97	4	
KNR2D100R020-0304	○	1.0	0.20	0.7	3.0	50	0.97	4	
KNR2D100R020-0504	○	1.0	0.20	0.7	5.0	50	0.97	4	
KNR2D100R030-0304	○	1.0	0.30	0.7	3.0	50	0.97	4	
KNR2D100R030-0504	○	1.0	0.30	0.7	5.0	50	0.97	4	
KNR2D150R010-0454	○	1.5	0.10	1.2	4.5	50	1.47	4	
KNR2D150R010-0754	○	1.5	0.10	1.2	7.5	50	1.47	4	
KNR2D150R020-0454	○	1.5	0.20	1.2	4.5	50	1.47	4	
KNR2D150R020-0754	○	1.5	0.20	1.2	7.5	50	1.47	4	
KNR2D150R030-0454	○	1.5	0.30	1.2	4.5	50	1.47	4	
KNR2D150R030-0754	○	1.5	0.30	1.2	7.5	50	1.47	4	
KNR2D200R010-0604	○	2.0	0.10	1.5	6.0	50	1.97	4	
KNR2D200R020-0604	○	2.0	0.20	1.5	6.0	50	1.97	4	
KNR2D200R030-0604	○	2.0	0.30	1.5	6.0	50	1.97	4	
KNR2D200R050-0604	○	2.0	0.50	1.5	6.0	50	1.97	4	

●标准库存standard stock ○订单生产order production

型号的称呼方法

KNR 2 D050 R010 - 015 4

① 形式几号 ② 刃数 ③ 刃径 ④ 刀头半径 ⑤ 切刃长 ⑥ 刀柄径

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK5SCM SUS Alloy Steel	预热钢 NAK HPM Pre- Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温 合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程 塑料 Plastics	玻璃 纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎ 首选Preferred ○ 可选optional

KNR-PCBN Radius endmill
KNR-PCBN R角立铣刀

- (1)为了保证稳定的切削,请使用刚性高的铣床。
- (2)推荐使用不溶性切削液,以及使用喷雾或外部给油,使用时,有因加工产生火花和刀具破损发生火灾的危险,所以请做好防火措施。
- (3)请尽量缩短工具的悬伸量。
- (4)根据机械刚性等不同加工条件也不相同,因此请每次调整加工条件。
- (5)请根据需要的加工面粗糙度调整切深量。

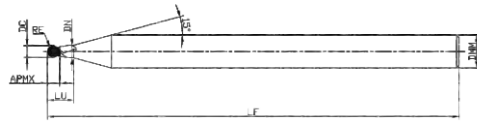
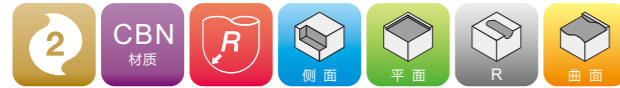
- (1) In order to ensure stable cutting, please use high rigidity milling machine.
- (2) recommend the use of insoluble water cutting fluid, and use spray or external oil. When using, there is a risk of fire due to sparks and tool breakage, so please take fire prevention measures.
- (3) Please shorten the overhang of the tool as much as possible.
- (4) According to the mechanical rigidity and other different processing conditions are not the same, so please adjust the processing conditions each time.
- (5) Please adjust the cutting depth according to the required surface roughness.



切削参数表 Standard Drilling Conditions

刀刃 (mm)	被削材 刀头半径 (mm)	切刃长 (mm)	STAVAX, NAK80, SKD61(~52HRC)				ELMAX,DC53,SKD11改 (~62HRC)				YXR3,SKH(~70HRC)			
			转速 (min ⁻¹)	进给速度 (mm/min)	ap (mm)	ae (mm)	转速 (min ⁻¹)	进给速度 (mm/min)	ap (mm)	ae (mm)	转速 (min ⁻¹)	进给速度 (mm/min)	ap (mm)	ae (mm)
0.2				400	0.005	0.03		400	0.005	0.03		250	0.005	0.02
0.3				500	0.010	0.05		500	0.010	0.05		300	0.005	0.03
0.4	0.05	0.05			0.015	0.1			0.015	0.1	40,000			0.05
			40,000			0.15		40,000		0.15				0.1
0.5	0.1	1.5		600	0.02	0.1		600	0.02	0.1		400		
	0.05	2.5			0.01	0.05			0.01	0.05	35,000			0.05
	0.1	3.0				0.03	0.3			0.03	0.2			0.01
1.0	0.05		35,000					35,000				30,000		0.1
	0.1	5.0			0.02	0.2			0.02	0.1				
	0.2													
	0.3													
1.5	0.1	4.5		800		0.5		800				600		
	0.2													
	0.3													
	0.1	7.5	26,000		0.03		26,000		0.03			20,000		0.02
	0.2													
	0.3													
2.0	0.1													
	0.2	6.0					0.7			0.7	15,000			0.03
	0.3													
	0.5													

KNB-PCBN Ball endmill KNB-PCBN 球头立铣刀



型号 Model	库存 Stock	尺寸 Size (mm)						
		球头半径 RE	刃径 DC	切深 APMX	切刃长 LU	全长 LF	光杆直径 DN	刀柄径 DMM
KNB2R020-0124	○	0.20	0.4	0.3	1.2	50	0.37	4
KNB2R020-0126	○	0.20	0.4	0.3	1.2	50	0.37	6
KNB2R020-0204	○	0.20	0.4	0.3	2.0	50	0.37	4
KNB2R020-0304	○	0.20	0.4	0.3	3.0	50	0.37	4
KNBR020-0404	○	0.20	0.4	0.3	4.0	50	0.37	4
KNB2R030-0154	○	0.30	0.6	0.4	1.5	50	0.57	4
KNB2R030-0156	○	0.30	0.6	0.4	1.5	50	0.57	6
KNB2R030-0304	○	0.30	0.6	0.4	3.0	50	0.57	4
KNB2R030-0404	○	0.30	0.6	0.4	4.0	50	0.57	4
KNB2R030-0504	○	0.30	0.6	0.4	5.0	50	0.57	4
KNB2R030-0604	○	0.30	0.6	0.4	6.0	50	0.57	4
KNB2R050-0254	○	0.50	1.0	0.6	2.5	50	0.97	4
KNB2R050-0256	○	0.50	1.0	0.6	2.5	50	0.97	6
KNB2R050-0304	○	0.50	1.0	0.6	3.0	50	0.97	4
KNB2R050-0404	○	0.50	1.0	0.6	4.0	50	0.97	4
KNB2R050-0604	○	0.50	1.0	0.6	6.0	50	0.97	4
KNB2R050-0804	○	0.50	1.0	0.6	8.0	50	0.97	4
KNB2R075-0404	○	0.75	1.5	0.9	4.0	50	1.47	4
KNB2R075-0406	○	0.75	1.5	0.9	4.0	50	1.47	6
KNB2R100-0554	○	1.00	2.0	1.4	5.5	50	1.97	4
KNB2R100-0556	○	1.00	2.0	1.4	5.5	50	1.97	6
KNB2R100-0804	○	1.00	2.0	1.4	8.0	50	1.97	4

● 标准库存 standard stock ○ 订单生产 order production

型号的称呼方法 Address method of model number

KNB 2 R030 R010 - 015 4

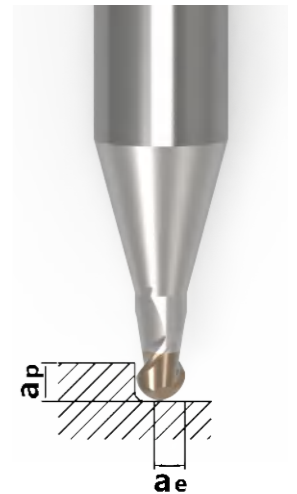
① 形式号 Form number	② 刃数 The blade number	③ 刃径 The blade diameter	④ 刀头半径 Tip radius	⑤ 切刃长 Cutting blade length	⑥ 刀柄径 The handle diameter
-------------------------	-----------------------------	-------------------------------	-------------------------	----------------------------------	---------------------------------

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK5CM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎ 首选 Preferred ○ 可选 optional

KNB-PCBN Ball endmill KNB-PCBN 球头立铣刀

- (1) 为了保证稳定的切削，请使用刚性高的铣床。
 - (2) 推荐使用不溶于水性切削液，以及使用喷雾或外部给油。
使用时，有因加工产生火花和刀具破损发生火灾的危险，所以请做好防火措施。
 - (3) 请尽量缩短工具的悬伸量。
 - (4) 根据机械刚性等不同加工条件也不相同，因此请每次调整加工条件。
 - (5) 请根据需要的加工面粗糙度调整切深量。
- (1) In order to ensure stable cutting, please use high rigidity milling machine.
(2) recommend the use of insoluble water cutting fluid, and use spray or external oil.
When using, there is a risk of fire due to sparks and tool breakage, so please take fire prevention measures.
(3) Please shorten the overhang of the tool as much as possible.
(4) According to the mechanical rigidity and other different processing conditions are not the same, so please adjust the processing conditions each time.
(5) Please adjust the cutting depth according to the required surface roughness.

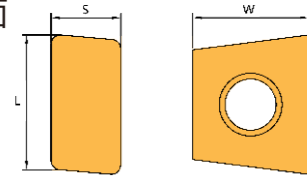


切削参数表 Standard Drilling Conditions

被削材 By cutting material		STAVAX、NAK80、SKD61(~52HRC)				ELMAX,DC53,SKD11改 (~62HRC)				YXR3,SKH(~70HRC)			
刀刃半径 The blade radius (mm)	切刃长 Cutting blade length (mm)	转速 speed (min ⁻¹)	进给速度 Feed speed (mm/min)	ap (mm)	pf (mm)	转速 speed (min ⁻¹)	进给速度 Feed speed (mm/min)	ap (mm)	pf (mm)	转速 (min ⁻¹)	进给速度 (mm/min)	ap (mm)	pf (mm)
0.2	1.2	40,000	1,000	0.005	0.010	40,000	800	0.005	0.010	40,000	600	0.005	0.005
	2.0		600				400				300		
	3.0		500				400				200		
	4.0		500				400				200		
0.3	1.5	30,000	1,600	0.010	0.010	30,000	1,400	0.010	0.010	30,000	1,200	0.010	0.010
	2.0		1,500				1,300				1,100		
	3.0		1,400				1,200				1,000		
	4.0		1,200				1,000				700		
	5.0		800				700				600		
	6.0		600				500				400		
0.5	2.5	40,000	2,800	0.030	0.030	40,000	2,800	0.030	0.030	40,000	2,200	0.030	0.030
	3.0		2,600				2,600				2,100		
	4.0		2,400				2,400				2,000		
	6.0		1,500				1,500				1,300		
0.7	4.0	32,000	2,400	0.030	0.030	32,000	2,200	0.030	0.030	32,000	2,000	0.030	0.030
	5.5		4,000				4,000				3,000		
1.0	4.0	32,000	2,400	0.030	0.030	32,000	2,200	0.030	0.030	32,000	2,000	0.030	0.030
	8.0		3,000				3,000				2,200		

PCBN Inserts
PCBN刀片

LCGW..整面



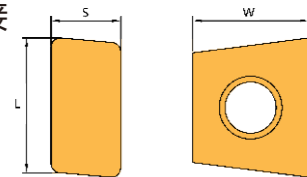
型号 Model	尺寸Size (mm)		
	S	L	W
LCGW1206	6	11.58	10
LCGW1508	8	15	13

刀片外形 Insert shape	型号 Model	r	APMX	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application													
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	1F-LCGW120608	0.8	5.0	○	★	★	★	★										
	1F-LCGW150808	0.8	8.0	○														
铸铁Cast Iron					★	★	★	★										
耐热合金Heat Resistant Alloy						☆												
淬硬钢Hardened Steel									★	★	★	★	★					

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片

LCGW..焊接



型号 Model	尺寸Size (mm)		
	S	L	W
LCGW1206	6	11.58	10
LCGW1508	8	15	13

刀片外形 Insert shape	型号 Model	r	APMX	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application													
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010					
	2NU-LCGW120608	0.8	5.0	○	★	★	★	★										
	2UN-LCGW150808	0.8	8.0	○														
铸铁Cast Iron					★	★	★	★										
耐热合金Heat Resistant Alloy						☆												
淬硬钢Hardened Steel									★	★	★	★	★					

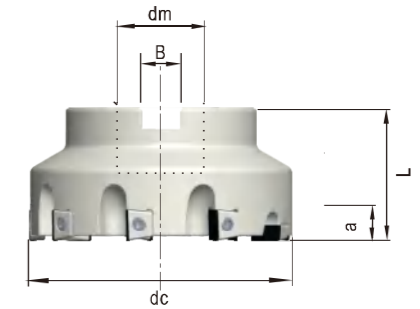
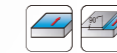
★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

90° Indexable Face Mills

90° 可转位面铣刀
FM90



- 采用单面四刃，高效经济的利器。
- 平装立装超薄刀片设计
- 适用于钢及铸铁的中，重型铣削加工。
- Using single-sided, four-blade, efficient and economical sharp tools.
- Flat mounted vertical super thick blade design
- Suitable for medium and heavy milling of steel and cast iron.



型号 Model	库存 Stock	尺寸 (mm) Dimensions					齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	a	B	L					
FM90-63-22-LC12-04	●	63	22	15	10.4	40	4				
FM90-80-27-LC12-06	●	80	27	15	12.4	50	6				
FM90-100-32-LC12-08	●	100	32	15	14.4	50	8				
FM90-125-40-LC12-10	●	125	40	15	16.4	60	10	LC..1206..	M4.0X12	T15	
FM90-160-40-LC12-14	●	160	40	15	16.4	63	14				
FM90-200-60-LC12-18	○	200	60	15	23.7	63	18				
FM90-250-60-LC12-24	○	250	60	15	23.7	63	24				

* 刀片需单独订购。Blades to be ordered separately.

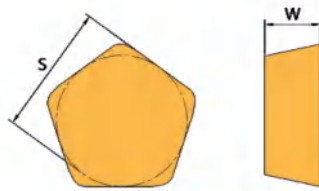
● 标准库存standard stock ○ 订单生产order production

型号 Model	库存 Stock	尺寸 (mm) Dimensions					齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	a	B	L					
FM90-63-22-LC15-04	●	63	22	15	10.4	40	4				
FM90-80-27-LC15-05	●	80	27	15	12.4	40	5				
FM90-100-32-LC15-06	●	100	32	15	14.4	50	6				
FM90-125-40-LC15-07	●	125	40	15	16.4	63	7	LC..1508..	M5.0*15	T20	
FM90-160-40-LC15-08	●	160	40	15	16.4	63	8				
FM90-200-60-LC15-10	●	200	60	15	23.7	63	10				
FM90-250-60-LC15-12	●	250	60	15	23.7	63	12				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存standard stock ○ 订单生产order production

PCBN Inserts
PCBN刀片
PCGW..



型号 Model	尺寸Size (mm)	
	S	W
POGN0804	11.2	4.8

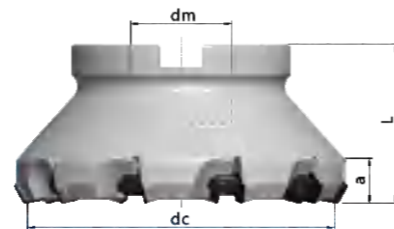
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	APMX	倒棱 S01025	KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010
	1FN-POGN080412	1.2	5.0	○			●						
铸铁Cast iron					★	★	★	★					
耐热合金Heat Resistant Alloy						☆							
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

60° Indexable Face Mills
60° 可转位面铣刀
FM60



- 采用单面五刃，高效经济的利器。
- 低阻力设计
- 适用于钢及铸铁的中，重型铣削加工。
- Adopt single-sided and five-blade, efficient and economical sharp tool.
- Low resistance design
- Suitable for medium and heavy milling of steel and cast iron.

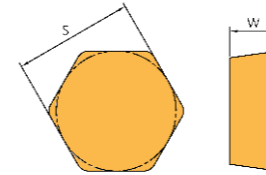


型号 Model	库存 Stock	尺寸 (mm) Dimensions					齿数 No. of teeth	刀片 Insert	压板 clamp	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	a	B	L						
FM60-63-22-P008-05	●	63	22	17	40	5						
FM60-80-27-P008-06	●	80	27	17	40	6						
FM60-100-32-P008-08	●	100	32	17	50	8						
FM60-125-40-P008-10	●	125	40	17	50	10	PO..0804..	SBT1012	M6.0*18	S3		
FM60-160-40-P008-12	●	160	40	17	63	12						
FM60-200-60-P008-14	●	200	60	17	63	14						
FM60-250-60-P008-17	●	250	60	17	63	17						

● 标准库存standard stock ○ 订单生产order production

* 刀片需单独订购。Blades to be ordered separately.

PCBN Inserts
PCBN刀片
HOGN..



型号 Model	尺寸Size (mm)	
	S	W
HOGN0604	11.8	4.76
HOGN0906	16	6.35

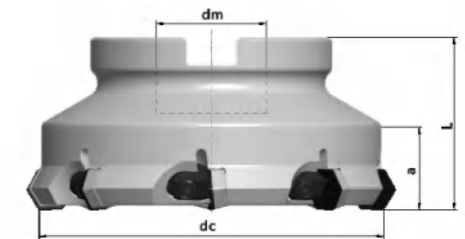
刀片外形 Insert shape	型号 Model	r	APMX	倒棱 S01025	刀片材质及适用加工材料 Insert grades and application									
					KBN1000	KBN900	KBN910	KBN800	KBN710	KBN7030	KBN6020	KBN610	KBN5010	
	1FN-HOGN060412	1.2	5.0	○										
	1FN-HOGN090612	1.2	8.0	○										
铸铁Cast Iron									★	★	★	★		
耐热合金Heat Resistant Alloy										☆				
淬硬钢Hardened Steel													★	★

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

58° Indexable Face Mills
58° 可转位面铣刀
FM58



- 采用单面6刃，高效经济的利器。
- 低阻力设计
- 适用于钢及铸铁的中，重型铣削加工。
- Adopt single-sided and five-blade, efficient and economical sharp tool.
- Low resistance design
- Suitable for medium and heavy milling of steel and cast iron.



型号 Model	库存 Stock	尺寸 (mm) Dimensions				齿数 No. of teeth	刀片 Insert	压板 clamp	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	a	L						
FM58-63-22-HO06-06	●	63	22	25	40	6					
FM58-80-27-HO06-07	●	80	27	25	40	7					
FM58-100-32-HO06-08	●	100	32	25	50	8					
FM58-125-40-HO06-10	●	125	40	25	63	10	HO..0604..		M6.0*18	S3	
FM58-160-40-HO06-12	●	160	40	25	63	12		SBT1012			
FM58-200-60-HO06-14	●	200	60	25	63	14					
FM58-250-60-HO06-17	●	250	60	25	63	17					

● 标准库存standard stock ○ 订单生产order production

* 刀片需单独订购。Blades to be ordered separately.

型号 Model	库存 Stock	尺寸 (mm) Dimensions				齿数 No. of teeth	刀片 Insert	压板 clamp	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	a	L						
FM58-63-22-HO09-05	●	63	22	25	40	5					
FM58-80-27-HO09-06	●	80	27	25	40	6					
FM58-100-32-HO09-07	●	100	32	25	50	7					
FM58-125-40-HO09-09	●	125	40	25	63	9	HO..0906..		M6.0*20	S3	
FM58-160-40-HO09-11	●	160	40	25	63	11		SBT101210			
FM58-200-60-HO09-13	●	200	60	25	63	13					
FM58-250-60-HO09-16	●	250	60	25	63	16					

● 标准库存standard stock ○ 订单生产order production

* 刀片需单独订购。Blades to be ordered separately.

PCD刀具

KPD05/KPD10/KPD25

科维丝PCD刀具是采用高温高压的优 质PCD和优质的硬质合金为基体焊接而成的。可满足车削、铣削等不同加工的需求。

在铝合金和铜合金加工方面有超长的刀具寿命。

在非合金材料，如陶瓷、石材、橡胶、石墨、石材等方面加工性能优越。

KOVES PCD tool adopt high temperature and high pressure PCD material welding on superior hard alloy substrate.

It can meet all kinds of processing demands of turning and milling. It has the ultra long tool life in the aluminum alloy and copper alloy processing.

It also have superior machining in non-alloy materials, such as ceramics, stone, rubber, graphite, wood and so on.



www.pcbn.com

PCD刀具

PCD cutting tool

C01~C48



PCD刀片 PCD Inserts 页码C01-C24

PCD刀片 PCD Inserts	C
刀夹 Cartridge	C
铝用刀盘系列	C
圆盘微调铝刀盘系列	C

HCBE-硬质合金 金刚石球头铣刀系列 页码C25-C36 HCBE- Carbide diamond ball milling cutter series

SCD烧结式定柄金刚石钻头	C
HCBE-PCD Ball endmill for tungsten carbide	
HCRE-硬质合金加工用金刚石R角铣刀	C
HCRE-PCD Corner R endmill for tungsten carbide	
HBE-金刚石球头铣刀	C
HBE-PCD Ball endmill	
HSE-金刚石平底铣刀	C
HSE-PCD endmill	
PCE1-金刚石直刃铣刀 (单刃/双刃)	C
Pce1-diamond Straight Edge Milling Cutter (Single edge/Double edge)	
PCES1-金刚石螺旋刃铣刀 (单刃/双刃)	C
Pces1-diamond Spiral Edge Milling Cutter (Single edge/Double edge)	
PCB1-金刚石球头铣刀 (单刃/双刃)	C
PCB1- Diamond Ball Milling Cutter (Single edge/Double edge)	

金刚石钻头系列 Diamond bit series 页码C37-C43

SCD烧结式定柄金刚石钻头	C
SCD sintered fixed shank diamond bit	
SCLD烧结式直柄金刚石钻头	C
SCLD Sintered diamond drill (straight shank)	
HCD焊接式金刚石钻头	C
HCD welded diamond bit	
PHD焊接式直柄金刚石钻头	C
PHD welded straight shank diamond bit	

PCD断屑槽:金刚石刀片 PCD chip breaker: Diamond blade 页码C43-C48

非标刀具 Non-standard cutter	C
方案配套能力 Scheme supporting capacity	C

PCD Inserts
PCD刀片

PCD材质 PCD material

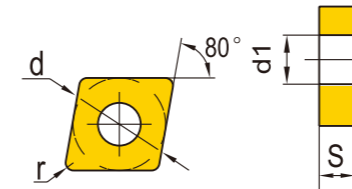
材质 Grades	特性 Characteristic	应用 Application	颗粒尺寸 Grain size (μm)	硬度 Hardness (Hv)	抗弯强度 Bending strength (kgf)
KPD05	超微颗粒钻精华，可以制造锋利切削刃，是有色金属加工的合适材质 Ultra fine particle drilling essence, can make sharp cutting edge, It is a suitable material for non-ferrous metal processing	塑料、木头、铝合金精加工 Plastic, wood, aluminum alloy processing.	5 μm	10,000 ~ 12,000	220
KPD10	细颗粒的材质，粒度精密，适合有色金属、石墨加工 Fine particle material, fine granularity, suitable for non-ferrous metals, graphite processing	高硅铝合金、紫青铜合金、橡胶、木头、石墨加工 High silicon aluminum alloy, purple bronze alloy, rubber, wood, graphite processing	10 μm	10,000 ~ 12,000	200
KPD25	粗颗粒的材质具有杰出的耐磨性用于高硅铝合金和硬质合金加工 Rough grained material has excellent wear resistance For high silicon aluminum alloy and cemented carbide processing	硬质合金、陶瓷粗加工、高硅铝合金、岩石、石材 Carbide, ceramic rough processing, high silicon aluminum alloy, rock, stone	25 μm	10,000 ~ 12,000	110
KCD02	精密加工 Precision machining	低硅铝合金，铜合金，贵金属的精加工。 Low silicon aluminum alloy, copper alloy, Finishing of precious metals.	2 μm	10,000 ~ 12,000	
KCD05	良好的EDM加工，抗冲击性强 Precision machining center	低硅铝合金(电子、汽车)，木塑复合材料，铜合金，PCB,塑料。 Low silicon aluminum alloy (electronics, automotive), Wood plastic composite materials, copper alloy, PCB, plastic.	5 μm	10,000 ~ 12,000	
KCD10	通用，韧性和耐磨性良好的平衡 Good EDM processing, strong impact resistance	通用性好，粗加工和精加工，强烈推荐中低含量铝合金 Good versatility, rough machining and Finishing, highly recommended Low content aluminum alloy	10 μm	10,000 ~ 12,000	
KCD25	良好的EDM加工，较高的耐磨性 General purpose, good balance of toughness and wear resistance	通用性好，粗加工和精加工，强烈推荐中低含量铝合金。特殊制造，优异的耐磨性。 Good versatility, rough machining and fineProcessing, medium and low contents highly recommendedMeasure aluminum alloy. Specially manufactured, Excellent wear resistance.	25 μm	10,000 ~ 12,000	
KCD35	较好的电火花加工，寿命长,耐热性和抗冲击性较好。 Good EDM, long service life, good heat resistance and impact resistance.	用于复合材料、强化地板、非金属硬脆材料、硬质合金、硅铝合金(硅含量>12%)、其他高耐磨材料，如陶瓷、碳化物等。 For composite materials and reinforced ground: Plate, non-metallic hard and brittle materials Cemented carbide, silicon aluminum alloy (silicon content > 12%), other high Wear resistant materials, such as ceramics, carbides, etc.	≥ 95	1-3 25-35	
KCD40	较好的电火花加工，寿命长,耐热性和抗冲击性较好。 Good EDM, long service life, good heat resistance and impact resistance.	用于树脂、复合材料、玻璃钢、高密度增强木板、硅铝合金等。 Used for resin, composite materials, FRP, high density Reinforced wood board, silicon aluminum alloy, etc.	≥ 95	25-40	
KCD60			60 μm	10,000 ~ 12,000	

推荐切削条件 Recommended cutting conditions

被加工材质 Processed material	切削速度 Cutting speed (m/min)	进给 Feeding (mm/rev)	切深 Cut deep (mm)	推荐材质 Recommended material	
				1 st	2 nd
铝合金 (4%~8% Si) Aluminum alloy (4%~8%, Si)	1000~3000	0.1~0.6	~3	KPD10	KPD25
铝合金 (9%~14% Si) Aluminum alloy (9%~14%, Si)	600~2500	0.1~0.5	~3	KPD10	KPD25
铝合金 (15%~18% Si) Aluminum alloy (15%~18%, Si)	300~700	0.1~0.4	~3	KPD10	KPD25
紫铜，青铜合金 Red copper, bronze alloy	~1000	0.05~0.2	~3	KPD10	KPD25
高强度塑料 High strength plastic	~1000	0.1~0.3	~2	KPD10	KPD25
木材 wood	~4000	0.1~0.4	-	KPD10	KPD25
硬质合金 Cemented carbide	10~30	~0.2	~0.5	KPD05	KPD10

PCD Inserts
PCD刀片

CN..



型号 Model	尺寸Size (mm)		
	d	s	d1
CN..0903..	9.525	3.18	3.81
CN..1204..	12.7	4.76	5.16
CN..1606..	15.88	6.35	6.35
CN..1906..	19.05	6.35	7.94
CN..2509..	25.4	9.53	9.12

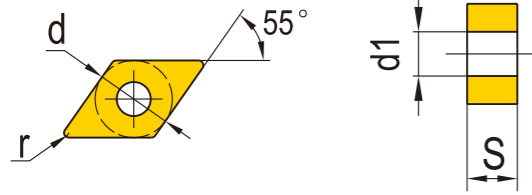
刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application									
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60		
	CNMM120402	0.2	1		●								
	CNMM120404	0.4	1		●								
	CNMM120408	0.8	1		●								
	CNMM120412	1.2	1		●								
有色金属 Nonferrous Metal													★
耐热合金 Heat Resistant Alloy													☆

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

PCD Inserts
PCD刀片

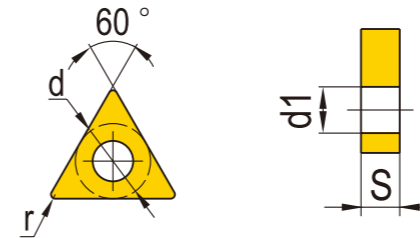
DN..



型号 Model	尺寸Size (mm)		
	d	s	d1
DN..1104..	9.525	4.76	3.81
DN..1504..	12.7	4.76	5.16
DN..1506..	12.7	6.35	5.16

PCD Inserts
PCD刀片

TN..



型号 Model	尺寸Size (mm)		
	d	s	d1
TN..1604..	9.525	4.76	3.81
TN..2204..	12.7	4.76	5.16

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	DNMM150402	0.2	1		●							
	DNMM150404	0.4	1		●							
	DNMM150408	0.8	1		●							
	DNMM150412	1.2	1		●							
	DNMG150404FA	0.4	1		●							
	DNMG150408FA	0.8	1		●							
	DNMG150412FA	1.2	1		●							
有色金属Nonferrous Metal					★							
耐热合金Heat Resistant Alloy					☆							

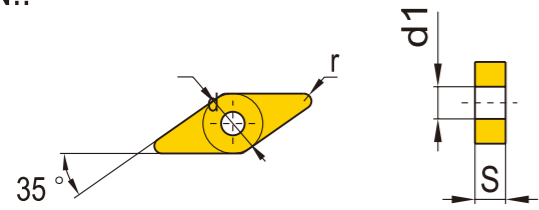
★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	TNMM160402	0.2	1		●							
	TNMM160404	0.4	1		●							
	TNMM160408	0.8	1		●							
	TNMM160412	1.2	1		●							
	TNMG160404FA	0.4	1		●							
	TNMG160408FA	0.8	1		●							
	TNMG160412FA	1.2	1		●							
有色金属Nonferrous Metal					★							
耐热合金Heat Resistant Alloy					☆							

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

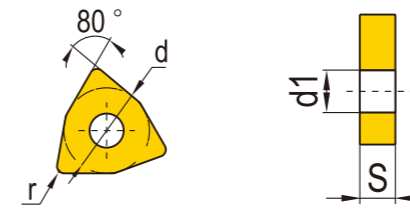
VN..



型号 Model	尺寸Size (mm)		
	d	s	d1
VN..1604..	9.525	4.76	3.81

PCD Inserts
PCD刀片

WN..



型号 Model	尺寸Size (mm)		
	d	s	d1
WN..0604..	9.525	4.76	3.81
WN..0804..	12.7	4.76	5.16

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application									
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60		
	VNMM160402	0.2	1		●								
	VNMM160404	0.4	1		●								
	VNMM160408	0.8	1		●								
	VNMM160412	1.2	1		●								
	VNMG160404FA	0.4	1		●								
	VNMG160408FA	0.8	1		●								
	VNMG160412FA	1.2	1		●								
有色金属Nonferrous Metal					★								
耐热合金Heat Resistant Alloy					☆								

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

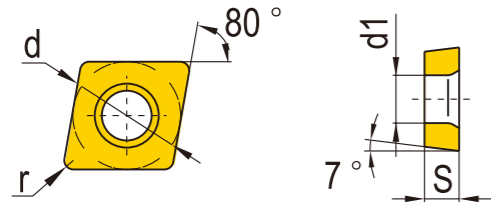
刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application									
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60		
	WNMM080402	0.2	1		●								
	WNMM080404	0.4	1		●								
	WNMM080408	0.8	1		●								
	WNMM080412	1.2	1		●								
	WNMG080404FA	0.4	1		●								
	WNMG080408FA	0.8	1		●								
	WNMG080412FA	1.2	1		●								
有色金属Nonferrous Metal					★								
耐热合金Heat Resistant Alloy					☆								

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

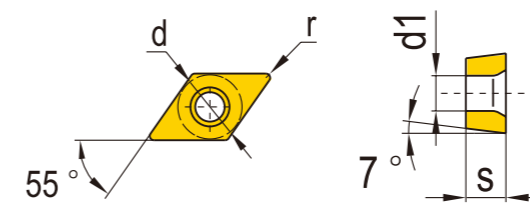
CC..



型号 Model	尺寸Size (mm)		
	d	s	d1
CC..0301..	3.5	1.4	1.9
CC..0401..	4.3	1.8	2.3
CC..0602..	6.35	2.38	2.8
CC..09T3..	9.525	3.97	4.4

PCD Inserts
PCD刀片

DC..



型号 Model	尺寸Size (mm)		
	d	s	d1
DC..0702..	6.35	2.38	2.8
DC..11T3..	9.525	3.97	4.4

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	CCGW040101	0.1	1		●							
	CCGW040102	0.2	1		●							
	CCGW040104	0.4	1		●							
	CCGW060201	0.1	1		●							
	CCGW060202	0.2	1		●							
	CCGW060204	0.4	1		●							
	CCGW09T301	0.1	1		●							
	CCGW09T302	0.2	1		●							
	CCGW09T304	0.4	1		●							
CCGW09T308	0.8	1		●								
	CCMT060201	0.1	1		●							
	CCMT060202	0.2	1		●							
	CCMT060204	0.4	1		●							
	CCMT09T301	0.1	1		●							
	CCMT09T302	0.2	1		●							
	CCMT09T304	0.4	1		●							
CCMT09T308	0.8	1		●								
	CCGW060204FA	0.4	1		●							
	CCGW09T304FA	0.4	1		●							
	CCGW09T308FA	0.8	1		●							
有色金属Nonferrous Metal											★	
耐热合金Heat Resistant Alloy											☆	

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

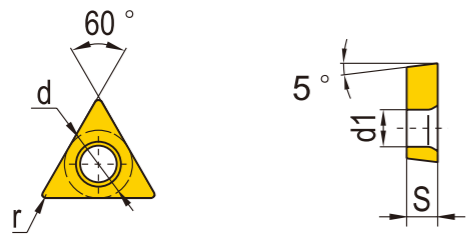
刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	DCGW070201	0.1	1		●							
	DCGW070202	0.2	1		●							
	DCGW070204	0.4	1		●							
	DCGW11T301	0.1	1		●							
	DCGW11T302	0.2	1		●							
	DCGW11T304	0.4	1		●							
	DCGW11T308	0.8	1		●							
	DCMT070201	0.1	1		●							
	DCMT070202	0.2	1		●							
	DCMT070204	0.4	1		●							
	DCMT11T301	0.1	1		●							
	DCMT11T302	0.2	1		●							
	DCMT11T304	0.4	1		●							
	DCMT11T308	0.8	1		●							
	DCGW070204FA	0.4	1		●							
	DCGW11T304FA	0.4	1		●							
DCGW11T308FA	0.8	1		●								
有色金属Nonferrous Metal											★	
耐热合金Heat Resistant Alloy											☆	

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

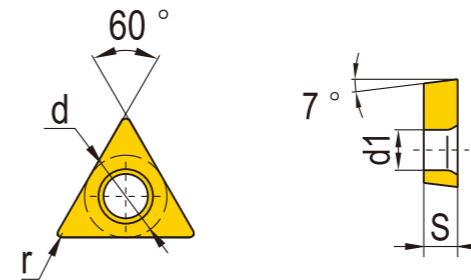
TB..



型号 Model	尺寸Size (mm)		
	d	s	d1
TB..0601..	3.97	1.59	2.3

PCD Inserts
PCD刀片

TC..



型号 Model	尺寸Size (mm)		
	d	s	d1
TC..0902..	5.56	2.38	2.5
TC..1102..	6.35	2.38	2.5
TC..16T3..	9.525	3.97	4.4

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application									
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60		
	TBGW060101	0.1	1		●								
	TBGW060102	0.2	1		●								
	TBGW060104	0.4	1		●								
	TBMT060101	0.1	1		●								
	TBMT060102	0.2	1		●								
	TBMT060104	0.4	1		●								
有色金属Nonferrous Metal					★								
耐热合金Heat Resistant Alloy					☆								

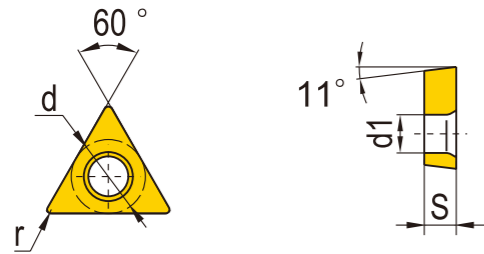
★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application									
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60		
	TCGW090201	0.1	1		●								
	TCGW090202	0.2	1		●								
	TCGW090204	0.4	1		●								
	TCGW110201	0.1	1		●								
	TCGW110202	0.2	1		●								
	TCGW110204	0.4	1		●								
	TCGW110208	0.8	1		●								
	TCMT090201	0.1	1		●								
	TCMT090202	0.2	1		●								
	TCMT090204	0.4	1		●								
	TCMT110201	0.1	1		●								
	TCMT110202	0.2	1		●								
有色金属Nonferrous Metal					★								
耐热合金Heat Resistant Alloy					☆								

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

TP..



型号 Model	尺寸Size (mm)		
	d	s	d1
TP..0802..	4.76	2.38	2.3
TP..0902..	5.56	2.38	3.0
TP..1102..	6.35	2.38	3.5
TP..1103..	6.35	3.18	3.3
TP..16T3....	9.525	3.18	4.5

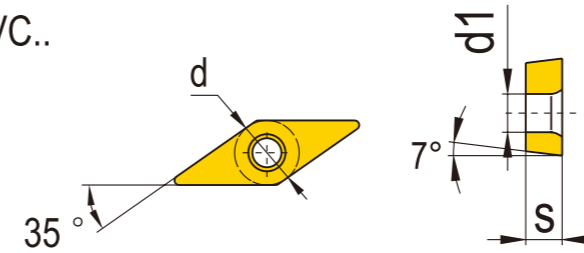
刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	TPGW080201	0.1	1	●								
	TPGW080202	0.2	1	●								
	TPGW080204	0.4	1	●								
	TPGW090201	0.1	1	●								
	TPGW090202	0.2	1	●								
	TPGW090204	0.4	1	●								
	TPGW110301	0.1	1	●								
	TPGW110302	0.2	1	●								
TPGW110304	0.4	1	●									
	TPMT080201	0.1	1	●								
	TPMT080202	0.2	1	●								
	TPMT080204	0.4	1	●								
	TPMT090201	0.1	1	●								
	TPMT090202	0.2	1	●								
	TPMT090204	0.4	1	●								
	TPMT110301	0.1	1	●								
	TPMT110302	0.2	1	●								
TPMT110304	0.4	1	●									
有色金属Nonferrous Metal												★
耐热合金Heat Resistant Alloy												☆

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

VC..



型号 Model	尺寸Size (mm)		
	d	s	d1
VC..1103..	6.35	3.18	2.8
VC..1604..	9.525	4.76	4.4

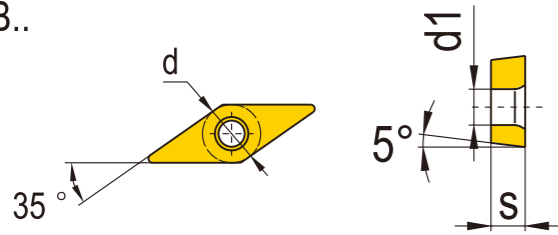
刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	VCGW110301	0.1	1	●								
	VCGW110302	0.2	1	●								
	VCGW110304	0.4	1	●								
	VCGW110308	0.8	1	●								
	VCGW160401	0.1	1	●								
	VCGW160402	0.2	1	●								
	VCGW160404	0.4	1	●								
	VCGW160408	0.8	1	●								
	VCMT110301	0.1	1	●								
	VCMT110302	0.2	1	●								
	VCMT110304	0.4	1	●								
	VCMT110308	0.8	1	●								
	VCMT160401	0.1	1	●								
	VCMT160402	0.2	1	●								
	VCMT160404	0.4	1	●								
	VCMT160408	0.8	1	●								
	VCGW110304FA	0.4	1	●								
	VCGW160404FA	0.4	1	●								
	VCGW160408FA	0.8	1	●								
有色金属Nonferrous Metal												★
耐热合金Heat Resistant Alloy												☆

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

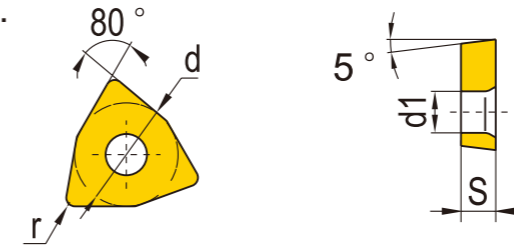
VB..



型号 Model	尺寸Size (mm)		
	d	s	d1
VB..1103..	6.35	3.18	2.8
VB..1604..	9.525	4.76	4.4

PCD Inserts
PCD刀片

WB..



型号 Model	尺寸Size (mm)		
	d	s	d1
WB..0601..	3.97	1.59	2.3

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application									
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60		
	VBGW110301	0.1	1	●									
	VBGW110302	0.2	1	●									
	VBGW110304	0.4	1	●									
	VBGW110308	0.8	1	●									
	VBGW160401	0.1	1	●									
	VBGW160402	0.2	1	●									
	VBGW160404	0.4	1	●									
	VBGW160408	0.8	1	●									
	VBMT110301	0.1	1	●									
	VBMT110302	0.2	1	●									
	VBMT110304	0.4	1	●									
	VBMT110308	0.8	1	●									
	VBMT160401	0.1	1	●									
	VBMT160402	0.2	1	●									
	VBMT160404	0.4	1	●									
	VBMT160408	0.8	1	●									
	VBGW110304FA	0.4	1	●									
	VBGW160404FA	0.4	1	●									
	VBGW160408FA	0.8	1	●									
有色金属Nonferrous Metal													★
耐热合金Heat Resistant Alloy													☆

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

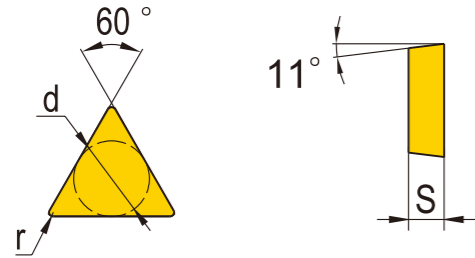
刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application									
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60		
	WBGW060101	0.1	1	●									
	WBGW060102	0.2	1	●									
	WBGW060104	0.4	1	●									
	WBMT060101	0.1	1	●									
	WBMT060102	0.2	1	●									
	WBMT060104	0.4	1	●									
有色金属Nonferrous Metal													★
耐热合金Heat Resistant Alloy													☆

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

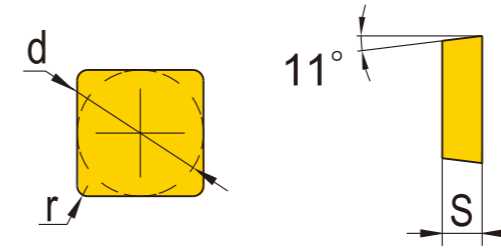
TP..



型号 Model	尺寸Size (mm)	
	d	s
TP..0902..	5.56	2.38
TP..1103..	6.35	3.18
TP..1603..	9.525	3.18

PCD Inserts
PCD刀片

SP..



型号 Model	尺寸Size (mm)	
	d	s
SP..0903..	9.525	3.18
SP..1203..	12.7	3.18

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	TPGN090201	0.1	1		●							
	TPGN090202	0.2	1		●							
	TPGN090204	0.4	1		●							
	TPGN090208	0.8	1		●							
	TPGN110302	0.2	1		●							
	TPGN110304	0.4	1		●							
	TPGN110308	0.8	1		●							
	TPGN160302	0.2	1		●							
	TPGN160304	0.4	1		●							
	TPGN160308	0.8	1		●							
有色金属Nonferrous Metal											★	
耐热合金Heat Resistant Alloy											☆	

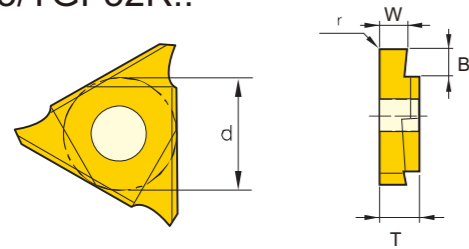
★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	SPGN090302	0.2	1									●
	SPGN090304	0.4	1									●
	SPGN090308	0.8	1									●
	SPGN120304	0.4	1									●
	SPGN120308	0.8	1									●
有色金属Nonferrous Metal												★
耐热合金Heat Resistant Alloy												☆

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

GBA43/TGF32R..



型号 Model	尺寸Size (mm)		
	d	T	d1
GBA43..	12.7	4.76	5.5
TGF32R..	9.525	3.18	4.5

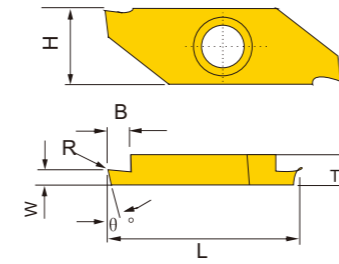
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application										
		W	B	r	KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60
	GBA43R125	1.25	2.0	0.1		●						
	GBA43R150	1.50	3.5	0.1		●						
	GBA43R200	2.00	3.5	0.1		●						
	GBA43R250	2.50	4.0	0.1		●						
	GBA43R300	3.00	4.0	0.1		●						
	TGF32R125	1.25	2.0	0.1		●						
	TGF32R150	1.50	2.0	0.1		●						
	TGF32R200	2.00	2.5	0.1		●						
有色金属Nonferrous Metal		★										
耐热合金Heat Resistant Alloy		☆										

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

KTPR..



型号 Model	尺寸Size (mm)		
	L	T	H
KTPR..	25	3.5	9.4

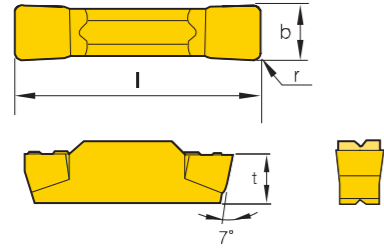
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application										
		W	B	r	KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60
	KTPR150	1.50	3.5	0.1		●						
	KTPR200	2.00	4.0	0.1		●						
	KTPR250	2.50	4.0	0.1		●						
							●					
	KTPR150FA	1.50	1.50	1.50		●						
	KTPR200FA	2.00	2.00	2.00		●						
	KTPR250FA	2.50	2.50	2.50		●						
有色金属Nonferrous Metal		★										
耐热合金Heat Resistant Alloy		☆										

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

MGGN..MRGN



型号 Model	尺寸Size (mm)			
	b	r	t	l
MGGN150	1.5	0.15	4.8	16.0
MGGN200	2.0	0.20	4.8	16.0
MGGN250	2.5	0.20	4.8	18.5
MGGN300	3.0	0.40	4.8	21.0
MGGN400	4.0	0.40	4.8	21.0
MRGN6030	6.0	3.00	5.8	26.0
MRGN8040	8.0	4.00	6.5	31.0

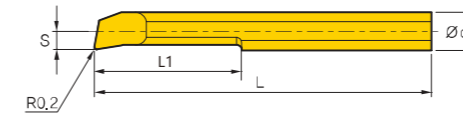
刀片外形 Insert shape	型号 Model	w	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	MGGN150	1.5	1	●								
	MGGN200	2.0	1	●								
	MGGN250	2.5	1	●								
	MGGN300	3.0	1	●								
	MGGN400	4.0	1	●								
	MRGN6030	6.0	1	●								
	MRGN8040	8.0	1	●								
有色金属Nonferrous Metal												★
耐热合金Heat Resistant Alloy												☆

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

PSBR..



型号 Model	尺寸Size (mm)			
	d	L	L1	S
PSBR0303-50	2.8	50	25	1.4
PSBR0404-60	3.8	60	30	1.9
PSBR0505-70	4.8	70	40	2.4
PSBR0606-70	5.8	70	45	2.9
PSBR0707-80	6.8	80	60	3.4

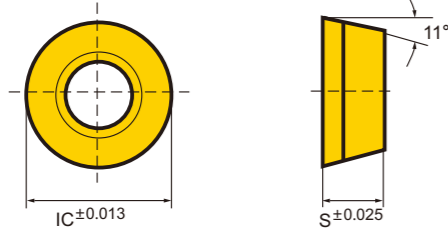
刀片外形 Insert shape	型号 Model	Dmin	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	PSBR0303-50	3.0	1	●								
	PSBR0404-60	4.0	1	●								
	PSBR0505-70	5.0	1	●								
	PSBR0606-70	6.0	1	●								
	PSBR0707-80	7.0	1	●								
有色金属Nonferrous Metal												★
耐热合金Heat Resistant Alloy												☆

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

RPKW..



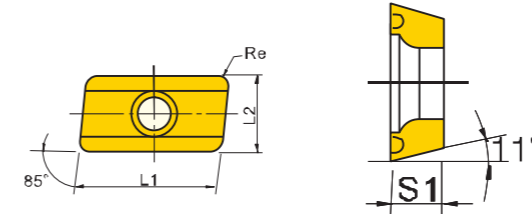
型号 Model	尺寸Size (mm)	
	IC	S
RPKW1003MO	10	3.18
RPKW1204MO	12	4.76

刀片外形 Insert shape	型号 Model	r	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	RPKW1003MO	5.0	FACE		●							
	RPKW1204MO	6.0	FACE		●							
有色金属Nonferrous Metal					★							
耐热合金Heat Resistant Alloy					☆							

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

AP..



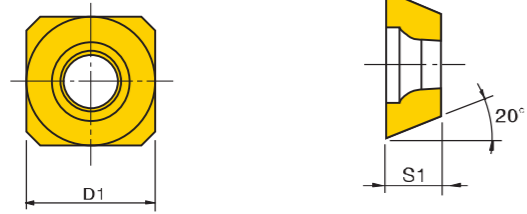
型号 Model	尺寸Size (mm)		
	L2	L1	S
AP..1135..	6.6	11.3	3.6
AP..1604..	9.56	16.4	4.76

刀片外形 Insert shape	型号 Model	Re	刀尖数 Corner	刀片材质及适用加工材料 Insert grades and application								
				KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60	
	APKT113504	0.4	1		●							
	APKT113508	0.8	1		●							
	APKT113512	1.2	1		●							
	APKT160404	0.4	1		●							
	APKT160408	0.8	1		●							
有色金属Nonferrous Metal					★							
耐热合金Heat Resistant Alloy					☆							

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD Inserts
PCD刀片

SEKT..



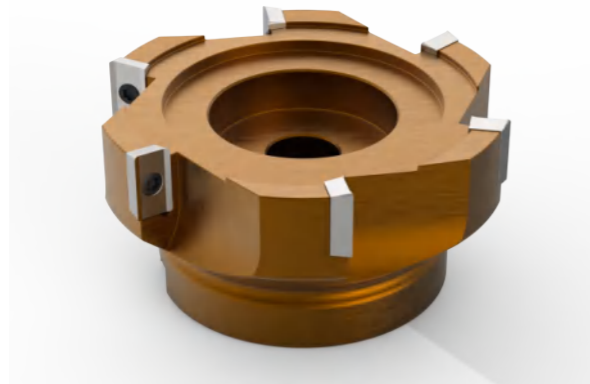
型号 Model	尺寸Size (mm)	
	d1	s1
SEKT1204..	12.7	4.76

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application									
		Re	刀尖数 Corner	KPD05	KPD10	KPD25	KCD02	KCD05	KCD10	KCD25	KCD60
	SEKT1204AFFN	C0.45	1		●						
有色金属Nonferrous Metal					★						
耐热合金Heat Resistant Alloy					☆						

★ 首选Preferred ☆ 可选optional

● 标准库存standard stock ○ 订单生产order production

铝用刀盘系列

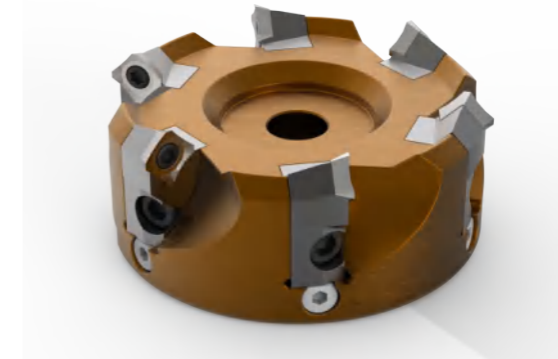


型号 Model	库存 Stock	刃径	孔径	单价 The unit price	适用刀片 Apply to the blade
BAP400R-50-22-4T-AL	○	φ50	22	66	
BAP400R-63-22-4T-AL	○	φ63	22	76	
BAP400R-80-27(22)-6T-AL	○	φ80	22/27	114	
BAP400R-100-32(22/27)-6T-AL	○	φ100	22/27/32	154	
BAP400R-125-40(27/32)-7T-AL	○	φ125	27/32/40	280	
BAP400R-160-40(27/32)-8T-AL	○	φ160	27/32/40	396	
BAP400R-200-40(27/32)-10T-AL	○	φ200	27/32/40	770	
BAP400R-250-40-12T-AL	○	φ250	40	1160	

* 刀片需单独订购。Blades to be ordered separately.

●标准库存 Standard inventory ○订单生产 The order production

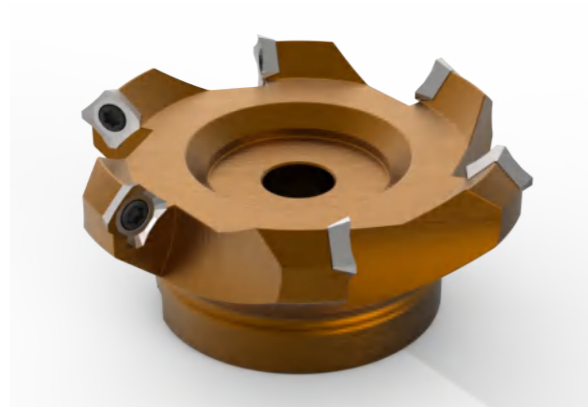
园盘微调铝刀盘系列



型号 Model	库存 Stock	刃径	孔径	单价 The unit price	适用刀片 Apply to the blade
KM12-63-22-5T-AL-KT	○	φ63	22	806	
KM12-80-22/27-6T-AL-KT	○	φ80	22/27	936	
KM12-100-32-7T-AL-KT	○	φ100	32	1014	
KM12-125-40-8T-AL-KT	○	φ125	40	1144	
KM12-160-40-10T-AL-KT	○	φ160	40	1560	
KM12-200-40-10T-AL-KT	○	φ200	40	2314	
KM12-250-60-15T-AL-KT	○	φ250	60	3055	
KM12-315-60-15T-AL-KT	○	φ315	60	4030	

* 刀片需单独订购。Blades to be ordered separately.

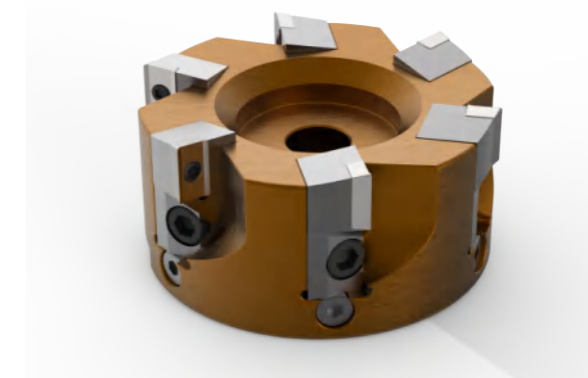
●标准库存 Standard inventory ○订单生产 The order production



型号 Model	库存 Stock	刃径	孔径	单价 The unit price	适用刀片 Apply to the blade
KM12-50-22-4T	○	φ50	22	70	
KM12-63-22-4T	○	φ63	22	84	
KM12-80-27(22)-5T	○	φ80	22/27	120	
KM12-100-32(22/27)-6T	○	φ100	22/27/32	164	
KM12-125-40(27/32)-6T	○	φ125	27/32/40	290	
KM12-160-40(27/32)-8T	○	φ160	27/32/40	396	
KM12-200-40(27/32)-10T	○	φ200	27/32/40	770	
KM12-250-40-10T	○	φ250	40	1160	

* 刀片需单独订购。Blades to be ordered separately.

●标准库存 Standard inventory ○订单生产 The order production



型号 Model	库存 Stock	刃径	孔径	单价 The unit price	适用刀片 Apply to the blade
BAP400R-63-22-4T-AL-KT	○	φ63	22	806	
BAP400R-80-27-6T-AL-KT	○	φ80	22/27	936	
BAP400R-100-27-6T-AL-KT	○	φ100	32	1014	
BAP400R-125-32-8T-AL-KT	○	φ125	40	1144	
BAP400R-160-32-10T-AL-KT	○	φ160	40	1560	
BAP400R-200-40-10T-AL-KT	○	φ200	40	2314	
BAP400R-250-60-15T-AL-KT	○	φ250	60	3055	
BAP400R-315-60-15T-AL-KT	○	φ315	60	4030	

* 刀片需单独订购。Blades to be ordered separately.

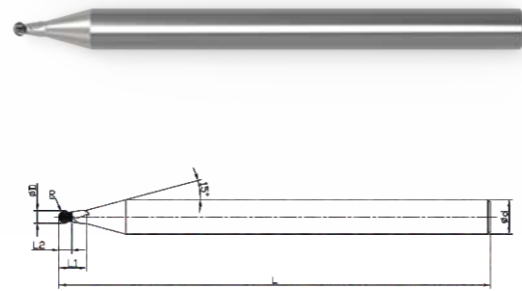
●标准库存 Standard inventory ○订单生产 The order production

HCBE-PCD Ball endmill for tungsten carbide HCBE-硬质合金加工用金刚石球头铣刀



- 直径范围 Tool dia: D0.4-D2.0mm
- 直径公差 Dia tolerance: D: 0,-0.01mm
d: 0,-0.003mm
- R公差 R tolerance: R: +0.005mm
-0.005mm

1. 加工精度高, 加工面光洁度好。
1. It has high machining precision and good surface finish.
2. 排屑顺畅。几乎不产生粘刀现象。
2. Chip removal is smooth. Almost no stick knife phenomenon.



型号 Model	库存 Stock	R	刃径 Flute Diameter D	有效长 Effective length L1	刃长 Flute length L2	避空直径 Neck Diameter D1	PCD层 PCD length	全长 Total length L	柄径 Shank Diameter d
HCBE020	○	0.2	0.4	0.8	0.3	0.36	0.6	50	4
HCBE025	○	0.25	0.5	1.0	0.4	0.46	0.8	50	4
HCBE030	○	0.3	0.6	1.2	0.5	0.56	1	50	4
HCBE040	○	0.4	0.8	1.6	0.6	0.76	1	50	4
HCBE050	○	0.5	1.0	2.0	1.0	0.95	1	50	4
HCBE060	○	0.6	1.2	2.4	1.2	1.15	2	50	4
HCBE070	○	0.7	1.4	2.8	1.4	1.35	2	50	4
HCBE075	○	0.75	1.5	3.0	1.5	1.45	2	50	4
HCBE080	○	0.8	1.6	3.2	1.5	1.55	2	50	4
HCBE090	○	0.9	1.8	3.6	1.5	1.75	2	50	4
HCBE100	○	1.0	2.0	4.0	1.5	1.95	2	50	4

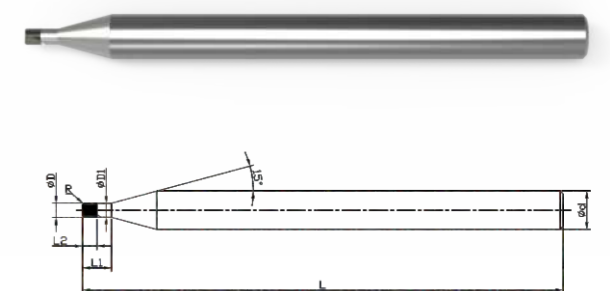
●标准库存standard stock ○订单生产order production

HCRE-PCD Corner R endmill for tungsten carbide HCRE-硬质合金加工用金刚石R角铣刀



- 直径范围 Tool dia: D0.4-D2.0mm
- 直径公差 Dia tolerance: D: 0,-0.01mm
d: 0,-0.003mm
- R公差 R tolerance: R: +0.005mm
-0.005mm

1. 加工精度高, 加工面光洁度好。
1. It has high machining precision and good surface finish.
2. 排屑顺畅。几乎不产生粘刀现象。
2. Chip removal is smooth. Almost no stick knife phenomenon.



型号 Model	库存 Stock	刃径 Flute Diameter D	R角 Corner R R	有效长 Effective length L1	刃长 Flute length L2	避空直径 Neck Diameter D1	PCD层 PCD length	全长 Total length L	柄径 Shank Diameter d
HCRE05005	○	0.5	0.05	1	0.5	0.46	0.8	50	4
HCRE05010	○	0.5	0.1	1	0.5	0.16	0.8	50	4
HCRE05020	○	0.5	0.2	1	0.5	0.46	0.8	50	4
HCRE10005	○	1	0.05	2	1	0.95	1	50	4
HCRE10010	○	1	0.1	2	1	0.95	1	50	4
HCRE10020	○	1	0.2	2	1	0.95	1	50	4
HCRE15005	○	1.5	0.05	3	1.5	1.45	2	50	4
HCRE15010	○	1.5	0.1	3	1.5	1.45	2	50	4
HCRE15020	○	1.5	0.2	3	1.5	1.45	2	50	4
HCRE20005	○	2	0.05	4	1.5	1.95	2	50	4
HCRE20010	○	2	0.1	4	1.5	1.95	2	50	4
HCRE20020	○	2	0.2	4	1.5	1.95	2	50	4

●标准库存standard stock ○订单生产order production

切削参数表 Standard Drilling Conditions

被削材 Work Material	硬质合金 Tungsten carbide				
	R mm	回转数 Rotation min ⁻¹	进给速度 Feed mm/min	进给速度2 Feed2 mm/min	切削量 Cutting Depth Ad mm
0.2	50000	70~140	15~50	0.005~0.008	0.03
0.25	50000	70~140	15~50	0.005~0.008	0.04
0.3	45000	85~160	25~55	0.008~0.011	0.05
0.4	35000	90~165	30~60	0.008~0.011	0.07
0.5	30000	100~170	30~60	0.01~0.02	0.1
0.6	30000	100~170	30~60	0.012~0.024	0.13
0.7	28000	115~170	30~65	0.014~0.028	0.16
0.75	27000	115~170	30~65	0.015~0.03	0.17
0.8	26000	120~175	35~70	0.016~0.032	0.19
0.9	25000	120~175	35~75	0.018~0.036	0.22
1.0	25000	120~175	40~80	0.02~0.04	0.25

切削参数表 Standard Drilling Conditions

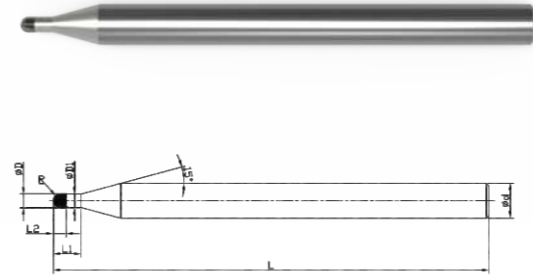
被削材 Work Material	硬质合金 Tungsten carbide				
	直径 Drill Dia. mm	回转数 Rotation min ⁻¹	进给速度 Feed mm/min	进给速度2 Feed2 mm/min	切削量 Cutting Depth Ad mm
0.5	35000	150~300	20~40	0.005~0.01	0.03
1.0	30000	300~550	30~60	0.005~0.01	0.125
1.5	25000	250~150	30~60	0.007~0.014	0.18
2.0	20000	200~400	30~60	0.01~0.02	0.25

HBE-PCD Ball endmill HBE-金刚石球头铣刀



- 直径范围 Tool dia: D0.4-D3.0mm
- 直径公差 Dia tolerance: D: 0,-0.005mm
d: 0,-0.003mm
- R公差 R tolerance: R: +0.003mm
-0.003mm

1. 加工精度高, 加工面光洁度好。
1. It has high machining precision and good surface finish.
2. 排屑顺畅。几乎不产生粘刀现象。
2. Chip removal is smooth. Almost no stick knife phenomenon.



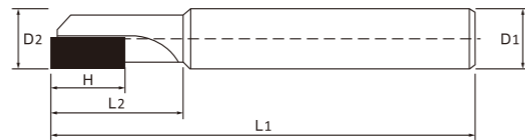
型号 Model	库存 Stock	R	刃径 Flute Diameter D	有效长 Effective length L1	刃长 Flute length L2	PCD层 PCD length	全长 Total length L	柄径 Shank Diameter d
HBE010	○	0.1	0.2	0.6	0.2	1	50	4
HBE015	○	0.15	0.3	0.9	0.3	1	50	4
HBE020	○	0.2	0.4	1.2	0.4	1	50	4
HBE025	○	0.25	0.5	1.5	0.5	1	50	4
HBE030	○	0.3	0.6	1.8	0.6	1	50	4
HBE040	○	0.4	0.8	2.4	0.8	1	50	4
HBE050	○	0.5	1.0	3.0	1.0	1	50	4
HBE060	○	0.6	1.2	3.6	1.2	1	50	4
HBE070	○	0.7	1.4	4.2	1.4	1	50	4
HBE075	○	0.75	1.5	4.5	1.5	2	50	4
HBE080	○	0.8	1.6	4.8	1.5	2	50	4
HBE090	○	0.9	1.8	5.4	1.5	2	50	4
HBE100	○	1.0	2.0	6.0	1.5	2	50	4
HBE150	○	1.5	3.0	9.0	2.0	3	50	4

●标准库存standard stock ○订单生产order production

切削参数表 Standard Drilling Conditions

被削材 Work Material	铝合金 Aluminum Alloy			高硅铝 High silicon Aluminum			陶瓷 Machinable Ceramics			石英 Quartz Glass			铜和铜合金 Copper and Copper Alloy			MMC (陶瓷30%) MMC(Ceramics30%)			碳纤维 Carbon			石墨 Graphite		
	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	回转速 Speed min	进给量 Feed mm/rev	回转速 Speed min	进刀量 Depth of cut mm	进给量 Feed mm/rev	回转速 Speed min	进刀量 Depth of cut mm	进给量 Feed mm/rev	回转速 Speed min	进给量 Feed mm/rev	回转速 Speed min	进刀量 Depth of cut mm	进给量 Feed mm/rev	回转速 Speed min	进给量 Feed mm/rev	回转速 Speed min	进刀量 Depth of cut mm	进给量 Feed mm/rev	回转速 Speed min	进给量 Feed mm/rev	回转速 Speed min	
0.1	60000	360	50000	250	50000	0.02	70	20000	0.01	50000	250	0.003	0.01	50000	150	50000	150	0.003	0.01	50000	270	50000	400	50000
0.15	60000	420	50000	300	50000	0.03	75	14000	0.015	50000	300	0.005	0.015	50000	170	43000	170	0.005	0.015	50000	320	50000	450	50000
0.2	60000	450	50000	340	50000	0.06	80	10000	0.02	48000	360	0.01	0.02	50000	180	32000	180	0.01	0.02	50000	360	50000	500	50000
0.25	60000	550	50000	400	50000	0.07	8500	8500	0.03	38000	450	0.015	0.03	50000	200	26000	200	0.015	0.03	50000	380	50000	550	50000
0.3	60000	640	50000	480	50000	0.05	90	7000	0.02	32000	540	0.02	0.05	50000	220	22000	220	0.02	0.05	50000	420	50000	600	50000
0.4	60000	720	50000	540	50000	0.1	100	5200	0.03	24000	600	0.03	0.08	50000	240	16000	240	0.03	0.08	50000	500	50000	650	50000
0.5	60000	750	50000	600	50000	0.1	120	4200	0.03	20000	750	0.03	0.1	50000	300	12000	300	0.03	0.1	50000	500	50000	680	50000
0.6	60000	780	50000	650	50000	0.1	120	3500	0.03	16000	800	0.03	0.15	50000	320	10800	320	0.03	0.15	50000	500	50000	720	50000
0.7	60000	800	50000	720	50000	0.15	150	3000	0.05	13500	900	0.05	0.15	42000	360	9200	360	0.05	0.15	50000	600	50000	800	50000
0.75	60000	800	50000	720	50000	0.15	150	2800	0.05	12800	900	0.05	0.2	42000	360	8600	360	0.05	0.2	50000	600	50000	800	50000
0.8	60000	800	50000	720	50000	0.15	150	2700	0.05	12000	900	0.05	0.2	42000	360	8000	360	0.05	0.2	50000	600	50000	800	50000
0.9	60000	900	50000	800	50000	0.15	150	2400	0.05	10500	850	0.05	0.25	38000	400	7200	400	0.05	0.25	45000	650	50000	850	50000
1	60000	1000	50000	900	50000	0.2	140	2100	0.08	9500	850	0.08	0.3	34000	450	6500	450	0.08	0.3	40000	700	50000	900	50000
1.5	44000	1300	32000	1000	32000	0.2	130	1400	0.08	6700	740	0.08	0.5	23000	500	4500	500	0.08	0.5	26000	750	35000	1000	35000

PCE1-PCD Straight endmill 1 flute
PCE1-金刚石直刃铣刀 (单刃)



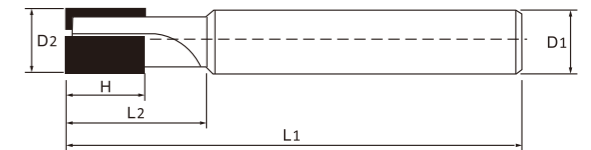
型号 Model	库存 Stock	D1 柄径	D2 刃径	L1 全长	L2 切深	H 刃长	Z 齿数
PCE1-2.0X6	○	6	2	50	5-8	3	1
PCE1-2.5X6	○	6	2.5	50	5-8	4	1
PCE1-3.0X6	○	6	3	50	5-8	5	1
PCE1-3.5X6	○	6	3.5	50	5-8	5	1
PCE1-4.0X6	○	6	4	50	8-10	6	1
PCE1-5.0X6	○	6	5	50	8-10	6	1
PCE1-6.0X6	○	6	6	50	10-15	8	1
PCE1-7.0X6	○	6	7	50	10-15	8	1
PCE1-8.0X8	○	8	8	60	15-20	10	1
PCE1-8.5X8	○	8	8.5	60	15-20	10	1
PCE1-9.0X8	○	8	9	60	15-20	10	1
PCE1-10.0X10	○	10	10	70	15-20	12	1
PCE1-11.0X10	○	10	11	70	15-20	12	1
PCE1-10.0X12	○	12	10	70	15-20	15	1
PCE1-12.0X12	○	12	12	70	15-20	15	1
PCE1-14.0X14	○	14	14	70	15-20	15	1
PCE1-15.0X16	○	16	15	70	22-28	18	1
PCE1-16.0X16	○	16	16	70	22-28	18	1

●标准库存 standard stock ○订单生产 order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○ 首选 Preferred ○ 可选 optional

PCE2-PCD Straight endmill 2 flute
PCE2-金刚石直刃铣刀 (双刃)



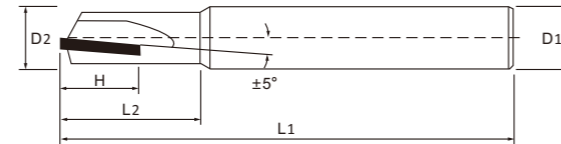
型号 Model	库存 Stock	D1 柄径	D2 刃径	L1 全长	L2 切深	H 刃长	Z 齿数
PCE2-2.0X6	○	6	2	50	5-8	3	2
PCE2-2.5X6	○	6	2.5	50	5-8	4	2
PCE2-3.0X6	○	6	3	50	5-8	5	2
PCE2-3.5X6	○	6	3.5	50	5-8	5	2
PCE2-4.0X6	○	6	4	50	8-10	6	2
PCE2-5.0X6	○	6	5	50	8-10	6	2
PCE2-6.0X6	○	6	6	50	10-15	8	2
PCE2-7.0X6	○	6	7	50	10-15	8	2
PCE2-8.0X8	○	8	8	60	15-20	10	2
PCE2-8.5X8	○	8	8.5	60	15-20	10	2
PCE2-9.0X8	○	8	9	60	15-20	10	2
PCE2-10.0X10	○	10	10	70	15-20	12	2
PCE2-11.0X10	○	10	11	70	15-20	12	2
PCE2-10.0X12	○	12	10	70	15-20	15	2
PCE2-12.0X12	○	12	12	70	15-20	15	2
PCE2-14.0X14	○	14	14	70	15-20	15	2
PCE2-15.0X16	○	16	15	70	22-28	18	2
PCE2-16.0X16	○	16	16	70	22-28	18	2

●标准库存 standard stock ○订单生产 order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○ 首选 Preferred ○ 可选 optional

PCES1-PCD Spiral endmill 1 flute
PCES1-金刚石螺旋刃铣刀 (单刃)



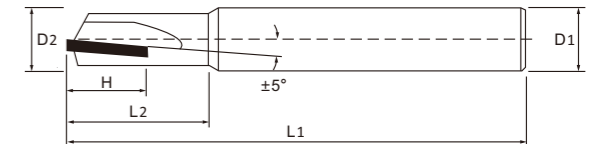
型号 Model	库存 Stock	D1 柄径	D2 刃径	L1 全长	L2 切深	H 刃长	Z 齿数
PCES1-2.0X6	○	6	2	50	5-8	3	1
PCES1-2.5X6	○	6	2.5	50	5-8	4	1
PCES1-3.0X6	○	6	3	50	5-8	5	1
PCES1-3.5X6	○	6	3.5	50	5-8	5	1
PCES1-4.0X6	○	6	4	50	8-10	6	1
PCES1-5.0X6	○	6	5	50	8-10	6	1
PCES1-6.0X6	○	6	6	50	10-15	8	1
PCES1-7.0X6	○	6	7	50	10-15	8	1
PCES1-8.0X8	○	8	8	60	15-20	10	1
PCES1-8.5X8	○	8	8.5	60	15-20	10	1
PCES1-9.0X8	○	8	9	60	15-20	10	1
PCES1-10.0X10	○	10	10	70	15-20	12	1
PCES1-11.0X10	○	10	11	70	15-20	12	1
PCES1-10.0X12	○	12	10	70	15-20	15	1
PCES1-12.0X12	○	12	12	70	15-20	15	1
PCES1-14.0X14	○	14	14	70	15-20	15	1
PCES1-15.0X16	○	16	15	70	22-28	18	1
PCES1-16.0X16	○	16	16	70	22-28	18	1

●标准库存standard stock ○订单生产order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○ 首选Preferred ○ 可选optional

PCES2-PCD Spiral endmill 2 flute
PCES2-金刚石螺旋刃铣刀 (双刃)



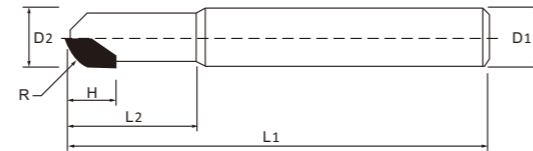
型号 Model	库存 Stock	D1 柄径	D2 刃径	L1 全长	L2 切深	H 刃长	Z 齿数
PCES2-2.0X6	○	6	2	50	5-8	3	2
PCES2-2.5X6	○	6	2.5	50	5-8	4	2
PCES2-3.0X6	○	6	3	50	5-8	5	2
PCES2-3.5X6	○	6	3.5	50	5-8	5	2
PCES2-4.0X6	○	6	4	50	8-10	6	2
PCES2-5.0X6	○	6	5	50	8-10	6	2
PCES2-6.0X6	○	6	6	50	10-15	8	2
PCES2-7.0X6	○	6	7	50	10-15	8	2
PCES2-8.0X8	○	8	8	60	15-20	10	2
PCES2-8.5X8	○	8	8.5	60	15-20	10	2
PCES2-9.0X8	○	8	9	60	15-20	10	2
PCES2-10.0X10	○	10	10	70	15-20	12	2
PCES2-11.0X10	○	10	11	70	15-20	12	2
PCES2-10.0X12	○	12	10	70	15-20	15	2
PCES2-12.0X12	○	12	12	70	15-20	15	2
PCES2-14.0X14	○	14	14	70	15-20	15	2
PCES2-15.0X16	○	16	15	70	22-28	18	2
PCES2-16.0X16	○	16	16	70	22-28	18	2

●标准库存standard stock ○订单生产order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○ 首选Preferred ○ 可选optional

PCB1- PCD Ball endmill 1 flute
PCB1-金刚石球头铣刀 (单刃)



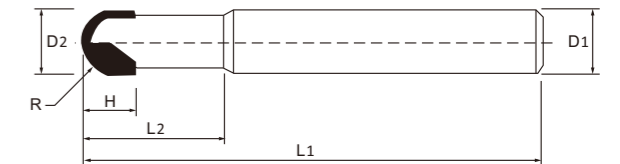
型号 Model	库存 Stock	D1 柄径	D2 刃径	L1 全长	L2 切深	H 刃长	Z 齿数	R 半径
PCB1-R1.0X6	○	6	2	50	5-8	3	1	1.5
PCB1-R1.75X6	○	6	3.5	50	5-8	3	1	1.75
PCB1-R2.0X6	○	6	4	50	8-10	4	1	2
PCB1-R2.5X6	○	6	5	50	8-10	5	1	2.5
PCB1-R3.0X6	○	6	6	50	10-15	6	1	3
PCB1-R3.5X6	○	6	7	50	10-15	6	1	3.5
PCB1-R4.0X8	○	8	8	60	15-20	7	1	4
PCB1-R4.25X8	○	8	8.5	60	15-20	8	1	4.25
PCB1-R4.5X8	○	8	9	60	15-20	8	1	4.5
PCB1-R5.0X10	○	10	10	70	15-20	8	1	5
PCB1-R5.5X10	○	10	11	70	15-20	9	1	5.5
PCB1-R5.0X12	○	12	10	70	18-25	9	1	5
PCB1-R6.0X12	○	12	12	70	18-25	10	1	6
PCB1-R7.0X14	○	14	14	70	18-25	10	1	7
PCB1-R7.5X16	○	16	15	70	22-28	11	1	7.5
PCB1-R8.0X16	○	16	16	70	22-28	12	1	8

● 标准库存 standard stock ○ 订单生产 order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○ 首选 Preferred ○ 可选 optional

PCB1- PCD Ball endmill 2 flute
PCB1-金刚石球头铣刀 (双刃)



型号 Model	库存 Stock	D1 柄径	D2 刃径	L1 全长	L2 切深	H 刃长	Z 齿数	R 半径
PCB2-R1.0X6	○	6	2	50	5-8	3	2	1.5
PCB2-R1.75X6	○	6	3.5	50	5-8	3	2	1.75
PCB2-R2.0X6	○	6	4	50	8-10	4	2	2
PCB2-R2.5X6	○	6	5	50	8-10	5	2	2.5
PCB2-R3.0X6	○	6	6	50	10-15	6	2	3
PCB2-R3.5X6	○	6	7	50	10-15	6	2	3.5
PCB2-R4.0X8	○	8	8	60	15-20	7	2	4
PCB2-R4.25X8	○	8	8.5	60	15-20	8	2	4.25
PCB2-R4.5X8	○	8	9	60	15-20	8	2	4.5
PCB2-R5.0X10	○	10	10	70	15-20	8	2	5
PCB2-R5.5X10	○	10	11	70	15-20	9	2	5.5
PCB2-R5.0X12	○	12	10	70	18-25	9	2	5
PCB2-R6.0X12	○	12	12	70	18-25	10	2	6
PCB2-R7.0X14	○	14	14	70	18-25	10	2	7
PCB2-R7.5X16	○	16	15	70	22-28	11	2	7.5
PCB2-R8.0X16	○	16	16	70	22-28	12	2	8

● 标准库存 standard stock ○ 订单生产 order production

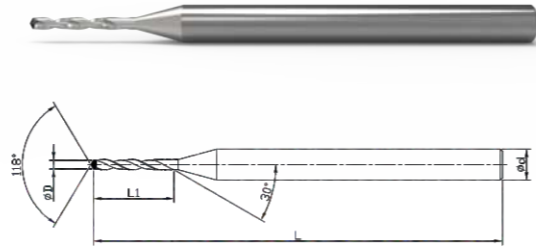
加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○ 首选 Preferred ○ 可选 optional

SCD烧结式定柄金刚石钻头 SCD Sintered diamond drill (endmill shank)



1. 与传统的金刚石钻头相比，由于是整体烧结，可以进行理想的高速加工。
 2. 刃部强度高，不会产生金刚石脱焊问题。
 3. 加工精度高，加工面光洁度好。
 4. 排屑顺畅。几乎不产生粘刀现象。
1. Compared with the traditional diamond bit, it can be used for ideal high-speed machining due to its integral sintering.
2. Because of the high strength of the cutting edge, the problem of diamond desoldering will not occur.
3. It has high machining precision and good surface finish.
4. Chip removal is smooth. Almost no stick knife phenomenon.



型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCD0040	○	0.4	6	40	3
SCD0041	○	0.41	6	40	3
SCD0042	○	0.42	6	40	3
SCD0043	○	0.43	6	40	3
SCD0044	○	0.44	6	40	3
SCD0045	○	0.45	6	40	3
SCD0046	○	0.46	6	40	3
SCD0047	○	0.47	6	40	3
SCD0048	○	0.48	6	40	3
SCD0049	○	0.49	6	40	3
SCD0050	○	0.5	6	40	3
SCD0051	○	0.51	6	40	3
SCD0052	○	0.52	6	40	3
SCD0053	○	0.53	6	40	3
SCD0054	○	0.54	6	40	3
SCD0055	○	0.55	6	40	3
SCD0056	○	0.56	6	40	3
SCD0057	○	0.57	6	40	3
SCD0058	○	0.58	6	40	3
SCD0059	○	0.59	6	40	3
SCD0060	○	0.6	7	40	3
SCD0061	○	0.61	7	40	3
SCD0062	○	0.62	7	40	3
SCD0063	○	0.63	7	40	3
SCD0064	○	0.64	7	40	3
SCD0065	○	0.65	7	40	3
SCD0066	○	0.66	7	40	3
SCD0067	○	0.67	7	40	3
SCD0068	○	0.68	7	40	3
SCD0069	○	0.69	7	40	3
SCD0070	○	0.7	8	40	3
SCD0071	○	0.71	8	40	3
SCD0072	○	0.72	8	40	3
SCD0073	○	0.73	8	40	3
SCD0074	○	0.74	8	40	3

型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCD0075	○	0.75	8	40	3
SCD0076	○	0.76	8	40	3
SCD0077	○	0.77	8	40	3
SCD0078	○	0.78	8	40	3
SCD0079	○	0.79	8	40	3
SCD0080	○	0.8	8	40	3
SCD0081	○	0.81	8	40	3
SCD0082	○	0.82	8	40	3
SCD0083	○	0.83	8	40	3
SCD0084	○	0.84	8	40	3
SCD0085	○	0.85	8	40	3
SCD0086	○	0.86	8	40	3
SCD0087	○	0.87	8	40	3
SCD0088	○	0.88	8	40	3
SCD0089	○	0.89	8	40	3
SCD0090	○	0.9	8	40	3
SCD0091	○	0.91	8	40	3
SCD0092	○	0.92	8	40	3
SCD0093	○	0.93	8	40	3
SCD0094	○	0.94	8	40	3
SCD0095	○	0.95	8	40	3
SCD0096	○	0.96	8	40	3
SCD0097	○	0.97	8	40	3
SCD0098	○	0.98	8	40	3
SCD0099	○	0.99	8	40	3
SCD010	○	1	10	40	3
SCD0101	○	1.01	10	40	3
SCD0102	○	1.02	10	40	3
SCD0103	○	1.03	10	40	3
SCD0104	○	1.04	10	40	3
SCD0105	○	1.05	10	40	3
SCD0106	○	1.06	10	40	3
SCD0107	○	1.07	10	40	3
SCD0108	○	1.08	10	40	3
SCD0109	○	1.09	10	40	3

●标准库存standard stock ○订单生产order production

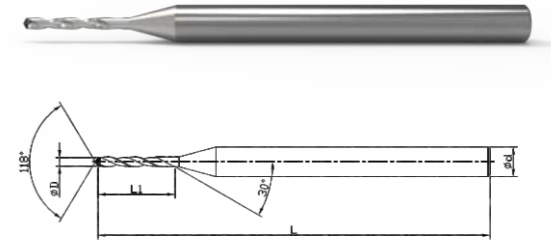
加工材料 Work Material																				
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel	~55 HRC	~60 HRC	~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

SCD烧结式定柄金刚石钻头 SCD Sintered diamond drill (endmill shank)



1. 与传统的金刚石钻头相比，由于是整体烧结，可以进行理想的高速加工。
 2. 刃部强度高，不会产生金刚石脱焊问题。
 3. 加工精度高，加工面光洁度好。
 4. 排屑顺畅。几乎不产生粘刀现象。
1. Compared with the traditional diamond bit, it can be used for ideal high-speed machining due to its integral sintering.
2. Because of the high strength of the cutting edge, the problem of diamond desoldering will not occur.
3. It has high machining precision and good surface finish.
4. Chip removal is smooth. Almost no stick knife phenomenon.



型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCD0110	○	1.1	10	40	3
SCD0111	○	1.11	10	40	3
SCD0112	○	1.12	10	40	3
SCD0113	○	1.13	10	40	3
SCD0114	○	1.14	10	40	3
SCD0115	○	1.15	10	40	3
SCD0116	○	1.16	10	40	3
SCD0117	○	1.17	10	40	3
SCD0118	○	1.18	10	40	3
SCD0119	○	1.19	10	40	3
SCD0120	○	1.2	10	40	3
SCD0121	○	1.21	10	40	3
SCD0122	○	1.22	10	40	3
SCD0123	○	1.23	10	40	3
SCD0124	○	1.24	10	40	3
SCD0125	○	1.25	10	40	3
SCD0126	○	1.26	10	40	3
SCD0127	○	1.27	10	40	3
SCD0128	○	1.28	10	40	3
SCD0129	○	1.29	10	40	3
SCD0130	○	1.3	10	40	3
SCD0131	○	1.31	10	40	3
SCD0132	○	1.32	10	40	3
SCD0133	○	1.33	10	40	3
SCD0134	○	1.34	10	40	3
SCD0135	○	1.35	10	40	3
SCD0136	○	1.36	10	40	3
SCD0137	○	1.37	10	40	3
SCD0138	○	1.38	10	40	3
SCD0139	○	1.39	10	40	3
SCD0140	○	1.4	10	40	3
SCD0141	○	1.41	10	40	3
SCD0142	○	1.42	10	40	3
SCD0143	○	1.43	10	40	3
SCD0144	○	1.44	10	40	3
SCD0145	○	1.45	10	40	3

型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCD0146	○	1.46	10	40	3
SCD0147	○	1.47	10	40	3
SCD0148	○	1.48	10	40	3
SCD0149	○	1.49	10	40	3
SCD0150	○	1.5	10	40	3
SCD0155	○	1.55	10	40	3
SCD0160	○	1.6	22	45	3
SCD0165	○	1.65	22	45	3
SCD0170	○	1.7	22	45	3
SCD0175	○	1.75	22	45	3
SCD0180	○	1.8	22	45	3
SCD0185	○	1.85	22	45	3
SCD0190	○	1.9	22	45	3
SCD0195	○	1.95	22	45	3
SCD0200	○	2	22	45	3
SCD0205	○	2.05	22	45	3
SCD0210	○	2.1	22	45	3
SCD0215	○	2.15	22	45	3
SCD0220	○	2.2	22	45	3
SCD0225	○	2.25	22	45	3
SCD0230	○	2.3	22	45	3
SCD0235	○	2.35	22	45	3
SCD0240	○	2.4	22	45	3
SCD0245	○	2.45	22	45	3
SCD0250	○	2.5	22	45	3
SCD0255	○	2.55	22	45	3
SCD0260	○	2.6	22	45	3
SCD0265	○	2.65	25	50	3
SCD0270	○	2.7	25	50	3
SCD0275	○	2.75	25	50	3
SCD0280	○	2.8	25	50	3
SCD0285	○	2.85	25	50	3
SCD0290	○	2.9	25	50	3
SCD0295	○	2.95	25	50	3
SCD0300	○	3	25	50	3

●标准库存standard stock ○订单生产order production

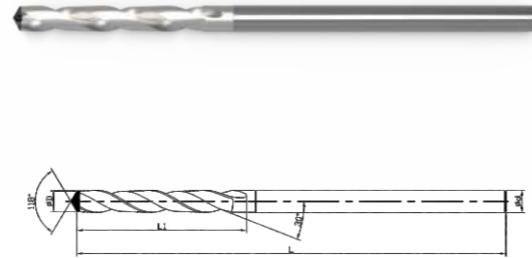
加工材料 Work Material																				
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel	~55 HRC	~60 HRC	~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

SCLD烧结式直柄金刚石钻头 SCLD Sintered diamond drill (straight shank)



1. 与传统的金刚石钻头相比，由于是整体烧结，可以进行理想的高速加工。
 2. 刃部强度高，不会产生金刚石脱焊问题。
 3. 加工精度高，加工面光洁度好。
 4. 排屑顺畅，几乎不产生粘刀现象。
1. Compared with the traditional diamond bit, it can be used for ideal high-speed machining due to its integral sintering.
2. Because of the high strength of the cutting edge, the problem of diamond desoldering will not occur.
3. It has high machining precision and good surface finish.
4. Chip removal is smooth. Almost no stick knife phenomenon.



型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCLD010	○	1	20	75	1
SCLD011	○	1.1	20	75	1.1
SCLD012	○	1.2	20	75	1.2
SCLD013	○	1.3	20	75	1.3
SCLD014	○	1.4	20	75	1.4
SCLD015	○	1.5	20	75	1.5
SCLD016	○	1.6	20	75	1.6
SCLD017	○	1.7	20	75	1.7
SCLD018	○	1.8	20	75	1.8
SCLD019	○	1.9	20	75	1.9
SCLD020	○	2	30	100	2
SCLD021	○	2.1	30	100	2.1
SCLD022	○	2.2	30	100	2.2
SCLD023	○	2.3	30	100	2.3
SCLD024	○	2.4	30	100	2.4
SCLD025	○	2.5	30	100	2.5
SCLD026	○	2.6	30	100	2.6
SCLD027	○	2.7	30	100	2.7
SCLD028	○	2.8	30	100	2.8
SCLD029	○	2.9	30	100	2.9
SCLD030	○	3	40	120	3
SCLD031	○	3.1	40	120	3.1
SCLD032	○	3.2	40	120	3.2
SCLD033	○	3.3	40	120	3.3
SCLD034	○	3.4	40	120	3.4
SCLD035	○	3.5	40	120	3.5
SCLD036	○	3.6	40	120	3.6
SCLD037	○	3.7	40	120	3.7
SCLD038	○	3.8	40	120	3.8
SCLD039	○	3.9	40	120	3.9
SCLD040	○	4	40	120	4
SCLD041	○	4.1	40	120	4.1
SCLD042	○	4.2	40	120	4.2
SCLD043	○	4.3	40	120	4.3
SCLD044	○	4.4	40	120	4.4

型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCLD045	○	4.5	40	120	4.5
SCLD046	○	4.6	40	120	4.6
SCLD047	○	4.7	40	120	4.7
SCLD048	○	4.8	40	120	4.8
SCLD049	○	4.9	40	120	4.9
SCLD050	○	5	60	150	5
SCLD051	○	5.1	60	150	5.1
SCLD052	○	5.2	60	150	5.2
SCLD053	○	5.3	60	150	5.3
SCLD054	○	5.4	60	150	5.4
SCLD055	○	5.5	60	150	5.5
SCLD056	○	5.6	60	150	5.6
SCLD057	○	5.7	60	150	5.7
SCLD058	○	5.8	60	150	5.8
SCLD059	○	5.9	60	150	5.9
SCLD060	○	6	60	150	6
SCLD061	○	6.1	60	150	6.1
SCLD062	○	6.2	60	150	6.2
SCLD063	○	6.3	60	150	6.3
SCLD064	○	6.4	60	150	6.4
SCLD065	○	6.5	60	150	6.5
SCLD066	○	6.6	60	150	6.6
SCLD067	○	6.7	60	150	6.7
SCLD068	○	6.8	60	150	6.8
SCLD069	○	6.9	60	150	6.9
SCLD070	○	7	60	150	7
SCLD071	○	7.1	60	150	7.1
SCLD072	○	7.2	60	150	7.2
SCLD073	○	7.3	60	150	7.3
SCLD074	○	7.4	60	150	7.4
SCLD075	○	7.5	60	150	7.5
SCLD076	○	7.6	60	150	7.6
SCLD077	○	7.7	60	150	7.7
SCLD078	○	7.8	60	150	7.8
SCLD079	○	7.9	60	150	7.9

●标准库存standard stock ○订单生产order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

◎最适合Fit best ○适合Fit

SCLD烧结式直柄金刚石钻头 SCLD Sintered diamond drill (straight shank)

型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCLD080	○	8	80	180	8
SCLD081	○	8.1	80	180	8.1
SCLD082	○	8.2	80	180	8.2
SCLD083	○	8.3	80	180	8.3
SCLD084	○	8.4	80	180	8.4
SCLD085	○	8.5	80	180	8.5
SCLD086	○	8.6	80	180	8.6
SCLD087	○	8.7	80	180	8.7
SCLD088	○	8.8	80	180	8.8
SCLD089	○	8.9	80	180	8.9
SCLD090	○	9	80	200	9
SCLD091	○	9.1	80	200	9.1
SCLD092	○	9.2	80	200	9.2
SCLD093	○	9.3	80	200	9.3
SCLD094	○	9.4	80	200	9.4
SCLD095	○	9.5	80	200	9.5
SCLD096	○	9.6	80	200	9.6
SCLD097	○	9.7	80	200	9.7
SCLD098	○	9.8	80	200	9.8
SCLD099	○	9.9	80	200	9.9
SCLD100	○	10	80	200	10

型号 Model	库存 Stock	尺寸 (mm)			
		ØD	ℓ ₁	L	Ød
SCLD101	○	10.1	80	200	10.1
SCLD102	○	10.2	80	200	10.2
SCLD103	○	10.3	80	200	10.3
SCLD104	○	10.4	80	200	10.4
SCLD105	○	10.5	80	200	10.5
SCLD106	○	10.6	80	200	10.6
SCLD107	○	10.7	80	200	10.7
SCLD108	○	10.8	80	200	10.8
SCLD109	○	10.9	80	200	10.9
SCLD110	○	11	120	250	11
SCLD111	○	11.1	120	250	11.1
SCLD112	○	11.2	120	250	11.2
SCLD113	○	11.3	120	250	11.3
SCLD114	○	11.4	120	250	11.4
SCLD115	○	11.5	120	250	11.5
SCLD116	○	11.6	120	250	11.6
SCLD117	○	11.7	120	250	11.7
SCLD118	○	11.8	120	250	11.8
SCLD119	○	11.9	120	250	11.9
SCLD120	○	12	120	250	12

●标准库存standard stock ○订单生产order production

切削参数表 Standard Drilling Conditions

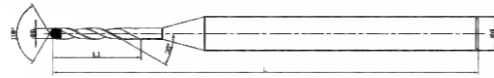
被削材 Work Material	铝合金 Aluminum Alloy		高硅铝 High Silicon Aluminum		铜合金 Copper Alloy		FRP复合材料 Fiber reinforced plastics		MMC(陶瓷30%) MMC(ceramics30%)		镁合金 Magnesium Alloy		工程塑胶 Plastics	
	直径 Drill Dia. mm	回転数 Rotation min ⁻¹	进给速度 Feed mm/rev	回転数 Rotation min ⁻¹	进给速度 Feed mm/rev	回転数 Rotation min ⁻¹	进给速度 Feed mm/rev	回転数 Rotation min ⁻¹	进给速度 Feed mm/rev	回転数 Rotation min ⁻¹	进给速度 Feed mm/rev	回転数 Rotation min ⁻¹	进给速度 Feed mm/rev	回転数 Rotation min ⁻¹	进给速度 Feed mm/rev
0.5	20000	0.005-0.01	12000	0.005-0.01	10000	0.005-0.01	10000	0.005-0.01	10000	0.005-0.01	10000	0.005-0.01	10000	0.005-0.01
1	15000	0.01-0.03	10000	0.01-0.03	10000	0.01-0.03	10000	0.01-0.03	10000	0.01-0.03	10000	0.01-0.03	10000	0.01-0.03
1.5	14000	0.03-0.06	9000	0.03-0.06	10000	0.02-0.05	10000	0.02-0.05	10000	0.02-0.05	10000	0.02-0.05	10000	0.02-0.05
2	13000	0.05-0.15	8000	0.05-0.15	9000	0.03-0.06	9000	0.03-0.06	8500	0.02-0.08	9000	0.03-0.06	9000	0.03-0.06
3	12000	0.08-0.2	8000	0.08-0.2	8000	0.04-0.08	8000	0.04-0.08	8000	0.03-0.1	8000	0.04-0.08	8000	0.04-0.08
4	12000	0.1-0.25	8000	0.1-0.25	7500	0.06-0.12	7500	0.06-0.12	7500	0.04-0.12	7500	0.06-0.12	7500	0.06-0.12
5	12000	0.15-0.3	7000	0.15-0.3	6500	0.08-0.15	6500	0.08-0.15	6500	0.05-0.14	6500	0.08-0.15	6500	0.08-0.15
6	12000	0.15-0.3	6500	0.15-0.3	5500	0.1-0.18	5500	0.1-0.18	5300	0.06-0.15	5500	0.1-0.18	5500	0.1-0.18
7	12000	0.15-0.3	5500	0.15-0.3	5000	0.12-0.2	5000	0.12-0.2	4500	0.07-0.16	5000	0.12-0.2	5000	0.12-0.2
8	12000	0.15-0.3	5000	0.15-0.3	4500	0.12-0.2	4500	0.12-0.2	4000	0.08-0.18	4500	0.12-0.2	4500	0.12-0.2
9	12000	0.15-0.3	4200	0.15-0.3	4000	0.12-0.2	4000	0.12-0.2	3500	0.09-0.19	4000	0.12-0.2	4000	0.12-0.2
10	10000	0.15-0.3	3800	0.15-0.3	3500	0.12-0.2	3500	0.12-0.2	3200	0.1-0.2	3500	0.12-0.2	3500	0.12-0.2
11	9000	0.15-0.3	3500	0.15-0.3	3000	0.12-0.2	3000	0.12-0.2	3000	0.11-0.2	3000	0.12-0.2	3000	0.12-0.2
12	8000	0.15-0.3	3300	0.15-0.3	2800	0.12-0.2	2800	0.12-0.2	2800	0.12-0.2	2800	0.12-0.2	2800	0.12-0.2

HCD焊接式金刚石钻头 HCD Welding diamond drill (end mill shank)



- 直径范围 Tool dia: D0.3-D3.0mm
- 直径公差 Dia tolerance: 0,-0.005mm

- 1、加工精度高，加工面光洁度好。
 - 2、排屑顺畅。几乎不产生粘刀现象。
1. It has high machining precision and good surface finish.
2. Chip removal is smooth. Almost no stick knife phenomenon.



加工材料 Work Material

碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
-------------------------------------	-------------------------------------	---	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

●最适合 ○适合

型号 Model	库存 Stock	尺寸 (mm)				
		ØD	ℓ ₁	L	Ød	PCD Length
HCD030	○	0.3	4	38	3	1
HCD031	○	0.31	4	38	3	1
HCD032	○	0.32	4	38	3	1
HCD033	○	0.33	4	38	3	1
HCD034	○	0.34	4	38	3	1
HCD035	○	0.35	4	38	3	1
HCD036	○	0.36	4	38	3	1
HCD037	○	0.37	4	38	3	1
HCD038	○	0.38	4	38	3	1
HCD039	○	0.39	4	38	3	1
HCD040	○	0.40	5	38	3	1
HCD041	○	0.41	5	38	3	1
HCD042	○	0.42	5	38	3	1
HCD043	○	0.43	5	38	3	1
HCD044	○	0.44	5	38	3	1
HCD045	○	0.45	5	38	3	1
HCD046	○	0.46	5	38	3	1
HCD047	○	0.47	5	38	3	1
HCD048	○	0.48	5	38	3	1
HCD049	○	0.49	5	38	3	1
HCD050	○	0.50	5	38	3	1
HCD051	○	0.51	5	38	3	1
HCD052	○	0.52	5	38	3	1
HCD053	○	0.53	5	38	3	1
HCD054	○	0.54	5	38	3	1
HCD055	○	0.55	5	38	3	1
HCD056	○	0.56	5	38	3	1
HCD057	○	0.57	5	38	3	1
HCD058	○	0.58	5	38	3	1
HCD059	○	0.59	5	38	3	1
HCD060	○	0.60	7	38	3	1
HCD061	○	0.61	7	38	3	1
HCD062	○	0.62	7	38	3	1
HCD063	○	0.63	7	38	3	1
HCD064	○	0.64	7	38	3	1
HCD065	○	0.65	7	38	3	1
HCD066	○	0.66	7	38	3	1
HCD067	○	0.67	7	38	3	1
HCD068	○	0.68	7	38	3	1
HCD069	○	0.69	7	38	3	1
HCD070	○	0.70	8	38	3	1
HCD071	○	0.71	8	38	3	1
HCD072	○	0.72	8	38	3	1
HCD073	○	0.73	8	38	3	1
HCD074	○	0.74	8	38	3	1
HCD075	○	0.75	8	38	3	1

型号 Model	库存 Stock	尺寸 (mm)				
		ØD	ℓ ₁	L	Ød	PCD Length
HCD076	○	0.76	8	38	3	1
HCD077	○	0.77	8	38	3	1
HCD078	○	0.78	8	38	3	1
HCD079	○	0.79	8	38	3	1
HCD080	○	0.80	8	38	3	1
HCD081	○	0.81	8	38	3	1
HCD082	○	0.82	8	38	3	1
HCD083	○	0.83	8	38	3	1
HCD084	○	0.84	8	38	3	1
HCD085	○	0.85	8	38	3	1
HCD086	○	0.86	8	38	3	1
HCD087	○	0.87	8	38	3	1
HCD088	○	0.88	8	38	3	1
HCD089	○	0.89	8	38	3	1
HCD090	○	0.90	8	38	3	1
HCD091	○	0.91	8	38	3	1
HCD092	○	0.92	8	38	3	1
HCD093	○	0.93	8	38	3	1
HCD094	○	0.94	8	38	3	1
HCD095	○	0.95	8	38	3	1
HCD096	○	0.96	8	38	3	1
HCD097	○	0.97	8	38	3	1
HCD098	○	0.98	8	38	3	1
HCD099	○	0.99	8	38	3	1
HCD100	○	1.0	8	38	3	1
HCD101	○	1.01	8	38	3	1
HCD102	○	1.02	8	38	3	1
HCD103	○	1.03	8	38	3	1
HCD104	○	1.04	8	38	3	1
HCD105	○	1.05	8	38	3	1
HCD106	○	1.06	8	38	3	1
HCD107	○	1.07	8	38	3	1
HCD108	○	1.08	8	38	3	1
HCD109	○	1.09	8	38	3	1
HCD110	○	1.1	8	38	3	1
HCD111	○	1.11	8	38	3	1
HCD112	○	1.12	8	38	3	1
HCD113	○	1.13	8	38	3	1
HCD114	○	1.14	8	38	3	1
HCD115	○	1.15	8	38	3	1
HCD116	○	1.16	8	38	3	1
HCD117	○	1.17	8	38	3	1
HCD118	○	1.18	8	38	3	1
HCD119	○	1.19	8	38	3	1
HCD120	○	1.2	8	38	3	1
HCD121	○	1.21	8	38	3	1

●标准库存standard stock ○订单生产order production

www.pcbn.com

HCD焊接式金刚石钻头 HCD Welding diamond drill (end mill shank)

型号 Model	库存 Stock	尺寸 (mm)				
		ØD	ℓ ₁	L	Ød	PCD Length
HCD122	○	1.22	8	38	3	1
HCD123	○	1.23	8	38	3	1
HCD124	○	1.24	8	38	3	1
HCD125	○	1.25	8	38	3	1
HCD126	○	1.26	8	38	3	1
HCD127	○	1.27	8	38	3	1
HCD128	○	1.28	8	38	3	1
HCD129	○	1.29	8	38	3	1
HCD130	○	1.3	8	38	3	1
HCD131	○	1.31	8	38	3	1
HCD132	○	1.32	8	38	3	1
HCD133	○	1.33	8	38	3	1
HCD134	○	1.34	8	38	3	1
HCD135	○	1.35	8	38	3	1
HCD136	○	1.36	8	38	3	1
HCD137	○	1.37	8	38	3	1
HCD138	○	1.38	8	38	3	1
HCD139	○	1.39	8	38	3	1
HCD140	○	1.4	8	38	3	1
HCD141	○	1.41	8	38	3	1
HCD142	○	1.42	8	38	3	1
HCD143	○	1.43	8	38	3	1
HCD144	○	1.44	8	38	3	1
HCD145	○	1.45	8	38	3	1
HCD146	○	1.46	8	38	3	1
HCD147	○	1.47	8	38	3	1
HCD148	○	1.48	8	38	3	1
HCD149	○	1.49	8	38	3	1
HCD150	○	1.5	8	38	3	2
HCD151	○	1.51	8	38	3	2
HCD152	○	1.52	8	38	3	2
HCD153	○	1.53	8	38	3	2
HCD154	○	1.54	8	38	3	2
HCD155	○	1.55	8	38	3	2
HCD156	○	1.56	8	38	3	2
HCD157	○	1.57	8	38	3	2
HCD158	○	1.58	8	38	3	2
HCD159	○	1.59	8	38	3	2
HCD160	○	1.6	8	38	3	2
HCD161	○	1.61	8	38	3	2
HCD162	○	1.62	8	38	3	2
HCD163	○	1.63	8	38	3	2
HCD164	○	1.64	8	38	3	2
HCD165	○	1.65	8	38	3	2
HCD166	○	1.66	8	38	3	2

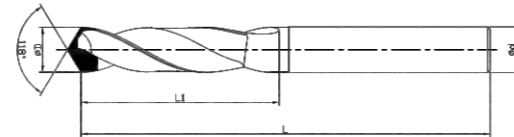
型号 Model	库存 Stock	尺寸 (mm)				
		ØD	ℓ ₁	L	Ød	PCD Length
HCD167	○	1.67	8	38	3	2
HCD168	○	1.68	8	38	3	2
HCD169	○	1.69	8	38	3	2
HCD170	○	1.7	10	38	3	2
HCD171	○	1.71	10	38	3	2
HCD172	○	1.72	10	38	3	2
HCD173	○	1.73	10	38	3	2
HCD174	○	1.74	10	38	3	2
HCD175	○	1.75	10	38	3	2
HCD176	○	1.76	10	38	3	2
HCD177	○	1.77	10	38	3	2
HCD178	○	1.78	10	38	3	2
HCD179	○	1.79	10	38	3	2
HCD180	○	1.8	10	38	3	2
HCD181	○	1.81	10	38	3	2
HCD182	○	1.82	10	38	3	2
HCD183	○	1.83	10	38	3	2
HCD184	○	1.84	10	38	3	2
HCD185	○	1.85	10	38	3	2
HCD186	○	1.86	10	38	3	2
HCD187	○	1.87	10	38	3	2
HCD188	○	1.88	10	38	3	2
HCD189	○	1.89	10	38	3	2
HCD190	○	1.9	10	38	3	2
HCD191	○	1.91	10	38	3	2
HCD192	○	1.92	10	38	3	2
HCD193	○	1.93	10	38	3	2
HCD194	○	1.94	10	38	3	2
HCD195	○	1.95	10	38	3	2
HCD196	○	1.96	10	38	3	2
HCD197	○	1.97	10	38	3	2
HCD198	○	1.98	10	38	3	2
HCD199	○	1.99	10	38	3	2
HCD200	○	2.0	10	38	3	2
HCD210	○	2.1	10	38	3	2
HCD220	○	2.2	10	38	3	2
HCD230	○	2.3	10	38	3	2
HCD240	○	2.4	10	38	3	2
HCD250	○	2.5	10	38	3	2
HCD260	○	2.6	10	38	3	2
HCD270	○	2.7	10	38	3	2
HCD280	○	2.8	10	38	3	2
HCD290	○	2.9	10	38	3	2
HCD300	○	3.0	10	38	3	2

●标准库存standard stock ○订单生产order production

切削参数表 Standard Drilling Conditions

被削材 Work Material	铝合金 Aluminum Alloy		高硅铝 High Silicon Aluminum		铜合金 Copper Alloy		FRP Fiber reinforced plastics		MMCT陶瓷 MMC(ceramics30%)		碳纤维 Carbon		工程塑胶 Plastics	
	切削速度 Speed m/min	进给速度 Feed mm/rev	切削速度 Speed m/min	进给速度 Feed mm/rev	切削速度 Speed m/min	进给速度 Feed mm/rev	切削速度 Speed m/min	进给速度 Feed mm/rev	切削速度 Speed m/min	进给速度 Feed mm/rev	切削速度 Speed m/min	进给速度 Feed mm/rev	切削速度 Speed m/min	进给速度 Feed mm/rev
0.3~1.0	30~70	0.005~0.01	20~60	0.005~0.01	20~60	0.005~0.01	20~60	0.005~0.01	10~40	0.005~0.01	20~60	0.005~0.01	20~60	0.005~0.01
1.01~2.0	40~80	0.01~0.05	30~70	0.01~0.05	30~70	0.01~0.05	30~70	0.02~0.05	20~50	0.02~0.05	30~70	0.01~0.05	30~70	0.01~0.05
2.1~3.0	50~120	0.												

PHD焊接式直柄金刚石钻头 PHD Welding diamond drill (end mill shank)



型号 Model	库存 Stock	尺寸 (mm)		
		D/d	L1	L
PHD020	○	2.0	12	38
PHD035	○	3.5	20	52
PHD040	○	4.0	22	55
PHD055	○	5.5	28	66
PHD060	○	6.0	28	66
PHD075	○	7.5	34	74
PHD090	○	9.0	40	84
PHD105	○	10.5	43	89
PHD120	○	12.0	51	102

● 标准库存 standard stock ○ 订单生产 order production

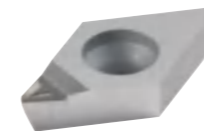
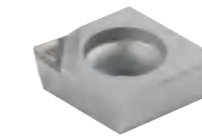
加工材料 Work Material																				
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre- Hardened Steel	淬火钢 Hardness steel	~55 HRC	~60 HRC	~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温 合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程 塑料 Plastics	玻璃 纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎ 最适合 Fit best ○ 适合 Fit



PCD断屑槽金刚石刀片 FA/KPD10 PCD Chipbreaker inserts

P M K N S H



- (1) PCD断屑槽型刀片，效率高、寿命长。
- (2) 可让内孔加工排屑更顺畅，满足高加工表面要求。
- (3) 可防止不顺畅排屑造成的刀具损坏、刀杆断裂、工件报废。

- (1) PCD chipbreaker insert has more high efficiency, long life.
- (2) It can make the hole processing of chip removal more smoothly, and meet the high processing surface requirements.
- (3) It can prevent tool damage, cutter breakage and workpiece scrapping caused by unsmooth chip removal.

排屑效果对比： Turning contrast



带断屑槽
With chipbreaker

不带断屑槽
Without chipbreaker

非标刀具 Non-standard cutter

根据要求制作各种尺寸的非标刀具，提供完美的加工方案，解决以往加工效率差，精度低，表面光洁度差，耗时长等各种问题！

According to the requirements of various sizes of non-standard tool, We can provide perfect machining way to solve the poor efficiency, low accuracy, poor surface finishing, long time consuming problems!



方案配套能力 Scheme supporting capacity



驱动电机壳体 Electric Engine Housing



1、电机壳体粗镗刀
1, Motor shell rough boring cutter

2、电机壳体精镗刀
2, motor shell fine boring cutter

3、高精度电机壳夹具
3, high precision motor housing fixture

机夹式刀片
Machine clip blade

11
19

5°

www.pcbn.com

机夹式刀片

Machine clip blade

D01~D36



刀片编号说明 Insert Identification System	D01
刀片材质说明 Inserts Material Construction	D03
车削刀片材质简介 Turning Insert Grades	D05
车削刀片一览表 Features of Turning Insert	D11
车削刀片(负/正型)系列 Turning blade (negative/positive) series 页码D14-D36	
车削刀片(负型) Turning Inserts (Negative)	D
车削刀片(正型) Turning Inserts (Positive)	D
车削刀片 Turning Insert	D

刀片编号说明
Insert Identification System

C
1

N
2

M
3

G
4

12
5

04
6

04
7

PM
8

1 刀片形状 Insert shape	
A 85° B 82° K 55°	
H 120°	
L 90°	
O 135°	
P 108°	
C 80° D 55° E 75° M 86° V 35°	
R -	
S 90°	
T 60°	
W 80°	

2 刀片后角 Insert clearance angle	
	α
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	特殊 Special

3 精度代号 Tolerance						
	d (±mm)	m (±mm)	s (±mm)	d=6.3/9.525	d=12.7	d=15.8/19.05
A	0.025	0.005	0.025	•	•	•
C	0.025	0.013	0.025	•	•	•
E	0.025	0.025	0.025	•	•	•
F	0.013	0.005	0.025	•	•	•
G	0.025	0.025	0.130	•	•	•
H	0.013	0.013	0.025	•	•	•
J	0.050	0.05	0.025	•	•	•
K	0.080	0.013	0.025	•	•	•
M	0.05	0.08	0.13	•	•	•
N	0.05	0.08	0.025	•	•	•
U	0.08	0.13	0.13	•	•	•
	0.10	0.15	0.025	•	•	•
	0.13	0.20	0.13	•	•	•
	0.18	0.27	0.13	•	•	•

6 刀片厚度 S(mm) Insert thickness	
	01 S=1.59
	T1 S=1.98
	02 S=2.38
	03 S=3.18
	T3 S=3.97
	04 S=4.76
	05 S=5.56
	06 S=6.35
	07 S=7.94
	09 S=9.52

7 刀尖圆角半径 R Corner radius	
	R (mm)
	02 0.2
	04 0.4
	05 0.5
	08 0.8
	12 1.2
	16 1.6
	20 2.0
	24 2.4
	32 3.2

圆形刀片 Round insert
00 内切圆 (英制) Inch
MO 内切圆 (公制) Metric

4 切削槽及夹固形式 Chip-breaker and clamp type	
R 无中心孔 Without hole	Q 圆柱孔+双面倒角 40°60° Cylindrical hole+double countersink
F 无中心孔 Without hole	C 圆柱孔+双面倒角 70°90° Cylindrical hole+double countersink
N 无中心孔 Without hole	G 圆柱孔 Cylindrical hole
A 圆柱孔 Cylindrical hole	T 圆柱孔+单面倒角 40°60° Cylindrical hole+countersink
M 圆柱孔 Cylindrical hole	H 圆柱孔+单面倒角 70°90° Cylindrical hole+countersink
U 圆柱孔+双面倒角 40°60° Cylindrical hole+double countersink	W 圆柱孔+单面倒角 40°60° Cylindrical hole+countersink
J 圆柱孔+双面倒角 70°90° Cylindrical hole+double countersink	B 圆柱孔+单面倒角 70°90° Cylindrical hole+countersink
X 特殊设计 Special	

5 切削刃长度 Insert size							
d mm	C	D	R	S	T	V	W
5.56	05	-	-	05	09	-	03
6.0	-	-	06	-	-	-	-
6.35	06	07	-	06	11	11	04
6.65	-	-	-	-	-	-	-
7.94	07	-	-	07	-	-	-
8.0	-	-	08	-	-	-	-
9.525	09	11	-	09	16	16	06
10.0	-	-	10	-	-	-	-
12.0	-	-	12	-	-	-	-
12.7	12	15	-	12	22	22	08
15.875	16	19	-	15	27	-	10
16.0	-	-	16	-	-	-	-
16.74	-	-	-	16	-	-	-
19.05	19	-	-	19	33	-	13
20.0	-	-	20	-	-	-	-
25.4	25	-	25	25	-	-	-

8 断屑槽型 Chip breaker	
KM	
PM	
MM	
APK	

刀片材质说明

Inserts Material Construction

K P 2120

注册品牌 (Manufacturer brand)	
KOVES®	
刀片材料 (Cutting material)	
W:超细颗粒硬质合金(Carbide uncoated) C:硬质合金CVD涂层(Carbide coated CVD) P:硬质合金PVD涂层 (Carbide coated PVD) T:金属陶瓷 (Cermet uncoated) E:金属陶瓷PVD涂层 (Cermet coated PVD) D:聚晶金刚石 (PCD) B:立方碳化硼 (CBN)	
被加工材料 (Main application material)	
1: 钢 (Steels) 2: 不锈钢 (Stainless steel) 3: 铸铁 (Cast iron) 4: 有色金属 (Light and non-ferrous metal) 5: 铝合金 (Aluminium) 6: 钛合金及高温合金 (Hard materials)	
加工方式 (Main application method)	
1: 车削加工 (Turning) 2: 铣削加工 (Milling) 3: 钻头 (Drilling)	
ISO材质标准 (ISO 513 application range)	
05:ISO K05/P05	10:ISO K10/P10
15:ISO K15/P15	20:ISO K20/P20
25:ISO K25/P25	30:ISO K30/P30
35:ISO K35/P35	40:ISO K40/P40

刀片材质一览表

Summary of Insert Grades

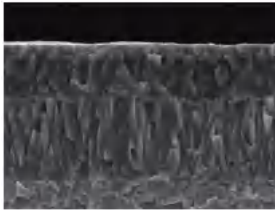
普通车削加工
General Turning

材质符号 Workpiece Material	P 钢 Steel				M 不锈钢 Stainless steel					K 铸铁 Cast Iron				N 有色金属 Nonferrous			S 耐热合金 NRSA				H 高硬材料 Hardness		
	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	N10	N20	N30	S01	S10	S20	S30	H01	H10	H20
CVD 涂层硬质合金 CVD Coated Carbide	KC1115									KC3110													
	KC1125									KC3125													
	KC1135																						
PVD 涂层硬质合金 PVD Coated Carbide						KP2120									KP6105			KP1110					
						KP2130									KP6110								
硬质合金 Uncoated Carbide															KW20								
金属陶瓷 Cermet	KT20									KT20													

车削刀片材质简介 Turning Insert Grades

CVD涂层硬质合金系列
CVD coating carbide inserts

KC1115 适用类型: 精, 半精加工 Cutting Range: Finishing and Semi-finishing



超精细MT-TiCN, Al₂O₃和表面光滑的TiN涂层结构与良好耐磨性的硬质合金基体结合, 具有良好的抗磨损性能, 适合于钢, 合金钢的精, 半精加工。

Super fine MT-TiCN, Al₂O₃ and TiN coating on carbide substrate, smooth surface and superior wear resistance, Application: Suitable for the cutting of steel and alloy steel.



KC1125 适用类型: 半精到轻微粗加工 Cutting Range: Semi-finishing to Light Roughing

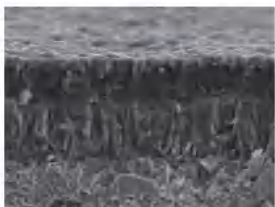


超精细MT-TiCN, Al₂O₃和表面光滑的TiN涂层结构与良好韧性的表面硬质合金基体结合, 具有良好的抗磨损性能的同时韧性比较好, 适合于钢, 合金钢的半精到轻微粗加工。

Super fine MT-TiCN, Al₂O₃ and TiN coating on carbide substrate, smooth surface, superior wear resistance and improved toughness upgraded from KC1125, Application: Suitable for the cutting of steel and alloy steel under interrupted conditions.



KC1135 适用类型: 半精到轻微粗加工 Cutting Range: Semi-finishing to Light Roughing



超精细MT-TiCN, Al₂O₃和表面光滑的TiN涂层结构与良好韧性的表面硬质合金基体结合, 具有良好的抗磨损性能的同时韧性比较好, 适合于钢, 合金钢的半精到轻微粗加工。

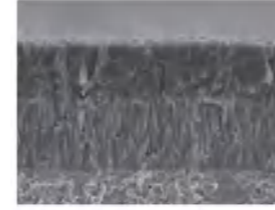
Super fine MT-TiCN, Al₂O₃ and TiN coating on carbide substrate, smooth surface, superior wear resistance and improved toughness upgraded from KC1125, Application: Suitable for the cutting of steel and alloy steel under interrupted conditions.



车削刀片材质简介 Turning Insert Grades

CVD涂层硬质合金系列
CVD coating carbide inserts

KC3110 适用类型: 铸铁加工的半精, 粗加工 Cutting Range: For Cast iron Semi-finishing to Roughing

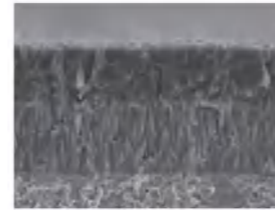


专为铸铁切削加工推出的新牌号。高耐磨性细晶粒基体与厚的Al₂O₃涂层完美结合, 在具有良好耐磨性的同时, 韧性大幅度提高, 适用于韧性要求高的恶劣工况。

New grade, special for iron cutting. Al₂O₃ and coated on thick micro-grain carbide substrate, superior wear resistance and greatly improved toughness. Suitable for bad machining conditions which require high toughness.



KC3125 适用类型: 球墨铸铁加工的半精, 粗加工 Cutting Range: For Cast iron Semi-finishing to Roughing



专为球墨铸铁切削加工推出的新牌号。高耐磨性细晶粒基体与厚的Al₂O₃涂层完美结合, 在具有良好耐磨性的同时, 韧性大幅度提高, 适用于韧性要求高的恶劣工况。

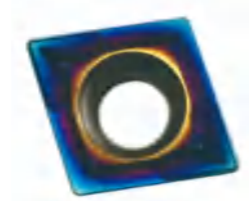
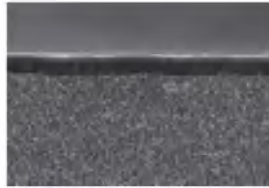
New grade, special for iron cutting. Al₂O₃ and coated on thick micro-grain carbide substrate, superior wear resistance and greatly improved toughness. Suitable for bad machining conditions which require high toughness.



车削刀片材质简介 Turning Insert Grades

PVD涂层硬质合金系列
PVD coating carbide inserts

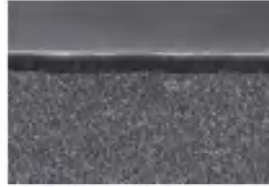
KP1110 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing



TiAlN涂层与超细颗粒的强韧性基体相结合,具有良好的抗积屑瘤特性,能延长刀具寿命,适合于高碳钢的精加工及半精加工

TiAlN coating on super micro-grain carbide substrate with good toughness, superior adhesion resistance and longer tool life
Application: Suitable for stainless steel cutting

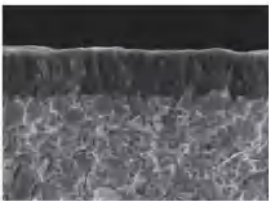
KP2120 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing



TiAlN涂层与超细颗粒的强韧性基体相结合,具有良好的抗积屑瘤特性,能延长刀具寿命,适合于不锈钢的精加工及半精加工

TiAlN coating on super micro-grain carbide substrate with good toughness, superior adhesion resistance and longer tool life
Application: Suitable for stainless steel cutting

KP2130 适用类型：半精到轻微粗加工
Cutting Range: Semi-finishing to Light Roughing



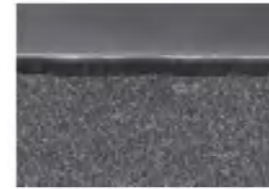
韧性好的基体和TiCN, TiN涂层相结合, 具有良好耐热冲击性和耐机械冲击性, 适合于不锈钢的半精加工和粗加工, 亦可用于断续切削。

TiCN and TiN coating on good toughness carbide substrate, superior resistance to thermal shock and mechanical shock,
Application: Suitable for stainless steel cutting and interrupted cutting.

车削刀片材质简介 Turning Insert Grades

PVD涂层硬质合金系列
PVD coating carbide inserts

KP6105 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing



TiAlN涂层与超细颗粒的强韧性基体相结合,具有良好的抗积屑瘤特性,能延长刀具寿命,适合于钛合金/高温合金的精加工及半精加工

TiAlN coating on super micro-grain carbide substrate with good toughness, superior adhesion resistance and longer tool life
Application: Suitable for stainless steel cutting

KP6110 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing



TiAlN涂层与超细颗粒的强韧性基体相结合,具有良好的抗积屑瘤特性,能延长刀具寿命,适合于不锈钢, 钛合金, 高温合金的精加工及半精加工

TiAlN coating on super micro-grain carbide substrate with good toughness, superior adhesion resistance and longer tool life
Application: Suitable for stainless steel cutting

车削刀片材质简介 Turning Insert Grades

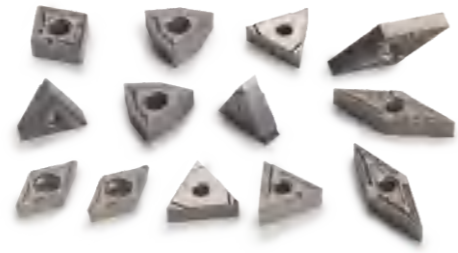
金属陶瓷牌号
Cermet Grades

KT20



钢, 铸铁, 不锈钢通用牌号; 车, 铣削兼用, 高耐磨损性及韧性兼备.

For turning and milling of steel, cast iron and stainless,
High wear resistance and good roughness



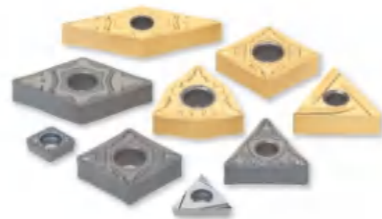
涂层金属陶瓷牌号
Coating Cermet Grades

KCT20



钢, 铸铁, 不锈钢通用牌号; 车, 铣削兼用, 高耐磨损性及韧性兼备.

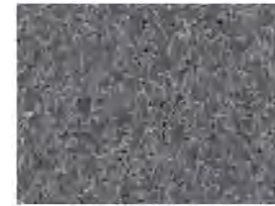
For turning and milling of steel, cast iron and stainless,
High wear resistance and good roughness



车削刀片材质简介 Turning Insert Grades

加工 N 类材料牌号
Grades for N applications

KW20



细颗粒硬质合金基体, 具有高的硬度和良好的耐磨性, 适合于铜, 铝合金的加工, 表面抛光处理, 减少积屑瘤的产生.

Micro-grain carbide substrate with high hardness and superior wear resistance
Application: copper alloys and aluminum alloys
Buffed on top face reduced built-up edge



KCW20


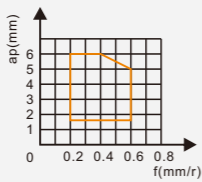


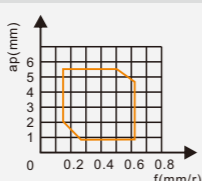

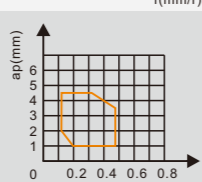

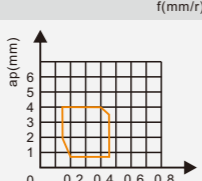

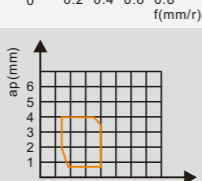
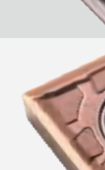
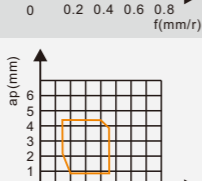
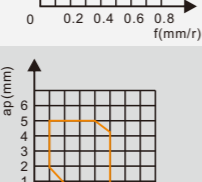


细颗粒硬质合金基体, 具有高的硬度和良好的耐磨性, 适合于铜, 铝合金的加工, 表面抛光处理, 减少积屑瘤的产生.


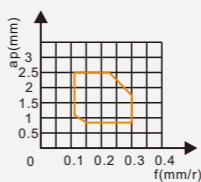

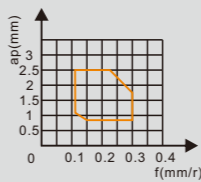

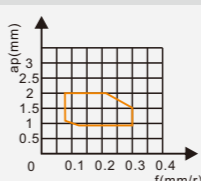

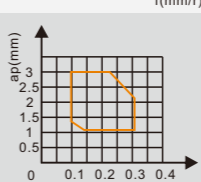

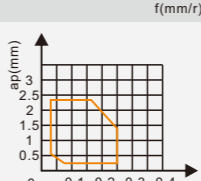

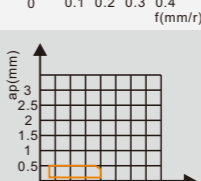

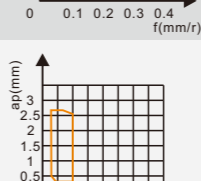

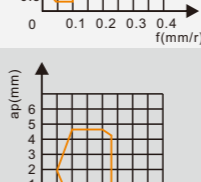
Micro-grain carbide substrate with high hardness and superior wear resistance
Application: copper alloys and aluminum alloys
Buffed on top face reduced built-up edge



车削刀片一览表
Features of Turning Insert
车削刀片(负型)
Turning Inserts (Negative)

槽型 Chipbreaker	刀片外形 Shape	断屑范围 Applicable Chipbreaker Range	特点 Features
无 None			无断屑槽, 平板刀片 刀尖强度高, 刀片落位稳定, 最适于断续切削等不稳定切削 Without chip breaker, Flat-top. Stable placement Strong edge design for intermittent cutting conditions.
KM			双面断屑槽 切削刃口强度高, 中等切削条件下加工表现优越 Double-sided chipbreaker Strong cutting edge and wide land for improved performance
KR			碳钢, 铸钢及合金钢粗加工用 变前角和变刃宽相结合满足不同切深的切削刃锋利性和强度要求 For rough machining of carbon steel, cast steel and alloy steel The combination of variable rake angle and variable edge width can meet the requirements of sharpness and strength of cutting edges with different cutting depths
PM			普通钢, 合金钢半精加工用 双面断屑槽 扁平棱边刃形, 切削强度高 For semi-finishing of general steel and alloy steel Double-sided chip breaker Strong flat cutting edge
MM			不锈钢, 软钢中切削用 双面断屑槽 尖锐切削刃, 切削锋利度高 For medium cutting of stainless steel and mild steel Double-sided chip breaker Sharp cutting edge
MH			钢件和不锈钢的半精加工。 双前角设计, 切削轻快, 加强型刀尖。 开放型断屑槽, 断屑和排屑效果理想, 断屑范围广 Semi finishing of steel parts and stainless steel. Double rake angle design, light cutting, reinforced tool tip Open chip breaking groove, ideal chip breaking and chip removal effect, wide chip breaking range
SM			用于高温合金和钛合金的半精加工, 具有高强度的刃口和正前角, 切削轻快! For semi finishing of superalloys and titanium alloys, With high strength cutting edge and positive rake angle, cutting is light and fast!
AH			双面断屑槽 刀尖锋利和切削刃强劲 Double-sided chip breaker Sharp tool nose and strong cutting edge

车削刀片一览表
Features of Turning Insert
车削刀片(正型)
Turning Inserts (Positive)

槽型 Chipbreaker	刀片外形 Shape	断屑范围 Applicable Chipbreaker Range	特点 Features
GPK			扁平棱边与双角组合, 同时确保刀尖强度与切削锋利度 Strong tool nose due to flat cutting edge and sharp cutting edge due to double rake angle.
TMP			独特的槽型设计在保证刃口锋利的基础上,增加了刀片的抗冲击力 能够有效避免刀片切削堆积,适用于钢件,不锈钢的半精加工 Special chip breaker design to keep both sharp cutting edge and good impact resistance which can efficiently avoid accumulated and suited for semi-finishing steel and stainless steel.
无 None			钢件和不锈钢内孔的精加工到半精加工, 简洁的断屑槽设计, 通用性强, 应用范围广 Finishing to semi finishing of steel parts and stainless steel inner holes, simple chip breaking groove design, Strong universality and wide application range
SM			高温合金和钛合金的半精加工到中加工, 刃倾角设计保证低切削力, 良好的断屑控制源于专业的断屑槽设计 Semi finish machining to medium machining of super alloys and titanium alloys, and the blade inclination design ensures low cutting force, Good chip breaking control comes from professional chip breaking groove design
SA			用于不锈钢和高温合金的超精加工到精加工, 在低进给和小切深时具备卓越的断屑效果, 在加工时能得到良好的表面光洁度和更长的刀具寿命 For superfinishing to finishing of stainless steel and superalloys, Excellent chip breaking effect at low feed and small cutting depth, Good surface finish and longer tool life can be obtained during machining
R/L-F			精加工 控制切屑流向, 切削阻力小 Finishing control cutting flow direction which can reduce the cutting resistance
R/L-U			适用于精加工和半精加工 低进给条件下, 即使切深变化也能控制切屑, Suitable for finishing and semi-finishing, it can control the chip even under low feed conditions.
APK			铝合金切削用 大前角, 刀尖锋利度高 For aluminum alloy cutting Sharp tool nose due to large rake angle

非标刀具

Non-standard cutter

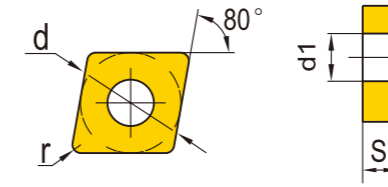
根据要求制作各种尺寸的非标刀具，提供完美的加工方案，解决以往加工效率差，精度低，表面光洁度差，耗时长等各种问题！

According to the requirements of various sizes of non-standard tool, We can provide perfect machining way to solve the poor efficiency, low accuracy, poor surface finishing, long time consuming problems!



车削刀片(负型) Turning Inserts (Negative)

CN..



型号 Model	尺寸 Size (mm)		
	d	s	d1
CN..0903 ...	9.525	3.18	3.81
CN..1204 ...	12.7	4.76	5.16
CN..1606 ...	15.88	6.35	6.35
CN..1906 ...	19.05	6.35	7.94
CN..2509 ...	25.4	9.53	9.12

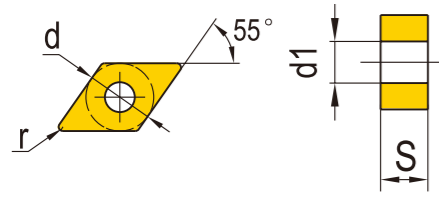
刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																			
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20						
粗加工 Roughing	CNMA120408	0.8	0.25-0.70	3.0-7.0	●																			
	CNMA120412	1.2	0.25-0.70	3.0-7.0	●																			
半精加工 Semi-Finishing	CNMG120408KM	0.8	0.17-0.55	1.2-5.0	●																			
	CNMG120412KM	1.2	0.20-0.55	1.5-5.0	●																			
粗加工 Roughing	CNMG120408KR	0.8	0.20-0.60	1.20-6.4		●			●															
	CNMG120412KR	1.2	0.30-0.90	1.80-6.4		●			●															
	CNMG160608KR	0.8	0.20-0.60	1.20-8.1		●			●															
	CNMG160612KR	1.2	0.30-0.90	1.80-8.1		●			●															
半精加工 Semi-Finishing	CNMG120404PM	0.4	0.12-0.52	0.7-4.8			●	●																
	CNMG120408PM	0.8	0.12-0.52	0.7-4.8			●	●																
	CNMG120412PM	1.2	0.12-0.52	0.7-4.8			●	●																
半精加工 Semi-Finishing	CNMG120404MM	0.4	0.10-0.50	0.5-5.0										●	●									
	CNMG120408MM	0.8	0.12-0.50	0.5-5.0										●	●									
半精加工 Semi-Finishing	CNMG120404MH	0.4	0.07-0.20	0.34-3.9										●	●									
	CNMG120408MH	0.8	0.14-0.40	0.68-3.9										●	●									
	CNMG120412MH	1.2	0.20-0.60	1.02-3.9										●	●									
半精加工 Semi-Finishing	CNMG120404SM	0.4	0.08-0.22	0.40-4.3															●	●				
	CNMG120408SM	0.8	0.15-0.44	0.80-4.3															●	●				
半精加工 Semi-Finishing	CNMG120404MT	0.4	0.15-0.40	1.0-5.0																●	●			
	CNMG120408MT	0.8	0.17-0.55	1.2-5.0																●	●			
半精加工 / 精加工 Semi-finishing/Finishing	CNMG120402AH	0.2	0.05-0.20	0.8-3.5																		●	●	
	CNMG120404AH	0.4	0.10-0.40	0.8-3.5																		●	●	
	CNMG120408AH	0.8	0.13-0.55	0.8-3.5																		●	●	
钢 Steel									★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
不锈钢 Stainless Steel														★	★	★	★	★	★	★	★	★	★	★
铸铁 Cast Iron									★	★														
有色金属 Nonferrous Metal																							★	★
耐热合金 Heat Resistant Alloy														☆	☆	☆	★	★	★	★	★	★	★	★
淬硬钢 Hardened Steel																								★

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

车削刀片(负型)
Turning Inserts (Negative)

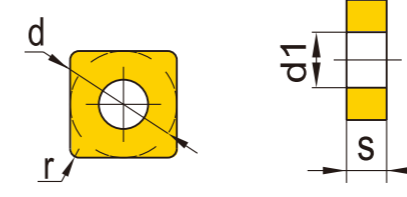
DN..



型号 Model	尺寸 Size (mm)		
	d	s	d1
DN..1104..	9.525	4.76	3.81
DN..1504..	12.7	4.76	5.16
DN..1506..	12.7	6.35	5.16

车削刀片(负型)
Turning Inserts (Negative)

SN..



型号 Model	尺寸 Size (mm)		
	d	s	d1
SN..1204..	12.7	4.76	5.16
SN..1506..	15.88	6.35	6.35
SN..1906..	19.05	6.35	7.94
SN..2509..	25.4	9.53	9.12

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application															
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20		
粗加工 Roughing	DNMA150408	0.8	0.25-0.70	3.0-7.0	●															
	DNMA150412	1.2	0.25-0.70	3.0-7.0	●															
半精加工 Semi-Finishing	DNMG150408KM	0.8	0.17-0.50	1.0-4.0	●															
	DNMG150412KM	1.2	0.20-0.50	1.3-4.0	●															
粗加工 Roughing	DNMG150408KR	0.8	0.20-0.60	1.20-5.4		●		●												
	DNMG150412KR	1.2	0.30-0.90	1.80-5.4		●		●												
	DNMG150608KR	0.8	0.20-0.60	1.20-5.1		●		●												
	DNMG150612KR	1.2	0.30-0.90	1.80-5.4		●		●												
半精加工 Semi-Finishing	DNMG150404PM	0.4	0.12-0.52	0.7-4.8			●	●												
	DNMG150408PM	0.8	0.12-0.52	0.7-4.8			●	●												
	DNMG150604PM	0.4	0.12-0.52	0.7-4.8			●	●												
	DNMG150608PM	0.8	0.12-0.52	0.7-4.8			●	●												
	DNMG150612PM	1.2	0.12-0.52	0.7-4.8			●	●												
	DNMG150404MH	0.4	0.07-0.20	0.34-3.5						●	●									
半精加工 Semi-Finishing	DNMG150408MH	0.8	0.14-0.40	0.68-3.5						●	●									
	DNMG150404SM	0.4	0.08-0.22	0.40-3.9							●	●								
半精加工 Semi-Finishing	DNMG150408SM	0.8	0.15-0.44	0.80-3.9							●	●								
	DNMG150404MM	0.4	0.10-0.50	0.5-5.0								●	●							
半精加工 Semi-Finishing	DNMG150408MM	0.8	0.12-0.50	0.5-5.0								●	●							
	DNMG150404R-VF	0.4	0.15-0.40	0.8-4.0										●						
半精加工 Semi-Finishing	DNMG150408R-VF	0.8	0.17-0.50	1.0-4.0											●					
	钢 Steel					★	★	★	★	☆	☆	☆	☆	☆	☆	★	★			
不锈钢 Stainless Steel																				
铸铁 Cast Iron						★	★													
有色金属 Nonferrous Metal																				★
耐热合金 Heat Resistant Alloy										☆	☆	★	★							
淬硬钢 Hardened Steel																				★

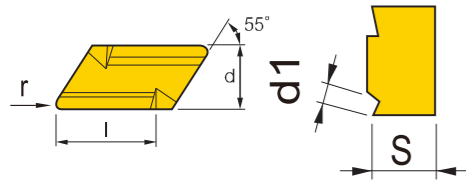
★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20			
粗加工 Roughing	SNMA120408	0.8	0.25-0.70	3.0-7.0	●																
	SNMA120412	1.2	0.25-0.70	3.0-7.0	●																
半精加工 Semi-Finishing	SNMG120408KM	0.8	0.17-0.55	1.2-5.0	●																
	SNMG120412KM	1.2	0.20-0.55	1.5-5.0	●																
粗加工 Roughing	SNMG120408KR	0.8	0.20-0.60	0.80-5.2		●		●													
	SNMG120412KR	1.2	0.30-0.90	1.20-5.2		●		●													
	SNMG120416KR	1.6	0.40-1.20	1.60-5.2		●		●													
	SNMG150608KR	0.8	0.20-0.60	1.20-7.9		●		●													
	SNMG150612KR	1.2	0.30-0.90	1.80-7.9		●		●													
	SNMG150616KR	1.6	0.40-1.20	2.40-7.9		●		●													
	SNMG190612KR	1.2	0.30-0.90	1.80-9.5		●		●													
	SNMG190616KR	1.6	0.10-1.20	2.40-9.5		●		●													
半精加工 Semi-Finishing	SNMG120404PM	0.4	0.15-0.50	1.2-5.0			●	●													
	SNMG120408PM	0.8	0.15-0.50	1.2-5.0			●	●													
半精加工 Semi-Finishing	SNMG120404MM	0.4	0.10-0.50	0.5-5.0								●	●								
	SNMG120408MM	0.8	0.12-0.50	0.5-5.0								●	●								
半精加工 Semi-Finishing	SNMG120404MH	0.4	0.07-0.20	0.34-3.8								●	●								
	SNMG120408MH	0.8	0.14-0.40	0.68-3.8								●	●								
半精加工 Semi-Finishing	SNGG120404R-C	0.4	0.15-0.30	1.0-4.0																●	
	SNGG120408R-C	0.8	0.15-0.35	1.0-4.0																●	
钢 Steel						★	★	★	★	☆	☆	☆	☆	☆	☆	★	★				
不锈钢 Stainless Steel																					
铸铁 Cast Iron						★	★														
有色金属 Nonferrous Metal																				★	
耐热合金 Heat Resistant Alloy										☆	☆	★	★								
淬硬钢 Hardened Steel																				★	

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

车削刀片(负型)
Turning Inserts (Negative)

KN..



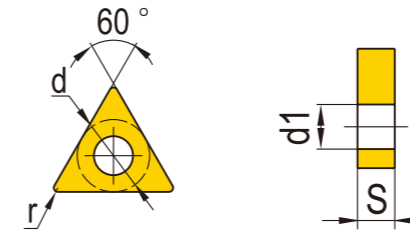
型号 Model	尺寸 Size (mm)				
	l	d	s	d1	r
KN..160405..	19.2	9.525	4.76	2.2	0.5
KN..160410..	18.8	9.525	4.76	2.2	1.0

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																	
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20				
	KNUX160405R-11	0.5	0.20-0.35	1.0-6.0			★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
	KNUX160405L-11	0.5	0.20-0.35	1.0-6.0																		
	KNUX160410R-11	1.0	0.30-0.60	1.5-6.0																		
	KNUX160410L-11	1.0	0.30-0.60	1.5-6.0																		
半精加工 Semi-Finishing																						
钢 Steel																						
不锈钢 Stainless Steel																						
铸铁 Cast Iron							★	★														
有色金属 Nonferrous Metal																					★	★
耐热合金 Heat Resistant Alloy										☆	☆	☆	☆									
淬硬钢 Hardened Steel										★												

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

车削刀片(负型)
Turning Inserts (Negative)

TN..



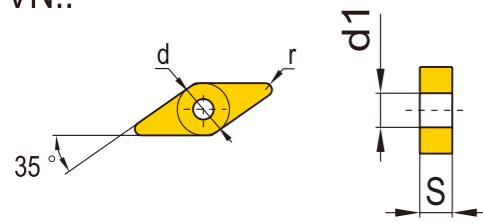
型号 Model	尺寸 Size (mm)		
	d	s	d1
TN..1604..	9.525	4.76	3.81
TN..2204..	12.7	4.76	5.16

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																	
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20				
粗加工 Roughing	TNMA160408	0.8	0.25-0.70	3.0-7.0	●																	
	TNMA160412	1.2	0.25-0.70	3.0-7.0	●																	
半精加工 Semi-Finishing	TNMG160408KM	0.8	0.17-0.50	1.2-3.5	●																	
	TNMG160412KM	1.2	0.20-0.50	1.5-3.5	●																	
粗加工 Roughing	TNMG160408KR	0.8	0.17-0.50	1.2-3.5			●	●														
	TNMG160412KR	1.2	0.20-0.50	1.5-3.5			●	●														
半精加工 Semi-Finishing	TNMG160404PM	0.4	0.05-0.30	0.5-2.0					●	●												
	TNMG160408PM	0.8	0.07-0.30	0.5-2.0					●	●												
半精加工 Semi-Finishing	TNMG160404MM	0.4	0.05-0.30	0.8-5.0							●	●										
	TNMG160408MM	0.8	0.10-0.50	1.0-5.0							●	●										
半精加工 Semi-Finishing	TNMG160404MH	0.4	0.07-0.20	0.34-3.7							●	●										
	TNMG160408MH	0.8	0.14-0.40	0.68-3.7							●	●										
半精加工 Semi-Finishing	TNMG160404SM	0.4	0.05-0.15	0.40-4.1									●	●								
	TNMG160408SM	0.8	0.15-0.44	0.80-4.1									●	●								
半精加工 Semi-Finishing	TNMG160404MT	0.4	0.10-0.50	0.5-5.0																	●	
	TNMG160408MT	0.8	0.12-0.50	0.5-5.0																	●	
半精加工 / 精加工 Semi-Finishing/Finishing	TNMG160402AH	0.2	0.04-0.28	0.5-3.0																		●
	TNMG160404AH	0.4	0.05-0.30	0.8-3.5																		●
	TNMG160408AH	0.8	0.10-0.40	0.8-3.5																		●
半精加工 Semi-Finishing	TNMG160404R-C	0.4	0.12-0.30	1.0-3.5									●	●							●	
	TNMG160404L-C	0.4	0.12-0.30	1.0-3.5									●	●							●	
	TNMG160408R-C	0.8	0.15-0.35	1.3-3.5									●	●							●	
	TNMG160408L-C	0.8	0.15-0.35	1.3-3.5									●	●							●	
精加工 Finishing	TNGG160402R-F	0.2	0.03-0.20	0.1-1.5																	●	
	TNGG160402L-F	0.2	0.03-0.20	0.1-1.5																	●	
	TNGG160404R-F	0.4	0.05-0.25	0.3-2.0																	●	
	TNGG160404L-F	0.4	0.05-0.25	0.3-2.0																	●	
钢 Steel												★	★	★	★	☆	☆	☆	☆	☆	☆	☆
不锈钢 Stainless Steel																				★	★	★
铸铁 Cast Iron												★	★									
有色金属 Nonferrous Metal																					★	★
耐热合金 Heat Resistant Alloy																			☆	☆	★	★
淬硬钢 Hardened Steel																						★

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

车削刀片(负型)
Turning Inserts (Negative)

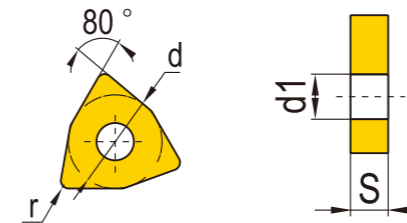
VN..



型号 Model	尺寸 Size (mm)		
	d	s	d1
VN..1604..	9.525	4.76	3.81

车削刀片(负型)
Turning Inserts (Negative)

WN..



型号 Model	尺寸 Size (mm)		
	d	s	d1
WN..0604 ..	9.525	4.76	3.81
WN..0804 ..	12.7	4.76	5.16

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																	
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20				
半精加工 Semi-Finishing	VNMG160404KM	0.4	0.15-0.36	0.8-3.0	●																	
	VNMG160408KM	0.8	0.17-0.36	1.0-2.5	●																	
半精加工 Semi-Finishing	VNMG160404PM	0.4	0.15-0.50	1.2-5.0		●	●															
	VNMG160408PM	0.8	0.15-0.50	1.2-5.0		●	●															
半精加工 Semi-Finishing	VNMG160404MM	0.4	0.05-0.30	0.5-2.0						●	●											
	VNMG160408MM	0.8	0.07-0.30	0.5-2.0						●	●											
半精加工 Semi-Finishing	VNMG160404MH	0.4	0.07-0.20	0.34-3.3						●	●											
	VNMG160408MH	0.8	0.14-0.40	0.68-3.3						●	●											
半精加工 Semi-Finishing	VNMG160404SM	0.4	0.08-0.22	0.40-3.3								●	●									
	VNMG160408SM	0.8	0.15-0.44	0.80-3.3								●	●									
半精加工 Semi-Finishing	VNMG160404MT	0.4	0.15-0.36	0.8-3.0																●		
	VNMG160408MT	0.8	0.17-0.36	1.0-2.5																●		
钢 Steel						★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
不锈钢 Stainless Steel																						
铸铁 Cast Iron						★	★															
有色金属 Nonferrous Metal																						
耐热合金 Heat Resistant Alloy										☆	☆	★	★									
淬硬钢 Hardened Steel																						★

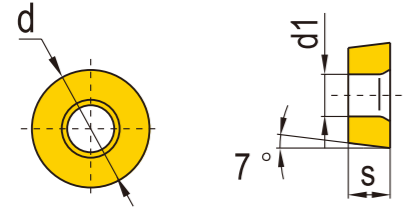
★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																	
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20				
粗加工 Roughing	WNMA080408	0.8	0.25-0.70	3.0-7.0	●																	
	WNMA080412	1.2	0.25-0.70	3.0-7.0	●																	
半精加工 Semi-Finishing	WNMG080408KM	0.8	0.17-0.55	1.2-4.0	●																	
	WMMG080412KM	1.2	0.25-0.55	1.5-4.0	●																	
粗加工 Roughing	WNMG080408KR	0.8	0.20-0.60	1.20-5.8		●			●													
	WMMG080412KR	1.2	0.30-0.90	1.20-5.8		●			●													
半精加工 Semi-Finishing	WNMG080404PM	0.4	0.12-0.52	0.7-4.8			●	●														
	WNMG080408PM	0.8	0.12-0.52	0.7-4.8			●	●														
半精加工 Semi-Finishing	WNMG080404MM	0.4	0.10-0.50	0.5-5.0								●	●									
	WNMG080408MM	0.8	0.12-0.50	0.5-5.0								●	●									
半精加工 Semi-Finishing	WNMG080404MH	0.4	0.07-0.20	0.34-2.6								●	●									
	WNMG080408MH	0.8	0.14-0.40	0.68-2.6								●	●									
半精加工 Semi-Finishing	WNMG080404SM	0.4	0.08-0.22	0.40-2.9										●	●							
	WNMG080408SM	0.8	0.15-0.44	0.80-2.9										●	●							
半精加工 Semi-Finishing	WNMG080404MT	0.4	0.12-0.40	1.0-4.0																	●	
	WNMG080408MT	0.8	0.17-0.55	1.2-4.0																	●	
半精加工 / 精加工 Semi-fishing/Finishing	WNMG080402AH	0.2	0.04-0.28	0.5-3.0																		●
	WNMG080404AH	0.4	0.05-0.30	0.8-3.5																		●
	WNMG080408AH	0.8	0.10-0.40	0.8-3.5																		●
钢 Steel						★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
不锈钢 Stainless Steel																						
铸铁 Cast Iron						★	★															
有色金属 Nonferrous Metal																						
耐热合金 Heat Resistant Alloy										☆	☆	★	★									
淬硬钢 Hardened Steel																						★

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

车削刀片(正型)
Turning Inserts (Positive)

RC..



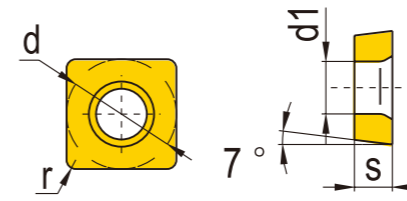
型号 Model	尺寸 Size (mm)		
	d	s	d1
RC..0602MO	6	2.38	2.8
RC..0803MO	8	3.18	3.4
RC..1003MO	10	3.18	3.6
RC..1204MO.	12	4.76	4.2

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application														
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20	
	RCMT0602MO	6.0	0.06-0.15	0.2-2.0			●												
	RCMT0803MO	8.0	0.08-0.21	0.3-2.5			●												
	RCMT1003MO	10.0	0.25-0.50	1.5-4.0			●												
	RCMT1204MO	12.0	0.30-0.60	2.5-5.0			●												
	RCGT0602MO-APK	6.0	0.05-0.20	0.5-2.0														●	
	RCGT0803MO-APK	8.0	0.05-0.25	0.5-2.5														●	
	RCGT1003MO-APK	10.0	0.10-0.30	1.0-3.0														●	
	RCGT10T3MO-APK	10.0	0.10-0.30	1.0-3.0														●	
	RCGT1204MO-APK	12.0	0.10-0.35	1.0-3.5														●	
钢 Steel					★	★	★	★	☆	☆	☆						★	★	
不锈钢 Stainless Steel										★	★	☆	☆						
铸铁 Cast Iron					★	★													
有色金属 Nonferrous Metal																		★	★
耐热合金 Heat Resistant Alloy										☆	☆	★	★						
淬硬钢 Hardened Steel																			★

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

车削刀片(正型)
Turning Inserts (Positive)

SC..



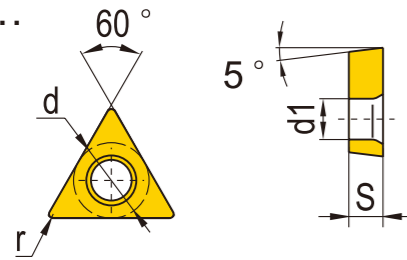
型号 Model	尺寸 Size (mm)		
	d	s	d1
SC..09T304..	9.525	3.97	4.4
SC..120404..	12.7	4.76	5.5

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application														
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20	
半精加工 Semi-Finishing	SCMT09T304GPK	0.4	0.08-0.25	0.3-3.0	●														
	SCMT09T308GPK	0.8	0.10-0.30	0.5-3.0	●														
	SCMT120408GPK	0.8	0.12-0.35	0.6-4.0	●														
	SCMT120412GPK	1.2	0.15-0.40	0.9-4.0	●														
半精加工 Semi-Finishing	SCMT09T304TMP	0.4	0.08-0.23	0.3-3.0			●	●			●								
	SCMT09T308TMP	0.8	0.10-0.30	0.5-3.0			●	●			●								
	SCMT120408TMP	0.8	0.09-0.27	0.3-3.6			●	●			●								
	SCMT120412TMP	1.2	0.12-0.36	0.6-3.6			●	●			●								
	SCGT09T302APK	0.2	0.02-0.30	0.1-4.0															●
	SCGT09T304APK	0.4	0.04-0.40	0.1-5.0															●
	SCGT09T308APK	0.8	0.03-0.40	0.1-5.0															●
	SCGT120404APK	0.4	0.03-0.50	0.1-5.0															●
SCGT120408APK	0.8	0.04-0.60	0.15-5.5															●	
钢 Steel					★	★	★	★	☆	☆	☆						★	★	
不锈钢 Stainless Steel										★	★	☆	☆						
铸铁 Cast Iron					★	★													
有色金属 Nonferrous Metal																		★	★
耐热合金 Heat Resistant Alloy										☆	☆	★	★						
淬硬钢 Hardened Steel																			★

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

车削刀片(正型)
Turning Inserts (Positive)

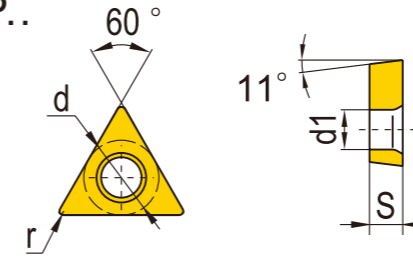
TB..



型号 Model	尺寸 Size (mm)		
	d	s	d1
TB..0601..	3.97	1.59	2.3

车削刀片(正型)
Turning Inserts (Positive)

TP..



型号 Model	尺寸 Size (mm)		
	d	s	d1
TP..0802..	4.76	2.38	2.3
TP..0902..	5.56	2.38	3.0
TP..1102..	6.35	2.38	3.5
TP..1103..	6.35	3.18	3.3
TP..16T3..	9.525	3.18	4.5

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																		
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20					
	TBGT060101R-F	0.1	0.03-0.15	0.06-1.0																			
	TBGT060101L-F	0.1	0.03-0.15	0.06-1.0																			
	TBGT060102R-F	0.2	0.05-0.20	0.1-1.3																			
	TBGT060102L-F	0.2	0.05-0.20	0.1-1.3																			
	TBGT060104R-F	0.4	0.08-0.20	0.1-1.3																			
	TBGT060104L-F	0.4	0.05-0.20	0.1-1.3																			
钢 Steel					★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
不锈钢 Stainless Steel																							
铸铁 Cast Iron					★	★																	
有色金属 Nonferrous Metal																							
耐热合金 Heat Resistant Alloy																							
淬硬钢 Hardened Steel										★													

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																		
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20					
精加工 Finishing	TPGH080201R-F	0.1	0.02-0.08	0.05-1.0																			
	TPGH080201L-F	0.1	0.02-0.08	0.05-1.0																			
	TPGH080202R-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH080202L-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH080204R-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH080204L-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH090201R-F	0.1	0.02-0.08	0.05-1.0																			
	TPGH090201L-F	0.1	0.02-0.08	0.05-1.0																			
	TPGH090202R-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH090202L-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH090204R-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH090204L-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH110202R-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH110202L-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH110204R-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH110204L-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH110302R-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH110302L-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH110304R-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH110304L-F	0.4	0.04-0.12	0.08-1.5																			
	TPGH110308R-F	0.8	0.05-0.15	1.0-1.7																			
	TPGH110308L-F	0.8	0.05-0.15	1.0-1.7																			
	TPGH16T302R-F	0.2	0.03-0.10	0.06-1.2																			
	TPGH16T302L-F	0.2	0.03-0.10	0.06-1.2																			
TPGH16T304R-F	0.4	0.04-0.12	0.08-1.7																				
TPGH16T304L-F	0.4	0.04-0.12	0.08-1.7																				
TPGH16T308R-F	0.8	0.05-0.20	1.0-2.0																				
TPGH16T308L-F	0.8	0.05-0.20	1.0-2.0																				
钢 Steel					★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
不锈钢 Stainless Steel																							
铸铁 Cast Iron					★	★																	
有色金属 Nonferrous Metal																							
耐热合金 Heat Resistant Alloy																							
淬硬钢 Hardened Steel										★													

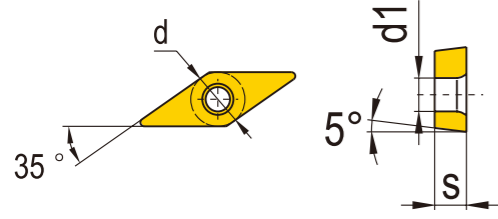
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

车削刀片(正型)
Turning Inserts (Positive)

VB..



型号 Model	尺寸 Size (mm)		
	d	s	d1
VB..1103..	6.35	3.18	2.8
VB..1604..	9.525	4.76	4.4

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																	
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20				
半精加工 Semi-Finishing	VBMT110304SM	0.4	0.05-0.16	0.35-2.1										●	●							
	VBMT110308SM	0.8	0.10-0.32	0.70-2.1										●	●							
	VBMT160404SM	0.4	0.05-0.16	0.35-3.1										●	●							
	VBMT160408SM	0.8	0.10-0.32	0.70-3.1										●	●							
半精加工 Semi-Finishing	VBMT160412SM	1.2	0.16-0.48	1.05-3.1										●	●							
	VBGT110301SA	0.1	0.02-0.15	0.10-1.4										●	●							
	VBGT110302SA	0.2	0.02-0.15	0.20-1.4										●	●							
	VBGT110304SA	0.4	0.03-0.20	0.20-1.4										●	●							
	VBGT160401SA	0.1	0.02-0.15	0.10-1.4										●	●							
	VBGT160402SA	0.2	0.02-0.15	0.20-1.4										●	●							
														●	●							
钢 Steel					★	★	★	★	☆	☆	☆			★	★							
不锈钢 Stainless Steel																						
铸铁 Cast Iron					★	★								★	★		☆	☆				
有色金属 Nonferrous Metal																				★	★	
耐热合金 Heat Resistant Alloy																			☆	☆	★	★
淬硬钢 Hardened Steel																						★

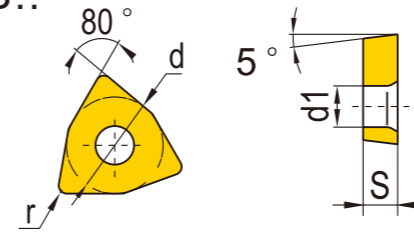
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

车削刀片(正型)
Turning Inserts (Positive)

WB..



型号 Model	尺寸 Size (mm)		
	d	s	d1
WB..0601..	3.97	1.59	2.3

刀片外形 Insert shape	型号 Model	r	进给fn mm/rev	切深ap mm	刀片材质及适用加工材料 Insert grades and application																	
					KC3110	KC3125	KC1115	KC1125	KC1135	KP1110	KP2120	KP2130	KP6105	KP6110	KT20	KCT20	KW20	KCW20				
精加工 Finishing	WBGT060101R-F	0.1	0.01-0.05	0.1-0.3																		
	WBGT060101L-F	0.1	0.01-0.05	0.1-0.3																		
	WBGT060102R-F	0.2	0.01-0.08	0.1-0.4																		
	WBGT060102L-F	0.2	0.01-0.08	0.1-0.4																		
	WBGT060104R-F	0.4	0.01-0.10	0.1-0.5																		
	WBGT060104L-F	0.4	0.01-0.10	0.1-0.5																		
钢 Steel													★	★	★	★	☆	☆	☆	☆	★	★
不锈钢 Stainless Steel																						
铸铁 Cast Iron																						
有色金属 Nonferrous Metal																						
耐热合金 Heat Resistant Alloy																						
淬硬钢 Hardened Steel																						

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

车削刀片
Turning Insert

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials			布氏硬度 HB	切削速度推荐值Vc(m/min) Recommended Cutting Speed																					
				KC1115			KC1125			KC1135			KC3110			KC3125			KT20			KW20			
				f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)				
P	碳素钢 Carbon Steel	约0.15%C退火 About 0.15%C, Annealed	125	500	440	390	430	380	300	370	250	200							200	160	120				
		约0.45%C退火 About 0.45%C, Annealed	190	430	380	320	360	310	250	310	220	180							185	145	110				
		约0.45%C调质 About 0.45%C, Quenched	250	300	270	240	270	230	190	220	180	140							150	120	90				
		约0.75%C退火 About 0.75%C, Annealed	270	320	300	270	320	280	220	260	200	160							160	135	105				
		约0.75%C调质 About 0.75%C, Quenched	300	260	240	220	230	200	170	200	120	90							140	110	85				
		低合金钢 Low Alloy Steel	退火 Annealed	180	370	320	280	330	280	220	260	180	160							140	100	85			
	调质 Quenched and Tempered		275	290	240	200	260	220	180	190	140	100							120	90	75				
	调质 Quenched and Tempered		300	260	220	180	230	200	150	160	120	90							100	90	70				
	调质 Quenched and Tempered		350	240	200	160	200	160	120	140	90	80							95	75	55				
	高合金钢 High Alloy Steel	退火 Annealed	200	360	300	260	320	270	220	260	180	100							75	70	55				
	工具钢 Tool Steel	淬火并回火 Quenched and Tempered	325	200	160	120	180	140	100	90	70	50							60	60	50				
	M	不锈钢 Stainless Steel	铁素体/马氏体 Ferrite/Martensite	200												120	100	90							
马氏体 Martensite			280												100	95	85								
奥氏体 Austenite			180												90	80	70								
K	灰口铸铁 Gray Cast iron	球光体/铁素体 Pearlite/Ferrite	180												360	270	190	130	100						
		球光体/马氏体 Pearlite/Martensite	260												240	170	130	80	80						
	球墨铸铁 Nodular Cast iron	铁素体 Ferrite	160												270	210	160	115	110						
		球光体 Pearlite	250												210	170	130	100	90						
	可锻铸铁 Malleable Cast iron	铁素体 Ferrite	130												330	300	180	130	135						
		球光体 Pearlite	230												210	140	140	105	100						
N	铝合金 Aluminium Alloys	非时效淬硬 Non-aging Hardened	60															2900	2200	1600					
		时效淬硬 Aging Hardened	100															900	720	360					
	铜和铜合金 Copper Alloy	易切削合金 Free Cutting Alloys	110															720	480	320					
		黄铜 Brass	90															480	360	300					
		青铜和电解铜 Bronze & Electrolytic Copper	100															340	240	160					
S	耐热合金 Heat Resistant Alloy	铁基合金 Iron base alloy	280																						
		钴基合金 Cobalt base alloy	320																						
		镍基合金 Nickel base alloy	350																						
		钛合金 Titanium alloy	370																						

车削刀片
Turning Insert

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials			布氏硬度 HB	切削速度推荐值Vc(m/min) Recommended Cutting Speed																				
				KP1110			KP2120			KP2130			KP6105			KP6110			KCT20			KCW20		
				f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)	f(mm)			
P	碳素钢 Carbon Steel	约0.15%C退火 About 0.15%C, Annealed	125																					
		约0.45%C退火 About 0.45%C, Annealed	190																					
		约0.45%C调质 About 0.45%C, Quenched	250																					
		约0.75%C退火 About 0.75%C, Annealed	270																					
		约0.75%C调质 About 0.75%C, Quenched	300																					
		低合金钢 Low Alloy Steel	退火 Annealed	180																				
	调质 Quenched and Tempered		275																					
	调质 Quenched and Tempered		300																					
	调质 Quenched and Tempered		350																					
	高合金钢 High Alloy Steel	退火 Annealed	200																					
	工具钢 Tool Steel	淬火并回火 Quenched and Tempered	325																					
	M	不锈钢 Stainless Steel	铁素体/马氏体 Ferrite/Martensite	200				250	230	180	150	120	110	215	170	145	180	140	110					
马氏体 Martensite			280				220	180	155	110	95	100	240	190	155	200	16	130						
奥氏体 Austenite			180				180	150	120	100	90	80	215	150	85	160	130	70						
K	灰口铸铁 Gray Cast iron	球光体/铁素体 Pearlite/Ferrite	180																					
		球光体/马氏体 Pearlite/Martensite	260																					
	球墨铸铁 Nodular Cast iron	铁素体 Ferrite	160																					
		球光体 Pearlite	250																					
	可锻铸铁 Malleable Cast iron	铁素体 Ferrite	130																					
		球光体 Pearlite	230																					
N	铝合金 Aluminium Alloys	非时效淬硬 Non-aging Hardened	60															2900	2200	1600				
		时效淬硬 Aging Hardened	100															900	720	360				
	铜和铜合金 Copper Alloy	易切削合金 Free Cutting Alloys	110															720	480	320				
		黄铜 Brass	90															480	360	300				
		青铜和电解铜 Bronze & Electrolytic Copper	100															340	240	160				
S	耐热合金 Heat Resistant Alloy	铁基合金 Iron base alloy	280																					
		钴基合金 Cobalt base alloy	320																					
		镍基合金 Nickel base alloy	350																					
		钛合金 Titanium alloy	370												200	125	50	160	90	35				



外圆车刀

Cylindrical turning tool

E01~E49

双重压紧式外圆车刀 Double pressure external turning tool	E01
压板压紧式外圆车刀 External round turning tool with pressing plate	E02
外圆车刀一览表 List of external turning tools	E03
95° MCLNR/L 75° MCBNR/L	E05
75° MCKNR/L 93° MDJNR/L	E06
62° 30' MDPNM07° 30' MDQNR/L	E07
75° MSBNR/L 75° MSRRN/L	E08
75° MSKNR/L 45° MSDNN	E09
45° MSSNR/L 90° MTGNR/L	E10
93° MTJNR/L 90° MTFNR/L	E11
105° MTQNR/L 60° MTENN	E12
93° MVJNR/L 72° 30' MVVNN	E13
93° MVUNR/L 117.5° MVQNR/L	E14
95° MWLNR/L MRGNR	E15
MRDNN	E16
75° PCBNR/L 95° PCLNR/L	E17
95° PDJNR/L 63° PDNNR/L	E18
75° PSBNR/L 45° PSDNN	E19
75° PSKNR/L 45° PSSNR/L	E20
PRDCN PRACR/L	E21
PRGCR/L 90° PTGNR/L	E22
90° PTFNR/L 60° PTTNR/L	E23
95° PWLNR/L	E24
95° DCLNR/L 75° DCBNR/L	E25
75° DCKNR/L 50° DCMNN	E26
75° DCKNR/L 50° DCMNN	E27
107.5° DDQNR/L 75° DSBNR/L	E28
45° DSDNN 45° DSSNR/L	E29
75° DSKNR/L 90° DTGNR	E30
90° DTFNR 72.5° DVVNN	E31
93° DVJNR 95° DWLNR	E32
95° CCLNR/L 93° CDJNR/L	E33
75° CSKNR/L CSDNN	E34
75° CSRNR/L CRDNN	E35
93° CTJNR/L 93° CTUNR/L	E36
CKJNR/L	E37
90° SCACR/L 95° SCLCR/L	E38
90° SDACR/L 93° SDJCR/L	E39
60° 30' SDNCN 93° SVJCR/L	E40
93° SVJBR/L 90° SVABR/L	E41
90° SVACR/L 72° 30' SVVBN	E42
72° 30' SVVCN 75° SSSCR/L	E43
45° SSDCN 75° SSKCR/L	E44
45° SSSCR/L 91° STACR/L	E45
91° STFCR/L 91° STGCR/L	E46
60° STTCR/L 90° SWACR/L	E47
0° SRDCN SRGCR/L	E48
SRACR/L	E49

可转位外圆车刀型号编制说明

Toolholder Identification System

M	C	L	N	R	25	25	M	12	
1	2	3	4	5	6	7	8	9	10

1 压紧方式 Pressing mode	2 刀片形状 Blade shape	3 刀具形式 Tool form					6 刀尖高度 Tip height		7 刀体宽度 Knife body width		8 刀具长度 Tool length		9 制造商代码 Manufacturer code
D 双重压紧式 Double clamp type	C 80°	A 90°	B 75°	C 90°	D 45°	E 60°	C a		b		A=32 P=170 B=40 Q=180 C=50 R=200 D=60 S=250 E=70 T=300 F=80 U=350 G=90 V=400 H=100 W=450 J=110 Y=500 K=125 X=特殊 L=140 M=150 N=160		F: 直头, 无偏置 F: Straight head, unbiased S: 单面定位设计 S: Single-sided positioning design D: 刀垫式正前角车刀 D: Pad type front corner turning tool
C 上压紧式 Clamp type	D 55°	F 90°	G 90°	H 107°30'	J 93°	K 75°							
M 复合压紧式 Multi lock type	K 55°	L 90°	M 50°	N 62°30'	P 117°30'	R 75°	c		d				
P 杠杆压紧式 Lever lock type	L 90°	S 45°	T 60°	U 93°	V 72°30'	W 60°							
S 螺钉压紧式 Screw on type	R 90°	Y 85°	Z 100°	X 非标准主偏角 Nonstandard main deflection Angle									
	S 90°	4 刀片法后角 blade normal rear Angle		5 刀具切削方向 Cutting direction of the tool		9 刀片尺寸 Blade dimensions							
	T 60°	B 5°	R	C 80°	D 55°	K 55°							
	V 35°	C 7°	N	L 90°	R	S							
	W 80°	D 15°	L	T 60°	V 35°	W 80°							
		E 20°											
		F 25°											
		N 0°											
		P 11°											

双重压紧式外圆车刀

Double pressure external turning tool

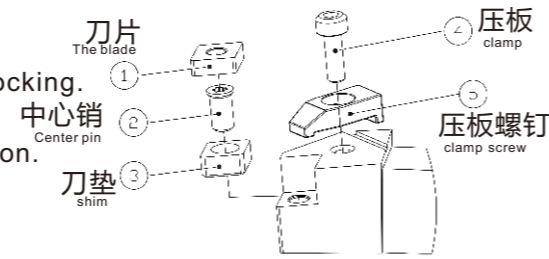
- 通过稳定锁紧，提高刀片的耐崩损性能。
- Improve the collapse resistance of the blade through stable locking.
- 通过高精度安装，提高加工精度。
- Improve machining accuracy through high precision installation.

可从车刀下方更换刀片。

The blade can be replaced from under the turning tool.

最适用于高效，断续，高硬度材料加工。

Most suitable for high efficiency, intermittent, high hardness materials processing.



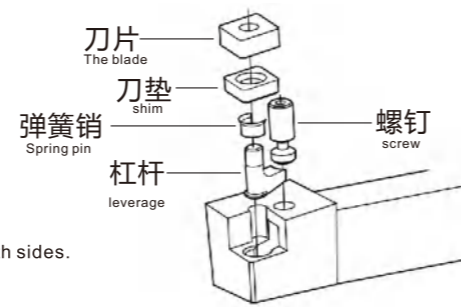
双重压紧式外圆车刀-刀片安装示意

Double pressure external round turning tool
- blade installation schematic

杠杆压紧式外圆车刀

Lever press external turning tool

- 利用杠杆原理，采用螺丝钉压紧杠杆锁紧刀片。
- Using the lever principle, use screws to press the lever and lock the blade.
- 使用N后角刀片（刀片后角为0°），刀片可双面使用。
- Use the N rear Angle blade (the rear Angle of the blade is 0°). The blade can be used on both sides.
- 坚固的切销刃和牢固的装夹方式为高效率切削提供了可靠的保障。
- Strong cutting pin edge and firm clamping method provide reliable guarantee for high efficiency cutting.
- 可用于重型车销。
- Can be used for heavy duty vehicle pins.



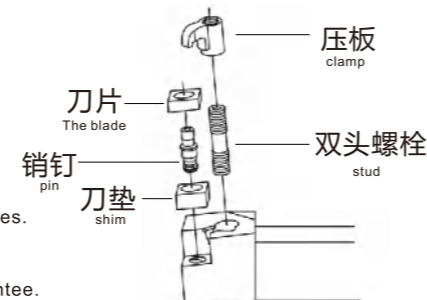
杠杆压紧式外圆车刀-刀片安装示意

The installation of lever pressing external round turning tool and blade is shown

复合压紧式外圆车刀

Compound compacting external turning tool

- 采用销钉侧压与压板上压。
- Use the side pressure of the pin and the pressure plate.
- 使用N后角刀片（刀片后角为0°），刀片可双面使用。
- Use the N rear Angle blade (the rear Angle of the blade is 0°). The blade can be used on both sides.
- 坚固的切削刃和牢固的装夹方式为高效率切削提供了可靠的保障。
- Strong cutting edge and strong clamping mode for efficient cutting pin to provide reliable guarantee.
- 可用于立式车床作内孔车销加工。
- Can be used for vertical lathe for inner hole turning pin processing.



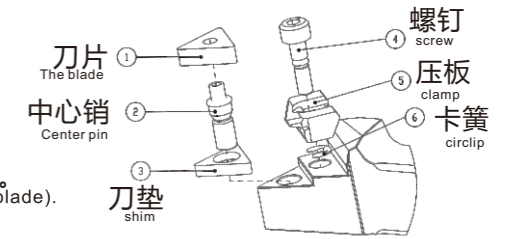
复合压紧式外圆车刀-刀片安装示意

Installation of compound pressing external turning tool and blade

压板压紧式外圆车刀

External round turning tool with pressing plate

- 强力锁紧
- Strong lock
- 负角刀片：半精加工~重切削用（重要用于CBN，陶瓷刀片）。
- Negative Angle blade: semi-finishing to heavy cutting (important for CBN, ceramic blade).
- 正角刀片：低切削阻力。
- Positive Angle blade: Low cutting resistance.



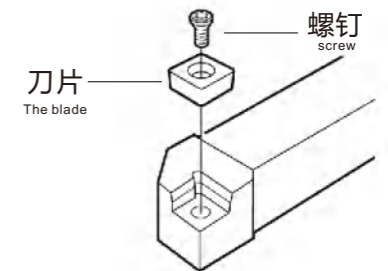
压板压紧式外圆车刀-刀片安装示意

Installation of external round turning tool and blade with pressing plate

螺钉压紧式外圆车刀

External turning tools for screw compaction

- 螺钉压紧式外圆车刀
- External turning tools with screw pressing
- 使用正前角刀片（刀片后角大于0°）。
- Use a forward-angle blade (blade rear Angle greater than 0°).
- 简单可靠的刀片夹紧方式和极少的备件。
- Simple and reliable blade clamping mode and few spare parts.
- 切屑由前刀面通畅流出。
- Chips flow out smoothly from the front cutter face.



螺钉压紧式外圆车刀-刀片安装示意

This section describes how to install screw pressing external turning tool and blade

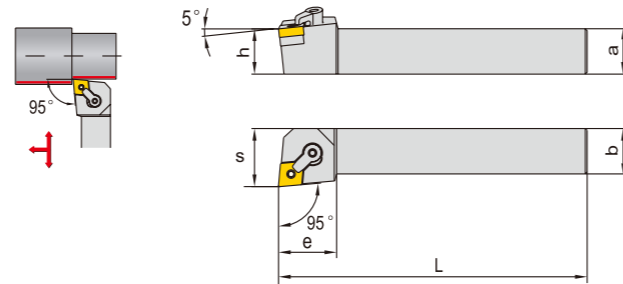
外圆车刀一览表

List of external turning tools

刀片型号 The blade model	C..			W..	R..	D..		
适用刀片形状 Applicable blade shape								
加工形态 Processing form	外圆/端面 Outer circle/end face	外圆 cylindrical	端面 End face	外圆/端面 Outer circle/end face	外圆仿形 Cylindrical shape	外圆仿形 Cylindrical shape		
复合压紧式 Compound compression type	 MCLN	 MCBN	 MCKN	 MWLN	 MRGN	 MDJN	 MDPNN	 MDQN
杠杆压紧式 Lever compression type	 PCLN	 PCBN	 PCKN	 PWLN	 PRGC	 PDJN	 PDPNN	 PDQN
双重压紧式 Double compression type	 DCLN	 DCBN	 DCKN	 DWLN	 DDJN	 DDPNN	 DDQN	
压板压紧式 Pressing plate type	 CCLN			 CRDNN	 CDJN			
螺钉压紧式 Screw clamp type	 SCAC			 SWLC	 SRGC	 SDAC	 SDNCN	
	 SCLC				 SRDCN	 SDJC		

	S..			T..			V..	
适用刀片形状 Applicable blade shape								
加工形态 Processing form	外圆 cylindrical	端面 End face	外圆/倒角 Outer circle/chamfering	外圆 cylindrical	端面 End face	外圆 cylindrical	外圆/仿形 Cylindrical shape	
复合压紧式 Compound compression type	 MSBN	 MSKN	 MSDNN	 MTGN	 MTFN	 MTQN	 MVJN	 MVVNN
杠杆压紧式 Lever compression type	 MSRN	 MSSN	 MTJN	 MTENN	 MVQN	 MVUN		
双重压紧式 Double compression type	 PSBN	 PSKN	 PSDNN	 PTGN	 PTFN	 PTTNN		
压板压紧式 Pressing plate type	 DSBN	 DSKN	 DSDNN	 DTGN	 DTFN	 DVJN	 DVVNN	
螺钉压紧式 Screw clamp type	 SSCB	 SSKC	 SSDCN	 STAC	 STFC	 STTC	 SVAC/B	 SVVCN
			 SSSC	 STGC			 SVJC/B	 SVVBN

95° MCLNR/L



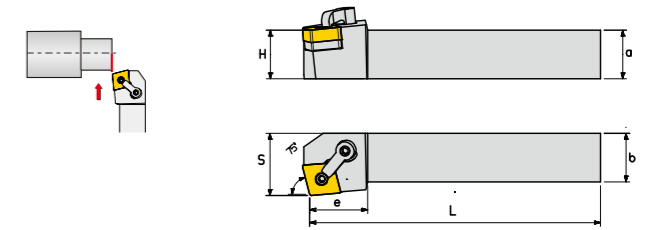
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MCLNR1616H12	MCLNL1616H12	●	○	16	16	100	16	20	32						
MCLNR2020K12	MCLNL2020K12	●	●	20	20	125	20	25	32	CN..1204..	MC1204	MSP617	MCL1814	WS0625	S2.5/S3
MCLNR2525M12	MCLNL2525M12	●	●	25	25	150	25	32	32						
MCLNR3232P12	MCLNL3232P12	●	●	32	32	170	32	40	32						
MCLNR2525M16	MCLNL2525M16	○	○	25	25	150	25	32	38						
MCLNR3232P16	MCLNL3232P16	●	●	32	32	170	32	40	38	CN..1606..	MC1604	MSP821	MCL2114	WS0630	S3
MCLNR4040R16	MCLNL4040R16	○	○	40	40	200	40	50	38						
MCLNR2525M19	MCLNL2525M19	○	○	25	25	150	25	32	38						
MCLNR3232P19	MCLNL3232P19	○	○	32	32	170	32	40	38	CN..1906..	MC1904	MSP1021	MCL2217	WS0830	S4
MCLNR4040R19	MCLNL4040R19	●	●	40	40	200	40	50	38						
MCLNR4040R25	MCLNL4040R25	○	○	40	40	200	40	50	45	CN..2509..	MC2508	MSP1229	MCL3220	WS1035	S4/S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° MCKNR/L



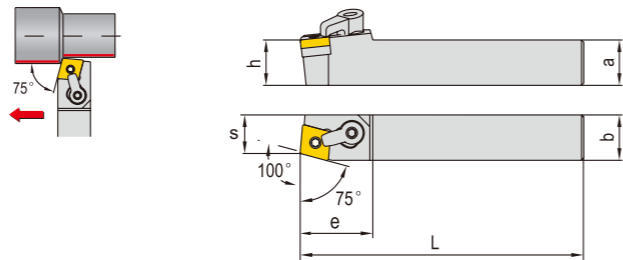
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MCKNR2020K12	MCKNL2020K12	●	○	20	20	125	20	25	28					WS061025	
MCKNR2525M12	MCKNL2525M12	●	●	25	25	150	25	32	28	CN..1204..	MC1204	MSP617	MCL1814	WS061030	S3
MCKNR3225P12	MCKNL3225P12	●	●	32	25	170	32	32	28						
MCKNR2525M16	MCKNL2525M16	●	●	25	25	150	25	32	30						
MCKNR3225P16	MCKNL3225P16	○	○	32	25	170	32	32	30	CN..1606..	MC1604	MSP821	MCL2114	WS061030	S3
MCKNR3232P16	MCKNL3232P16	●	●	32	32	170	32	38	30						
MCKNR3232P19	MCKNL3232P19	○	○	32	32	170	32	40	36	CN..1906..	MC1904	MSP1021	MCL2217	WS081030	S4
MCKNR4040R19	MCKNL4040R19	○	○	40	40	200	40	48	36						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° MCBNR/L

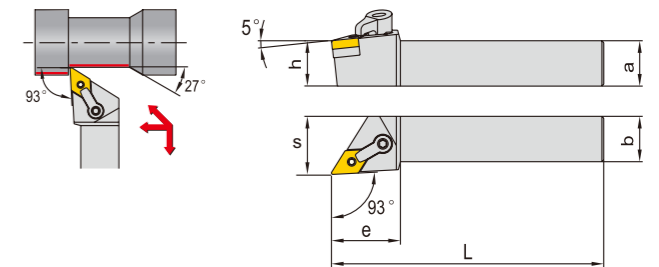


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MCBNR2020K12	MCBNL2020K12	○	○	20	20	125	20	17	32						
MCBNR2525M12	MCBNL2525M12	●	○	25	25	150	25	22	32	CN..1204..	MC1204	MSP617	MCL1814	WS0625	S2.5/S3
MCBNR3232P12	MCBNL3232P12	○	○	32	32	170	32	27	32						
MCBNR2525M16	MCBNL2525M16	○	○	25	25	150	25	22	40						
MCBNR3232P16	MCBNL3232P16	○	○	32	32	170	32	27	40	CN..1606..	MC1604	MSP821	MCL2114	WS0630	S3
MCBNR4040R19	MCBNL4040R19	○	○	40	40	200	40	35	40	CN..1906..	MC1904	MSP1021	MCL2217	WS0830	S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MDJNR/L



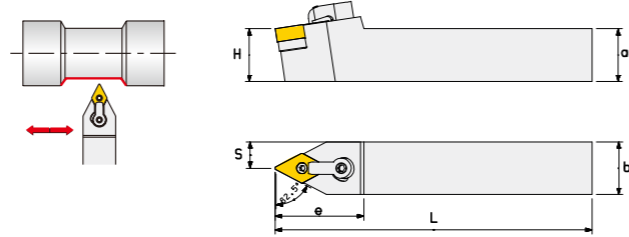
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MDJNR1616H11	MDJNL1616H11	○	○	16	16	100	16	20	30					WS061025	
MDJNR2020K11	MDJNL2020K11	○	○	20	20	125	20	25	32	DN..1104..	MD1103	MSP513	MCK1814	WS061030	S2
MDJNR2525M11	MDJNL2525M11	○	○	25	25	150	25	32	32						
MDJNR3225P11	MDJNL3225P11	○	○	32	25	170	32	32	32					WS061025	S3
MDJNR2020K1504/06	MDJNL2020K1504/06	○	○	20	20	125	20	25	36						
MDJNR2525M1504/06	MDJNL2525M1504/06	○	○	25	25	150	25	32	38	DN..1504..					
MDJNR3225P1504/06	MDJNL3225P1504/06	○	○	32	25	170	32	32	38	DN..1506..	MD1504	04:MSP617 06:MSP619	MCL2114	WS061030	S3
MDJNR3232P1504/06	MDJNL3232P1504/06	○	○	32	32	170	32	40	38						
MDJNR4040R15	MDJNL4040R15	○	○	40	40	200	40	48	40	DN..1506..					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

62° 30' MDPNN



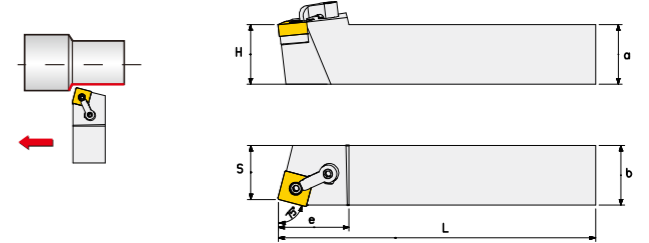
右手刀图例
Legend of right hand knife

型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
		a	b	L	h	s	e						
MDPNN1616H11	○	16	16	100	16	8	35					WS0625	S2
MDPNN2020K11	○	20	20	125	20	10	34	DN..1104..	MD1103	MSP513	MCL1814	WS0630	S3
MDPNN2525M11	○	25	25	150	25	12.5	36					WS0625	
MDPNN3225P11	○	32	25	170	32	12.5	35					WS0625	
MDPNN2020K1504/06	○	20	20	125	20	10	42	DN..1504..		04:MSP617		WS0625	
MDPNN2525M1504/06	○	25	25	150	25	12.5	42	DN..1506..	MD1504	06:MSP619	MCL2114	WS0630	S3
MDPNN3225P1504/06	○	32	25	170	32	12.5	42					WS0630	
MDPNN3232P1504/06	○	32	32	170	32	16	42					WS0630	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° MSBNR/L



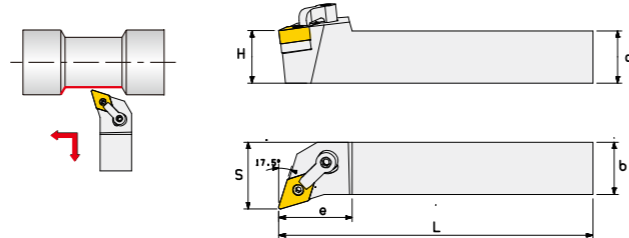
右手刀图例
Legend of right hand knife

型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
		a	b	L	h	s	e						
MSBNR2020K12	○	20	20	125	20	17	34					WS061025	
MSBNR2525M12	○	25	25	150	25	22	32	SN..1204..	MS1204	MSP617	MCL1814	WS061030	S3
MSBNR3225P12	○	32	25	170	32	22	32					WS061030	
MSBNR2525M15	○	25	25	150	25	22	38	SN..1506..	MS1504	MSP821	MCL2114	WS061030	S3
MSBNR3232P15	○	32	32	170	32	29	38					WS061030	
MSBNR3232P19	○	32	32	170	32	27	45	SN..1906..	MS1904	MSP1021	MCL2217	WS081030	S4
MSBNR4040R19	○	40	40	200	40	35	45					WS081030	
MSBNR4040S25	○	40	40	250	40	34	60	SN..2509..	MS2508	MSP1229	MCL3220	WS101035	S4/S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

107° 30' MDQNR/L

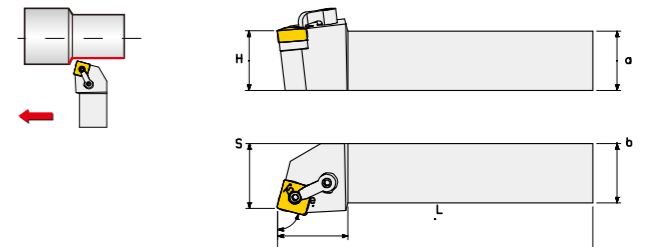


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
		a	b	L	h	s	e						
MDQNR1616H11	○	16	16	100	16	21	30					WS061025	S2
MDQNR2020K11	○	20	20	125	20	25	32	DN..1104..	MD1103	MSP513	MCK1814	WS061030	S3
MDQNR2525M11	○	25	25	150	25	30	30					WS061030	
MDQNR3225P11	○	32	25	170	32	30	30					WS061025	
MDQNR2020K1504/06	○	20	20	125	20	27	36	DN..1504..		04:MSP617		WS061025	
MDQNR2525M1504/06	○	25	25	150	25	32	35	DN..1506..	MD1504	06:MSP619	MCL2114	WS061030	S3
MDQNR3225P1504/06	○	32	25	170	32	32	35					WS061030	
MDQNR3232P1504/06	○	32	32	170	32	40	35					WS061030	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° MSRNR/L

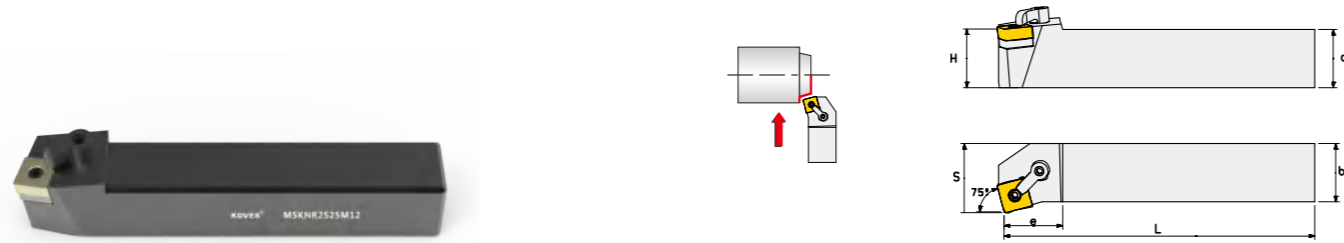


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
		a	b	L	h	s	e						
MSRNR2020K12	○	20	20	125	20	22	32					WS061025	
MSRNR2525M12	○	25	25	150	25	27	32	SN..1204..	MS1204	MSP617	MCL1814	WS061030	S3
MSRNR3225P12	○	32	25	170	32	27	32					WS061030	
MSRNR2525M15	○	25	25	150	25	27	38	SN..1506..	MS1504	MSP821	MCL2114	WS061030	S3
MSRNR3232P15	○	32	32	170	32	35	38					WS061030	
MSRNR3232P19	○	32	32	170	32	35	43	SN..1906..	MS1904	MSP1021	MCL2217	WS081030	S4
MSRNR4040R19	○	40	40	200	40	43	43					WS081030	
MSRNR4040S25	○	40	40	250	40	43	55	SN..2509..	MS2508	MSP1229	MCL3220	WS101035	S4/S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° MSKNR/L



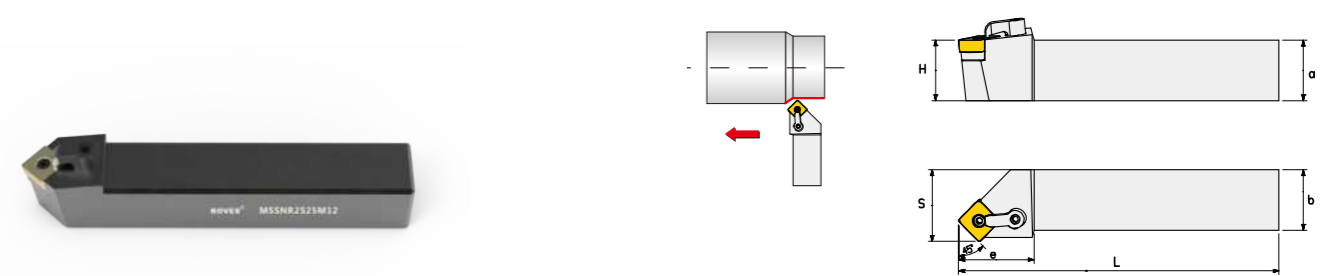
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MSKNR2020K12	MSKNL2020K12	○	○	20	20	125	20	25	28					WS061025	
MSKNR2525M12	MSKNL2525M12	○	○	25	25	150	25	32	27	SN..1204..	MS1204	MSP617	MCL1814	WS061030	S3
MSKNR3225P12	MSKNL3225P12	○	○	32	25	170	32	32	27						
MSKNR2525M15	MSKNL2525M15	○	○	25	25	150	25	32	32	SN..1506..	MS1504	MSP821	MCL2114	WS061030	S3
MSKNR3232P15	MSKNL3232P15	○	○	32	32	170	32	38	32						
MSKNR3232P19	MSKNL3232P19	○	○	32	32	170	32	38	36	SN..1906..	MS1904	MSP1021	MCL2217	WS081030	S4
MSKNR4040R19	MSKNL4040R19	○	○	40	40	200	40	50	40						
MSKNR4040S25	MSKNL4040S25	○	○	40	40	250	40	50	45	SN..2509..	MS2508	MSP1229	MCL3220	WS101035	S4/S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° MSSNR/L



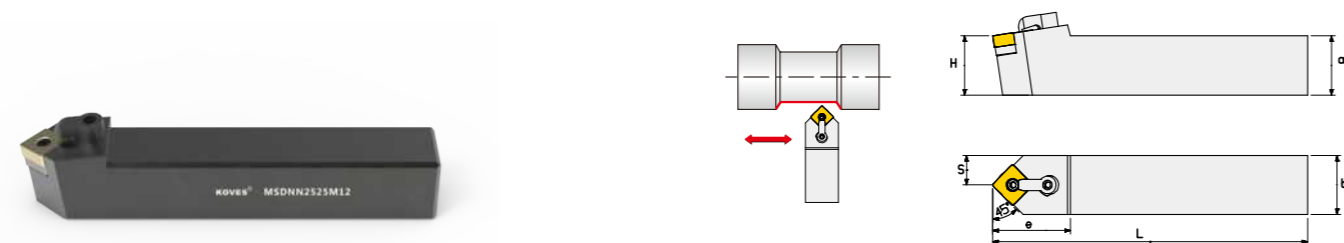
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MSSNR2020K12	MSSNL2020K12	○	○	20	20	125	20	25	36					WS061025	
MSSNR2525M12	MSSNL2525M12	○	○	25	25	150	25	30	36	SN..1204..	MS1204	MSP617	MCL1814	WS061030	S3
MSSNR3225P12	MSSNL3225P12	○	○	32	25	170	32	30	33						
MSSNR3232P12	MSSNL3232P12	○	○	32	32	170	32	38	35						
MSSNR2525M15	MSSNL2525M15	○	○	25	25	150	25	30	40	SN..1506..	MS1504	MSP821	MCL2114	WS061030	S3
MSSNR3232P15	MSSNL3232P15	○	○	32	32	170	32	38	40						
MSSNR3232P19	MSSNL3232P19	○	○	32	32	170	32	38	45	SN..1906..	MS1904	MSP1021	MCL2217	WS081030	S4
MSSNR4040R19	MSSNL4040R19	○	○	40	40	200	40	46	45						
MSSNR4040S25	MSSNL4040S25	○	○	40	40	250	40	50	60	SN..2509..	MS2508	MSP1229	MCL3220	WS101035	S4/S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° MSDNN

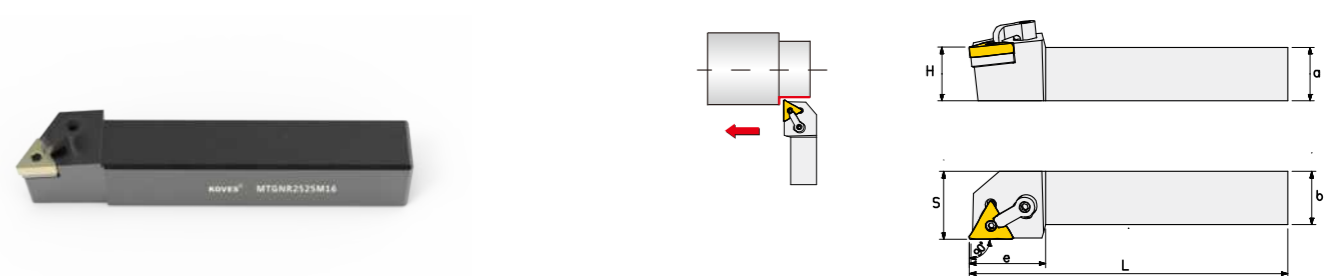


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
		a	b	L	h	s	e						
MSDNN2020K12	○	20	20	125	20	10	34					WS061025	
MSDNN2525M12	○	25	25	150	25	12.5	34	SN..1204..	MS1204	MSP617	MCL1814	WS061030	S3
MSDNN3225P12	○	32	25	170	32	12.5	34						
MSDNN2525M15	○	25	25	150	25	12.5	42	SN..1506..	MS1504	MSP821	MCL2114	WS031030	S3
MSDNN3232P15	○	32	32	170	32	16	42						
MSDNN3232P19	○	32	32	170	32	16	45	SN..1906..	MS1904	MSP1021	MCL2217	WS081030	S4
MSDNN4040R19	○	40	40	200	40	20	50						
MSDNN4040S25	○	40	40	250	40	20	60	SN..2509..	MS2508	MSP1229	MCL3220	WS101035	S4/S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° MTGNR/L

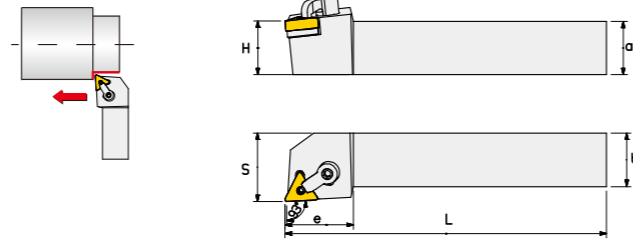


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MTGNR2020K16	MTGNL2020K16	○	○	20	20	125	20	25	32					WS061025	
MTGNR2525M16	MTGNL2525M16	●	○	25	25	150	25	32	30	TN..1604..	MT1603	MSP513	MCL1814	WS061030	S2/S3
MTGNR3225P16	MTGNL3225P16	●	○	32	25	170	32	32	30						
MTGNR2525M22	MTGNL2525M22	○	○	25	25	150	25	32	36						
MTGNR3225P22	MTGNL3225P22	○	○	32	25	170	32	32	36	TN..2204..	MT2204	MSP617	MCL2114	WS061030	S3
MTGNR3232P22	MTGNL3232P22	○	○	32	32	170	32	38	36						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MTJNR/L



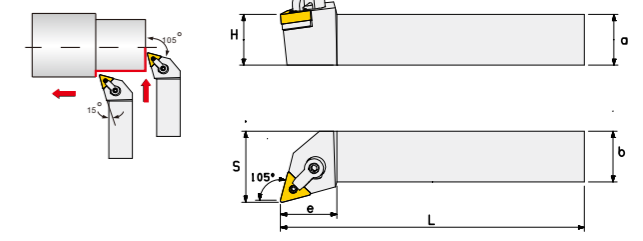
右手刀规格
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MTJNR1616H16	MTJNL1616H16	○	○	16	16	100	16	20	28					WS061025	
MTJNR2020K16	MTJNL2020K16	○	○	20	20	125	20	25	32						
MTJNR2525M16	MTJNL2525M16	○	○	25	25	150	25	32	32	TN..1604..	MT1603	MSP513	MCL1814	WS061030	S2/S3
MTJNR3225P16	MTJNL3225P16	○	○	32	25	170	32	32	32						
MTJNR3232P16	MTJNL3232P16	○	○	32	32	170	32	32	32						
MTJNR2525M22	MTJNL2525M22	○	○	25	25	150	25	32	36						
MTJNR3225P22	MTJNL3225P22	○	○	32	25	170	32	32	36	TN..2204..	MT2204	MSP617	MCL2114	WS061030	S3
MTJNR3232P22	MTJNL3232P22	○	○	32	32	170	32	38	36						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

105° MTQNR/L



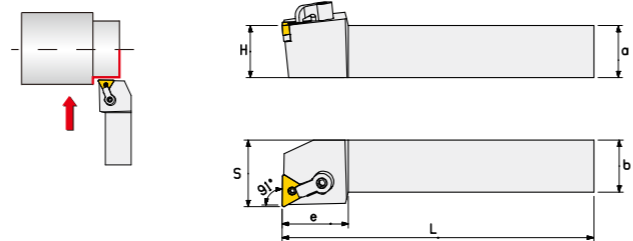
右手刀规格
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MTQNR2020K16	MTQNL2020K16	○	○	20	20	125	20	29	25					WS061025	
MTQNR2525M16	MTQNL2525M16	○	○	25	25	150	25	35	28	TN..1604..	MT1603	MSP513	MCL1814	WS061030	S2/S3
MTQNR3225P16	MTQNL3225P16	○	○	32	25	170	32	35	25						
MTQNR2525M22	MTQNL2525M22	○	○	25	25	150	25	38	36						
MTQNR3232P22	MTQNL3232P22	○	○	32	32	170	32	46	36	TN..2204..	MT2204	MSP617	MCL2114	WS061030	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° MTFNR/L

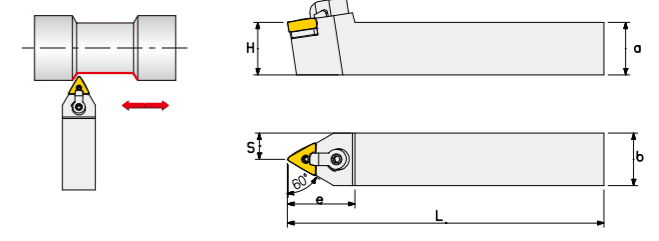


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MTFNR1616H16	MTFNL1616H16	○	○	16	16	100	16	21	28					WS061025	
MTFNR2020K16	MTFNL2020K16	●	●	20	20	125	20	25	30						
MTFNR2525M16	MTFNL2525M16	●	●	25	25	150	25	32	32	TN..1604..	MV1603	MSP513	MCL1814	WS061030	S2/S3
MTFNR3225P16	MTFNL3225P16	●	●	32	25	170	25	32	32						
MTFNR3232P16	MTFNL3232P16	●	●	32	32	170	32	38	32						
MTFNR2525M22	MTFNL2525M22	●	●	25	25	150	25	32	36						
MTFNR3225P22	MTFNL3225P22	●	●	32	25	170	25	32	36	TN..2204..	MV2204	MSP617	MCL2114	WS061030	S3
MTFNR3232P22	MTFNL3232P22	●	●	32	32	170	32	38	36						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

60° MTENN

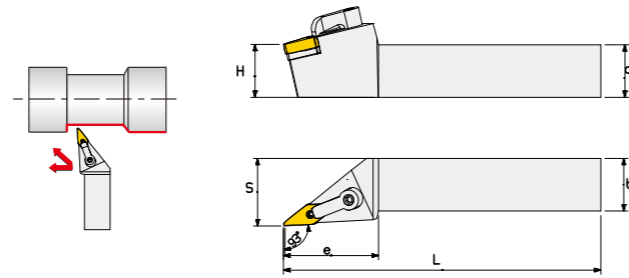


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
		a	b	L	h	s	e						
MTENN1616H16	○	16	16	100	16	8	32						
MTENN2020K16	○	20	20	125	20	10	34						
MTENN2525M16	○	25	36	150	25	12.5	32	TN..1604..	MT1603	MSP513	MCL1814	WS061025	S2
MTENN3232P16	○	32	32	170	32	16	32					WS061030	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MVJNR/L



右手刀图例

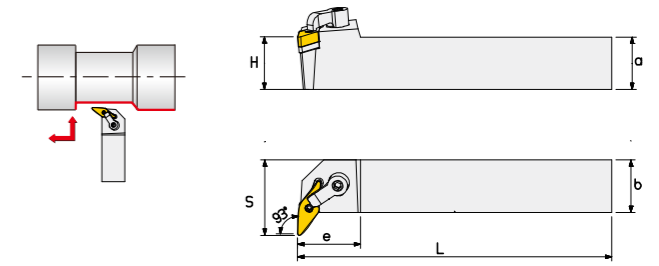
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
MVJNR1616H16	MVJNL1616H16	○	○	16	16	100	16	22	43				WS061025	
MVJNR2020K16	MVJNL2020K16	○	○	20	20	125	20	26	45					
MVJNR2525M16	MVJNL2525M16	○	○	25	25	150	25	32	45	VN..1604..	MV1603	MSP513	MCL2414	S2
MVJNR3225P16	MVJNL3225P16	○	○	32	25	170	32	32	45				WS061030	S3
MVJNR3232P16	MVJNL3232P16	○	○	32	32	170	32	40	45					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MVUNR/L



右手刀图例

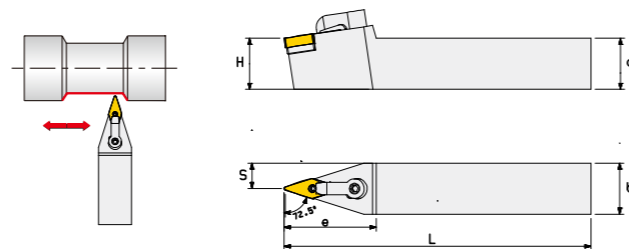
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
MVUNR1616H16	MVUNL1616H16	○	○	16	16	100	16	20	45					
MVUNR2020K16	MVUNL2020K16	○	○	20	20	125	20	25	45					
MVUNR2525M16	MVUNL2525M16	○	○	25	25	150	25	32	45	VN..1604..	MV1603	MSP513	MCL2414	S2
MVUNR3225P16	MVUNL3225P16	○	○	32	25	170	32	32	45				WS061030	S3
MVUNR3232P16	MVUNL3232P16	○	○	32	32	170	32	40	45					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

72° 30' MVVNN

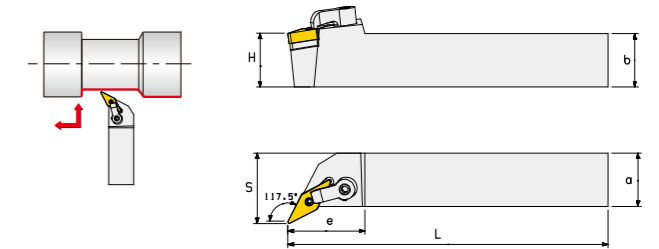


型号 Model	库存 Stock	尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
		a	b	L	h	s	e					
MVVNN2020K16	○	20	20	125	20	10	45				WS061025	
MVVNN2525M16	○	25	25	150	25	12.5	45					S2
MVVNN3225P16	○	32	25	170	32	12.5	45	VN..1604..	MV1603	MSP513	MCL2414	S3
MVVNN3232P16	○	32	32	170	32	16	45				WS061030	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

117.5° MVQNR/L

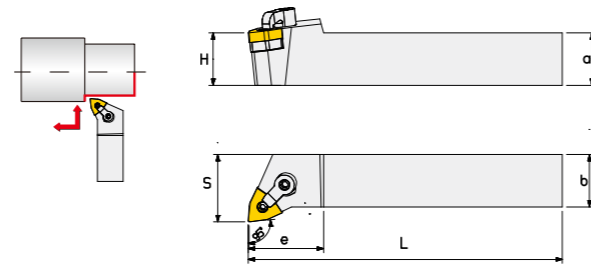


型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
MVQNR1616h16	MVQNL1616h16	○	○	16	16	100	16	24	36					
MVQNR2020K16	MVQNL2020K16	○	○	20	20	125	20	27	36					
MVQNR2525M16	MVQNL2525M16	○	○	25	25	150	25	33	36	VN..1604..	MV1603	MSP513	MCL2114	S2
MVQNR3225P16	MVQNL3225P16	○	○	32	25	170	32	33	36				WS061030	S3
MVQNR3232P16	MVQNL3232P16	○	○	32	32	170	32	40	36					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° MWLNR/L



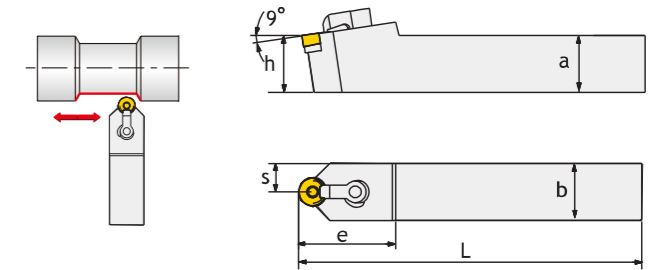
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench	
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
MWLNR2020K06	MWLN2020K06	○	○	20	20	125	20	25	28	WN..0604..	MW0603	MSP513		WS061025	S2
MWLNR2525M06	MWLN2525M06	○	○	25	25	150	25	32	30					WS061030	S3
MWLNR2020K08	MWLN2020K08	○	○	20	20	125	20	26	28			MCL1814	WS061025		
MWLNR2525M08	MWLN2525M08	○	○	25	25	150	25	32	35						
MWLNR3225P08	MWLN3225P08	○	○	32	25	170	32	32	35	WN..0804..	MW0804	MSP617		WS061030	S3
MWLNR3232P08	MWLN3232P08	○	○	32	32	170	32	40	35						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

MRDNN

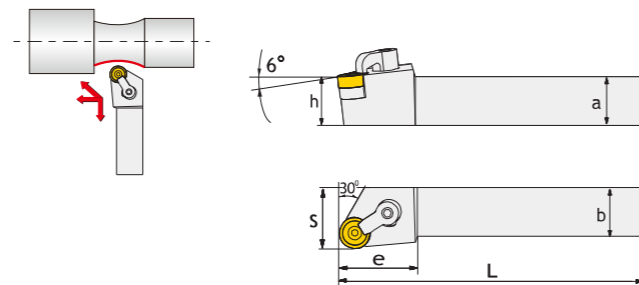


型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
MRDNN2020K12		○		20	20	125	20	10	30					WS061025
MRDNN2525M12		○		25	25	150	25	12.5	32					
MRDNN3225P12		○		32	25	170	32	12.5	30	RN..1204..	MR1204	MSP617	MCL1814	WS061030
MRDNN3232P12		○		32	32	170	32	16	30					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

MRGNR



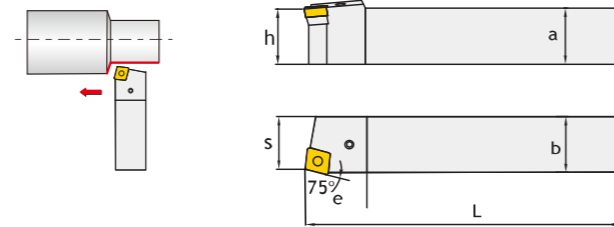
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Lock pin	压板 Clamp	压板螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
MRGNR2020K12	MRGNL2020K12	○	○	20	20	125	20	25	28					WS061025
MRGNR2525M12	MRGNL2525M12	○	○	25	25	150	25	32	32					
MRGNR3225P12	MRGNL3225P12	○	○	32	25	170	32	32	32	RN..1204..	MR1204	MSP617	MCL1814	WS061030
MRGNR3232P12	MRGNL3232P12	○	○	32	32	170	32	39	32					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° PCBNR/L



右手刀图例

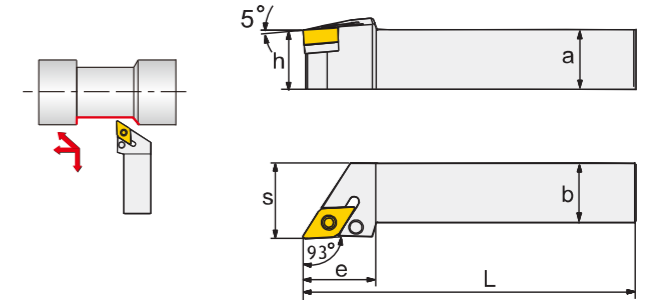
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PCBNR2020K12	PCBNL2020K12	○	○	20	20	125	20	17	30						
PCBNR2525M12	PCBNL2525M12	○	○	25	25	150	25	22	26	CN..1204..	PC12318	VHX0821	LV4	SP4	S3
PCBNR3232P12	PCBNL3232P12	○	○	32	32	170	32	29	27						
PCBNR2525M16	PCBNL2525M16	○	○	25	25	150	25	22	32	CN..1606..	PC16476	VHX0825	LV5	SP5	S3
PCBNR3232P16	PCBNL3232P16	○	○	32	32	170	32	27	33						
PCBNR3232P19	PCBNL3232P19	○	○	32	32	170	32	27	38	CN..1906..	PC19476	VHX1027	LV6	SP6	S4
PCBNR4040S19	PCBNL4040S19	○	○	40	40	250	40	35	38						
PCBNR4040S2507	PCBNL4040S2507	○	○	40	40	250	40	37	50	CN..2507..	PC25	VHX1236	LV8	SP8	S5
PCBNR4040S2509	PCBNL4040S2509	○	○	40	40	250	40	37	50	CN..2509..					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° PDJNR/L



右手刀图例

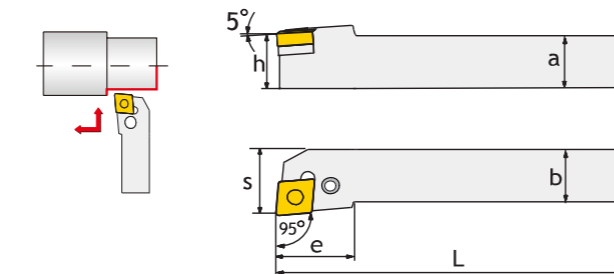
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PDJNR1616H11	PDJNL1616H11	○	○	16	16	100	16	20	25						
PDJNR2020K11	PDJNL2020K11	○	○	20	20	125	20	25	25	DN..1104..	PD11270	VHX0613	LV3	SP3	S2.5
PDJNR2525M11	PDJNL2525M11	○	○	25	25	150	25	30	30						
PDJNR2020K15	PDJNL2020K15	○	○	20	20	125	20	25	32						
PDJNR2525M15	PDJNL2525M15	○	○	25	25	150	25	32	35	DN..1506..	PD15318	VHX0825	LV4B	SP4	S3
PDJNR3232P15	PDJNL3232P15	○	○	32	32	170	32	38	35						
PDJNR2020K15-3	PDJNL2020K15-3	○	○	20	20	125	20	25	35						
PDJNR2525M15-3	PDJNL2525M15-3	○	○	25	25	150	25	32	35	DN..1504..	PD15318	VHX0801	LV4	SP4	S3
PDJNR3232P15-3	PDJNL3232P15-3	○	○	32	32	170	32	38	35						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° PCLNR/L

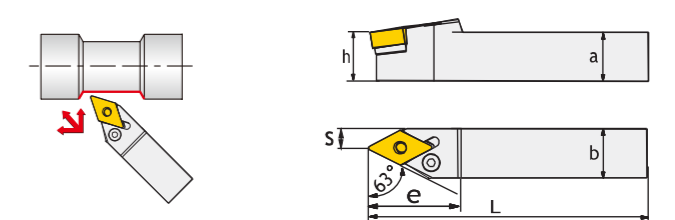


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PCLNR1616H09	PCLNL1616H09	○	○	16	16	100	16	20	20						
PCLNR2020K09	PCLNL2020K09	○	○	20	20	125	20	25	22	CN..0903..	PC09318	VHX0613	LV3	SP3	S2.5
PCLNR2525M09	PCLNL2525M09	○	○	25	25	150	25	32	22						
PCLNR2020K12	PCLNL2020K12	○	○	20	20	125	20	26	28						
PCLNR2525M12	PCLNL2525M12	○	○	25	25	150	25	32	28	CN..1204..	PC12318	VHX0821	LV4	SP4	S3
PCLNR3232P12	PCLNL3232P12	○	○	32	32	170	32	39	32						
PCLNR2525M16	PCLNL2525M16	○	○	25	25	150	25	32	36						
PCLNR3232P16	PCLNL3232P16	○	○	32	32	170	32	39	36	CN..1606..	PC16476	VHX0825	LV5	SP5	S3
PCLNR3232P19	PCLNL3232P19	○	○	32	32	170	32	40	40						
PCLNR4040S19	PCLNL4040S19	○	○	40	40	250	40	49	40	CN..1906..	PC19476	VHX1027	LV6	SP6	S4
PCLNR4040S2507	PCLNL4040S2507	○	○	40	40	250	40	50	47	CN..2507..	PC25	VHX1236	LV8	SP8	S5
PCLNR4040S2509	PCLNL4040S2509	○	○	40	40	250	40	50	47	CN..2509..					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

63° PDNNR/L



右手刀图例

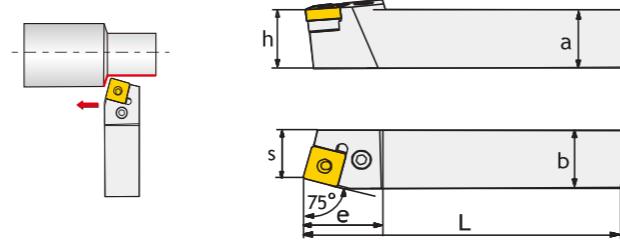
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PDNNR2020K15	PDNNL2020K15	○	○	20	20	125	20	8	37						
PDNNR2525M15	PDNNL2525M15	○	○	25	25	150	25	12.5	37	DN..1506..	PD15318	VHX0825	LV4B	SP4	S3
PDNNR3225P15	PDNNL3225P15	○	○	32	25	170	32	12.5	37						
PDNNR3232P15	PDNNL3232P15	○	○	32	32	170	32	16	37						
PDNNR2020K15-3	PDNNL2020K15-3	○	○	20	20	125	30	8	37						
PDNNR2525M15-3	PDNNL2525M15-3	○	○	25	25	150	25	12.5	37	DN..1504..	PD15318	VHX0821	LV4	SP4	S3
PDNNR3232P15-3	PDNNL3232P15-3	○	○	32	32	170	32	16	37						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° PSBNR/L



右手刀图例

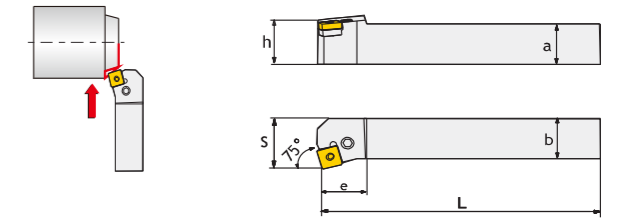
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PSBNR1616H09	PSBNL1616H09	○	○	16	16	100	16	13	21	SN..0903..	PS09318	VHX0613	LV3	SP3	S2.5
PSBNR2020K09	PSBNL2020K09	○	○	20	20	125	20	17	23						
PSBNR2020K12	PSBNL2020K12	○	○	20	20	125	20	17	28						
PSBNR2525M12	PSBNL2525M12	○	○	25	25	150	25	22	28	SN..1204..	PS12318	VHX0821	LV4	SP4	S3
PSBNR3225P12	PSBNL3225P12	○	○	32	32	170	32	22	28						
PSBNR3232P12	PSBNL3232P12	○	○	32	32	170	32	29	28						
PSBNR2525M15	PSBNL2525M15	○	○	25	25	150	25	22	32	SN..1506..	PS15476	VHX0825	LV5	SP5	S3
PSBNR3232O15	PSBNL3232O15	○	○	32	32	170	32	28	32						
PSBNR3232P19	PSBNL3232P19	○	○	32	32	170	32	36	45	SN..1906..	PS19476	VHX1027	LV6	SP6	S4
PSBNR4040S19	PSBNL4040S19	○	○	40	40	250	40	35	45						
PSBNR4040S2507	PSBNL4040S2507	○	○	40	40	250	40	35	50	SN..2507..	PS25634	VHX1236	LV8	SP8	S5
PSBNR4040S2509	PSBNL4040S2509	○	○	40	40	250	40	35	50	SN..2509..	PS25476				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° PSKNR/L



右手刀图例

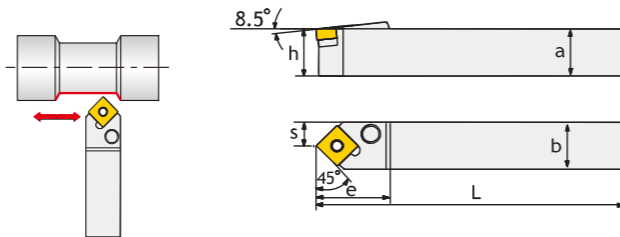
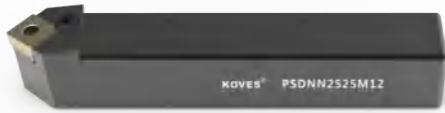
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PSKNR1616H09	PSKNL1616H09	○	○	16	16	100	16	20	17	SN..0903..	PS09318	VHX0613	LV3	SP3	S2.5
PSKNR2020K09	PSKNL2020K09	○	○	20	20	125	20	25	20						
PSKNR2020K12	PSKNL2020K12	○	○	20	20	125	20	25	26						
PSKNR2525M12	PSKNL2525M12	○	○	25	25	150	25	30	26	SN..1204..	PS12318	VHX2821	LV4	SP4	S3
PSKNR3232P12	PSKNL3232P12	○	○	32	32	170	32	38	26						
PSKNR2525M15	PSKNL2525M15	○	○	25	25	150	25	32	32	SN..1506..	PS15476	VHX0825	LV5	SP5	S3
PSKNR3232P15	PSKNL3232P15	○	○	32	32	170	32	38	32						
PSKNR3232P19	PSKNL3232P19	○	○	32	32	170	32	38	36	SN..1906..	PS19476	VHX1027	LV6	SP6	S4
PSKNR4040S19	PSKNL4040S19	○	○	40	40	250	40	48	32						
PSKNR4040S2507	PSKNL4040S2507	○	○	40	40	250	40	50	40	SN..2507..	PS25634	VHX1236	LV8	SP8	S5
PSKNR4040S2509	PSKNL4040S2509	○	○	40	40	250	40	50	40	SN..2509..	PS25476				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° PSDNN

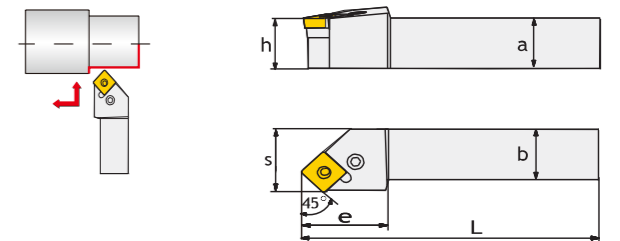


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
		a	b	L	h	s	e						
PSDNN2020K12	○	20	20	125	20	10	30						
PSDNN2525M12	○	25	25	150	25	12.5	32	SN..1204..	PS12318	VHX0821	LV4	SP4	S3
PSDNN3232P12	○	32	32	170	32	16	30						
PSDNN2525M15	○	25	25	150	25	12.5	40	SN..1506..	PS15476	VHX0825	LV5	SP5	S3
PSDNN3232P15	○	32	32	170	32	16	40						
PSDNN3232P19	○	32	32	170	32	16	40	SN..1906..	PS19476	VHX1027	LV6	SP6	S4
PSDNN4040S19	○	40	40	250	40	20	40						
PSDNN4040S2507	○	40	40	250	40	20	50	SN..2507..	PS25634	VHX1236	LV8	SP8	S5
PSDNN4040S2509	○	40	40	250	40	20	50	SN..2509..	PS25476				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° PSSNR/L



右手刀图例

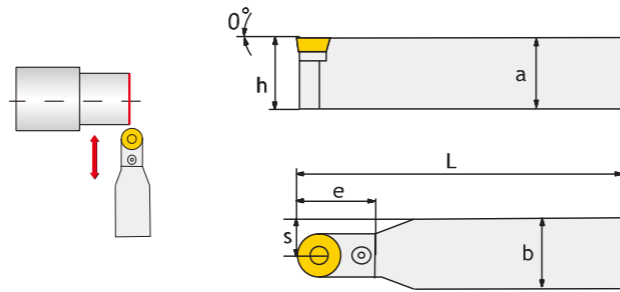
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PSSNR1616H09	PSSNL1616H09	○	○	16	16	100	16	18	25	SN..0903..	PS09318	VHX0613	LV3	SP3	S2.5
PSSNR2020K12	PSSNL2020K12	○	○	20	20	125	20	20	28						
PSSNR2525M12	PSSNL2525M12	○	○	25	25	150	25	25	32	SN..1204..	PS12318	VHX0821	LV4	SP4	S3
PSSNR3232P12	PSSNL3232P12	○	○	32	32	170	32	32	32						
PSSNR2525M15	PSSNL2525M15	○	○	25	25	150	25	25	35	SN..1506..	PS15476	VHX0825	LV5	SP5	S3
PSSNR3232P15	PSSNL3232P15	○	○	32	32	170	32	32	35						
PSSNR3232P19	PSSNL3232P19	○	○	32	32	170	32	32	40	SN..1906..	PS19476	VHX1027	LV6	SP6	S4
PSSNR4040S19	PSSNL4040S19	○	○	40	40	250	40	40	50						
PSSNR4040S2507	PSSNL4040S2507	○	○	40	40	250	40	40	50	SN..2507..	PS25634	VHX1236	LV8	SP8	S5
PSSNR4040S2509	PSSNL4040S2509	○	○	40	40	250	40	40	50	SN..2509..	PS25476				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

PRDCN

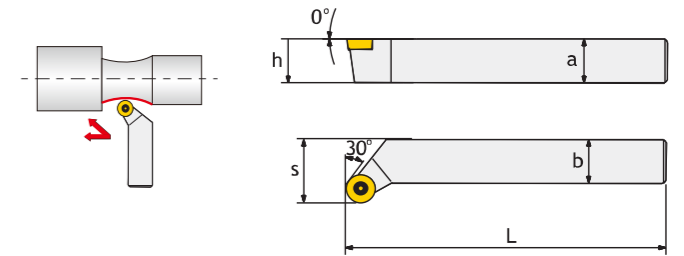


型号 Model	库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench	
	R	L	a	b	L	h	s							e
PRDCN2020K12	○	○	20	20	125	20	10	25	RCMX1204..	PR1204	VHX0613	LCL12C	SP3	S2.5
PRDCN2525M12	○	○	25	25	150	25	12.5	25	RCMX1606..	PR1604	VHX0621	LCL16C	SP4	S2.5
PRDCN2525M16	○	○	25	25	150	25	40	35	RCMX1606..	PR1604	VHX0621	LCL16C	SP4	S2.5
PRDCN3232P16	○	○	32	32	170	32	16	32	RCMX2006..	PR2004	VHX0825	LCL20C	SP5	S3
PRDCN3232P20	○	○	32	32	170	32	16	40	RCMX2006..	PR2004	VHX0825	LCL20C	SP5	S3
PRDCN4040T20	○	○	40	40	300	40	20	45	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4
PRDCN3232P25	○	○	32	32	170	32	16	45	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4
PRDCN4040T25	○	○	40	40	300	40	20	50	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

PRGCR/L



右手刀图例

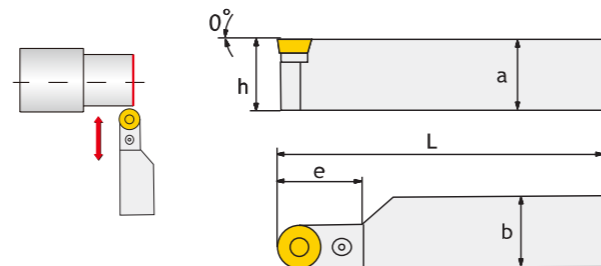
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	e						
PRGCR2020K12	PRGCL2020K12	○	○	20	20	125	20	25	RCMX1204..	PR1204	VHX0613	LCL12C	SP3	S2.5
PRGCR2525M12	PRGCL2525M12	○	○	25	25	150	25	32	RCMX1606..	PR1604	VHX0621	LCL16C	SP4	S2.5
PRGCR2525M16	PRGCL2525M16	○	○	25	25	150	25	35	RCMX1606..	PR1604	VHX0621	LCL16C	SP4	S2.5
PRGCR3232P16	PRGCL3232P16	○	○	32	32	170	32	42	RCMX2006..	PR2004	VHX0825	LCL20C	SP5	S3
PRGCR3232P20	PRGCL3232P20	○	○	32	32	170	32	40	RCMX2006..	PR2004	VHX0825	LCL20C	SP5	S3
PRGCR3232T20	PRGCL3232T20	○	○	40	40	300	40	50	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4
PRGCR3232P25	PRGCL3232P25	○	○	32	32	170	32	45	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4
PRGCR4040T25	PRGCL4040T25	○	○	40	40	300	40	56	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

PRACR/L



右手刀图例

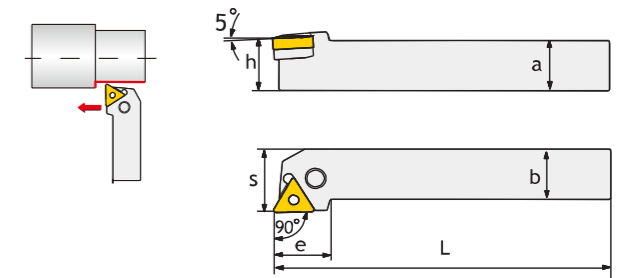
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	e						
PRACR2020K12	PRACL2020K12	○	○	20	20	125	20	30	RCMX1204..	PR1204	VHX0613	LCL12C	SP3	S2.5
PRACR2525M12	PRACL2525M12	○	○	25	25	150	25	30	RCMX1606..	PR1604	VHX0621	LCL16C	SP4	S2.5
PRACR2525M16	PRACL2525M16	○	○	25	25	150	25	35	RCMX1606..	PR1604	VHX0621	LCL16C	SP4	S2.5
PRACR3232P16	PRACL3232P16	○	○	32	32	170	32	35	RCMX2006..	PR2004	VHX0825	LCL20C	SP5	S3
PRACR3232P20	PRACL3232P20	○	○	32	32	170	32	40	RCMX2006..	PR2004	VHX0825	LCL20C	SP5	S3
PRACR4040T20	PRACL4040T20	○	○	40	40	300	40	50	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4
PRACR3232P25	PRACL3232P25	○	○	32	32	170	32	45	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4
PRACR4040T25	PRACL4040T25	○	○	40	40	300	40	50	RCMX2507..	PR2506	VHX1030	LCL25C	SP6	S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° PTGNR/L



右手刀图例

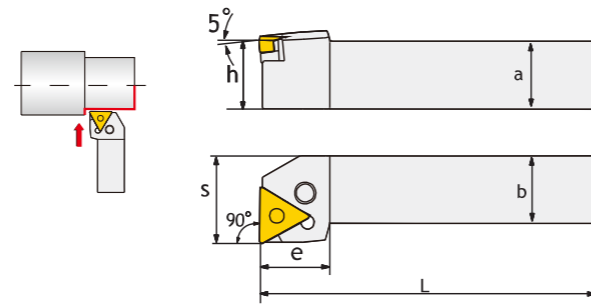
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench	
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s							e
PTGNR1616H11	PTGNL1616H11	○	○	16	16	100	16	19	18	TN..1103..	-	VHX059B	LV2	-	S2
PTGNR2020K11	PTGNL2020K11	○	○	20	20	125	20	24	20	TN..1604..	PT16	VHX0617	LV3	SP3	S2.5
PTGNR2525M11	PTGNL2525M11	○	○	25	25	150	25	29	20	TN..2204..	PT22	VHX0821	LV4	SP4	S3
PTGNR1616H16	PTGNL1616H16	○	○	16	16	100	16	19	22	TN..2706..	PT27	VHX0825	LV5	SP5	S3
PTGNR2020K16	PTGNL2020K16	○	○	20	20	125	20	23	25						
PTGNR2525M16	PTGNL2525M16	○	○	25	25	150	25	29	25						
PTGNR3232P16	PTGNL3232P16	○	○	32	32	170	32	37	32						
PTGNR2525M22	PTGNL2525M22	○	○	25	25	150	25	30	30						
PTGNR3232P22	PTGNL3232P22	○	○	32	32	170	32	37	32						
PTGNR3232P27	PTGNL3232P27	○	○	32	32	170	32	37	38						
PTGNR4040S27	PTGNL4040S27	○	○	40	40	250	40	47	38						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° PTFNR/L



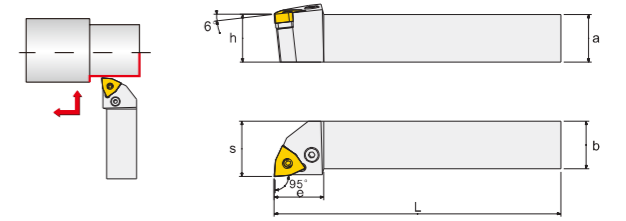
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PTFNR1616H16	PTFNL1616H16	○	○	16	16	100	16	20	20	TN..1604..	PT16	VHX0617	LV3	SP3	S2.5
PTFNR2020K16	PTFNL2020K16	○	○	20	20	125	20	25	20						
PTFNR2525M16	PTFNL2525M16	○	○	25	25	150	25	30	25						
PTFNR2525M22	PTFNL2525M22	○	○	25	25	150	25	32	30	TN..2204..	PT22	VHX0821	LV4	SP4	S3
PTFNR3232P22	PTFNL3232P22	○	○	32	32	170	32	38	30						
PTFNR3232P27	PTFNL3232P27	○	○	32	32	170	32	38	35						
PTFNR4040S27	PTFNL4040S27	○	○	40	40	250	40	50	34	TN..2706..	PT27	VHX0825	LV5	SP5	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° PWLNR/L



右手刀图例

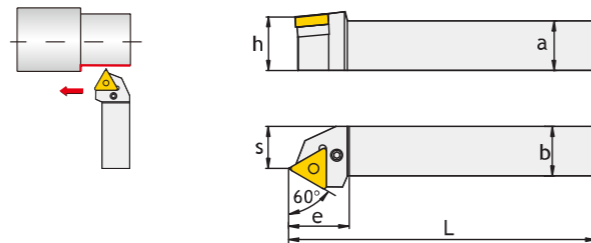
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PWLNR1616H06	PWLNL1616H06	○	○	16	16	100	16	19	22						
PWLNR2020K06	PWLNL2020K06	○	○	20	20	125	20	23	25	WN..0604..	PW06270	VHX0617	LV3	SP3	S2.5
PWLNR2525M06	PWLNL2525M06	○	○	25	25	150	25	28	25						
PWLNR2020K08	PWLNL2020K08	○	○	20	20	125	20	25	26						
PWLNR2525M08	PWLNL2525M08	○	○	25	25	150	25	29	26	WN..0804..	PW08318	VHX0821	LV4	SP4	S3
PWLNR3232P08	PWLNL3232P08	○	○	32	32	170	32	37	26						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

60° PTTNR/L



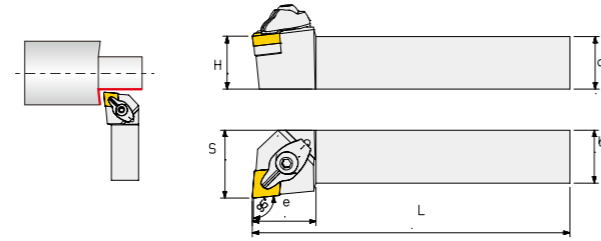
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Screw	压板 Lever	压板螺钉 Shim pin	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
PTTNR1616H16	PTTNL1616H16	○	○	16	16	100	16	13	22	TN..1604..	PT16	VHX0617	LV3	SP3	S2.5
PTTNR2020K16	PTTNL2020K16	○	○	20	20	125	20	17	22						
PTTNR2525M22	PTTNL2525M22	○	○	25	25	150	25	22	32	TN..2204..	PT22	VHX0821	LV4	SP4	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° DCLNR/L



右手刀图例

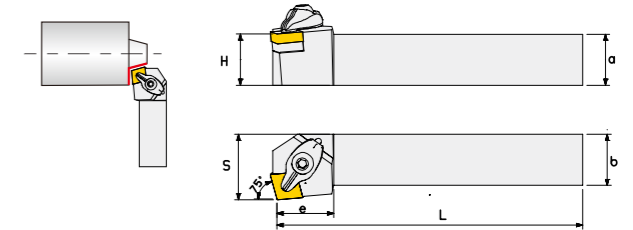
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
DCLNR2020K12	DCLNL2020K12	○	○	20	20	125	20	27	32						
DCLNR2525M12	DCLNL2525M12	○	○	25	25	150	25	32	30	CN..1204..	MC1204	DM0626	DCL2612	DSP0612	S4
DCLNR3232P12	DCLNL3232P12	○	○	32	32	170	32	39	30						S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° DCKNR/L



右手刀图例

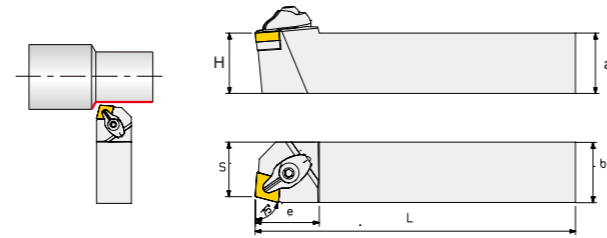
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
DCKNR2020K12	DCKNL2020K12	○	○	20	20	125	20	26	28						
DCKNR2525M12	DCKNL2525M12	○	○	25	25	150	25	32	28	CN..1204..	MC1204	DM0626	DCL2612	DSP0612	S3
DCKNR3232P12	DCKNL3232P12	○	○	32	32	170	32	39	28						S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° DCBNR/L



右手刀图例

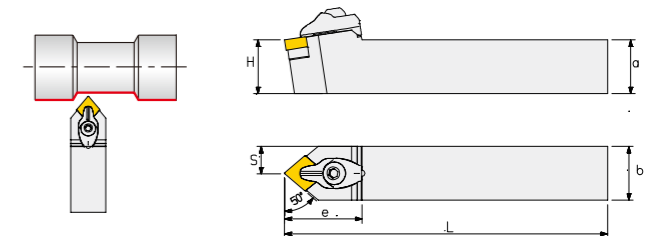
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
DCBNR2020K12	DCBNL2020K12	○	○	20	20	125	20	17	34						
DCBNR2525M12	DCBNL2525M12	○	○	25	25	150	25	22	36	CN..1204..	MC1204	DM0625	DCL2612	DSP0612	S4
DCBNR3232P12	DCBNL3232P12	○	○	32	32	170	32	29	34						S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

50° DCMNN

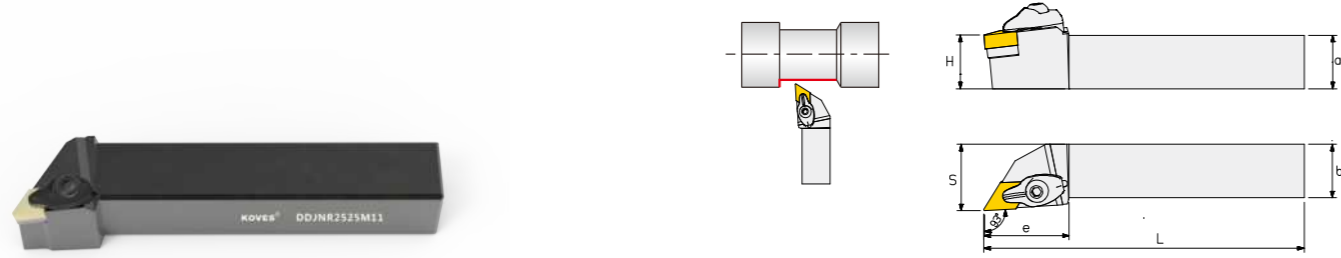


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
		a	b	L	h	s	e						
DCMNN2020K12	○	20	20	125	20	10	36						
DCMNN2525M12	○	25	25	150	25	12.5	36	CN..1204..	MC1204	DM0626	DCL2612	DSP0612	S3
DCMNN3232P12	○	32	32	170	32	16	36						S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° DDJNR/L



右手刀图例

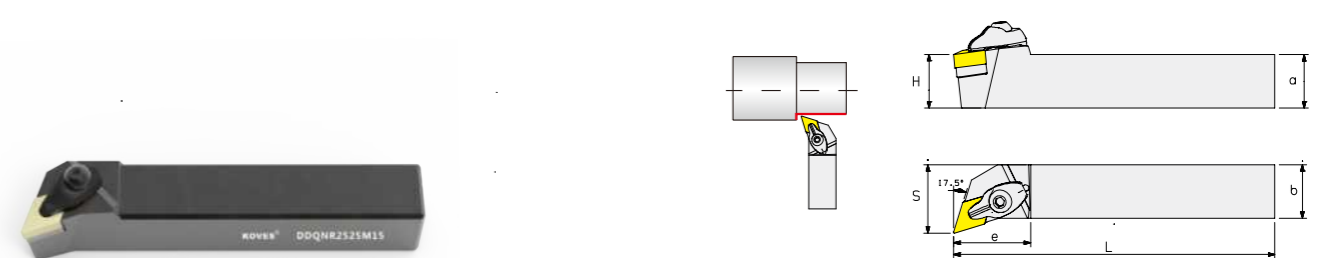
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
DDJNR2020K11	DDJNL2020K11	○	○	20	20	125	20	25	28						
DDJNR2525M11	DDJNL2525M11	○	○	25	25	150	25	30	28	CN..1104..	MC1103	DM0520	DCL2211	DSP0510	S3
DDJNR2020K1504	DDJNL2020K1504	○	○	32	32	125	20	25	28						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

107.5° DDQNR/L



右手刀图例

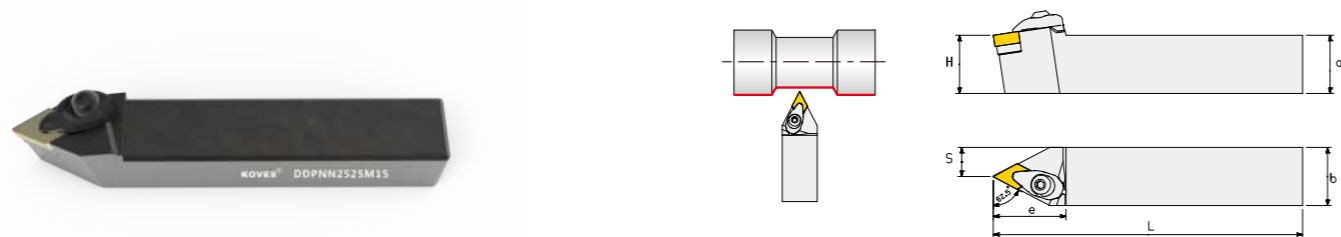
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
DDQNR2020K11	DDQNL2020K11	○	○	20	20	125	20	25	28						
DDQNR2525M11	DDQNL2525M11	○	○	25	25	150	25	31	28	DN..1104..	MD1103	DM0520	DCL2211	DSP0510	S4 43
DDQNR2020K1504	DDQNL2020K1504	○	○	20	20	125	20	26	36						
DDQNR2525M1504	DDQNL2525M1504	○	○	25	25	150	25	32	36	DN..1504..					
DDQNR3232P1504	DDQNL3232P1504	○	○	32	32	170	32	38	36		MD1504	DM0625	DCL2612	DSP0612	S4 43
DDQNR2020K1506	DDQNL2020K1506	○	○	20	20	125	20	26	36						
DDQNR2525M1506	DDQNL2525M1506	○	○	25	25	150	25	32	36	DN..1506..					
DDQNR3232P1506	DDQNL3232P1506	○	○	32	32	170	32	38	36						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

62.5° DDPNN

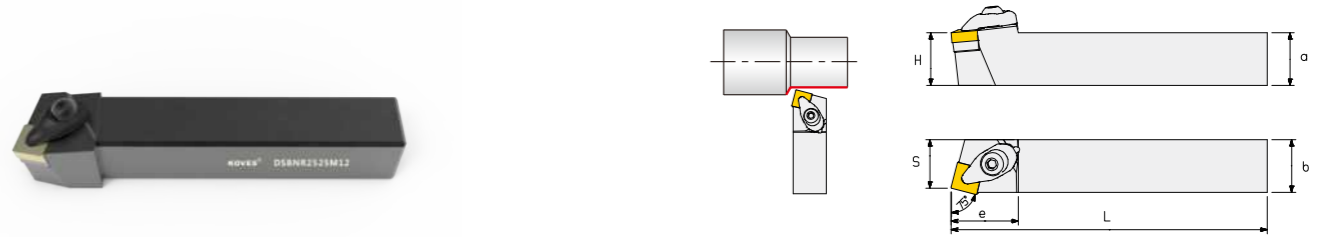


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
		a	b	L	h	s	e						
DDPNN2020K11	○	20	20	125	20	10	32						
DDPNN2525M11	○	25	25	150	25	12.5	36	DN..1104..	MD1103	DM0520	DCL2211	DSP0510	S3
DDPNN2020K1504	○	20	20	125	20	10	36						
DDPNN2525M1504	○	25	25	150	25	12.5	36	DN..1504..					
DDPNN3232P1504	○	32	32	170	32	16	36						
DDPNN2020K1506	○	20	20	125	20	10	36		MD1504	DM0625	DCL2612	DSP0612	S4
DDPNN2525M1506	○	25	25	150	25	12.5	36	DN..1506..					S3
DDPNN3232P1506	○	32	32	170	32	16	36						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° DSBNR/L

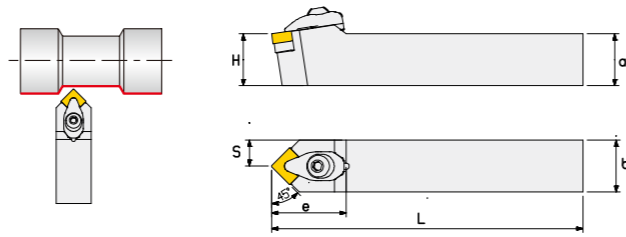


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Screw	扳手 Wrench
		a	b	L	h	s	e						
DSBNR2020K12	○	20	20	125	20	18	34						
DSBNR2525M12	○	25	25	150	25	23	32	SN..1204..	MS1204	DM0625	DCL2612	DSP0612	S3
DSBNR3232P12	○	32	32	170	32	30	33						S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° DSDNN

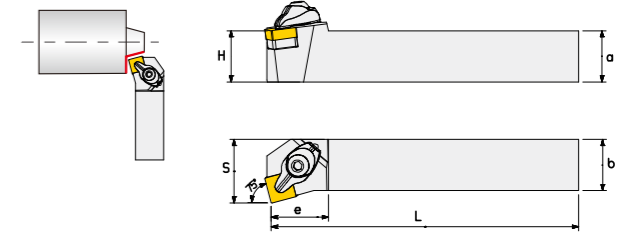


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Screw	扳手 Wrench
		a	b	L	h	s	e						
DSDNN2020K12	○	20	20	125	20	10	36	SN..1204..	MS1204	DM0625	DCL2612	DSP0612	S3
DSDNN2525M12	○	25	25	150	25	12.5	36						S4
DSDNN3232P12	○	32	32	170	32	12.5	36						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° DSKNR/L



右手刀图例

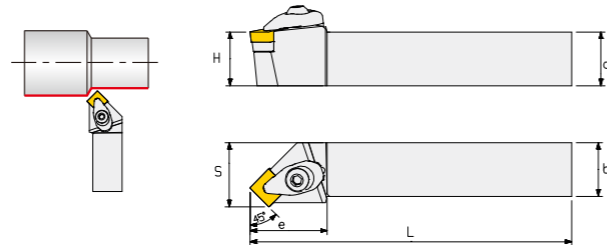
Legend of right hand knife

型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Screw	扳手 Wrench
		a	b	L	h	s	e						
右刀 Right hand													
左刀 Left hand													
DSKNR2020K12	○	20	20	125	20	26	28	CN..1204..	MS1204	DM0625	DCL2612	DSP0612	S3
DSKNR2525M12	○	25	25	150	25	36	28						S4
DSKNR3232P12	○	32	32	125	20	38	32						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° DSSNR/L



右手刀图例

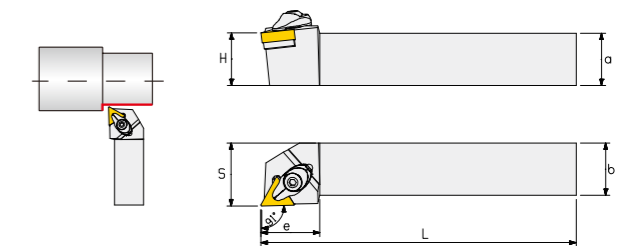
Legend of right hand knife

型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Screw	扳手 Wrench
		a	b	L	h	s	e						
DSSNR2020K12	○	20	20	125	20	25	36	CN..1204..	Ms1204	DM0625	DCL2612	DSP0612	S3
DSSNR2525M12	○	25	25	150	25	30	35						S4
DSSNR3232P12	○	32	32	170	32	38	35						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° DTGNR

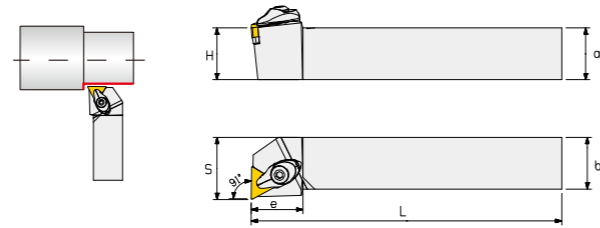


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Screw	扳手 Wrench
		a	b	L	h	s	e						
DTGNR2020K16	○	20	20	125	20	24	28	TN..1604..	MT1603	DM520	DCL2211	DSP0510	S3
DTGNR2525M16	○	25	25	150	25	30	28						
DTGNR3225P16	○	32	25	170	32	30	28						
DTGNR3232P16	○	32	32	170	32	38	32						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° DTFNR



右手刀图例

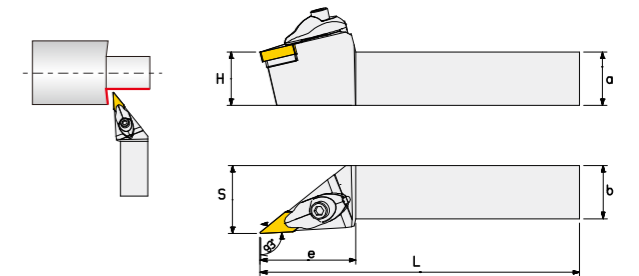
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Spring	扳手 Wrench	
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
DTFNR2020K16	DTFNL2020K16	○	○	20	20	125	20	25	28	CN..1204..	MT1603	DM0520	DCL2211	DSP0510	S3
DTFNR2525M16	DTFNL2525M16	○	○	25	25	150	25	30	26						
DTFNR3225P16	DTFNL3225P16	○	○	32	25	170	32	30	26						
DTFNR3232P16	DTFNL3232P16	○	○	32	32	170	32	38	26						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° DVJNR



右手刀图例

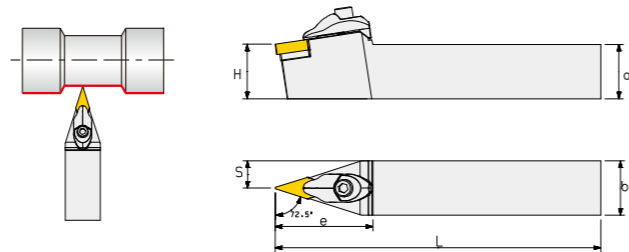
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Spring	扳手 Wrench	
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
DVJNR2020K16	DVJNL2020K16	○	○	20	20	125	20	26	45	VN..1604..	MV1603	M5X25 (内六角)	DCL3113	DSP0510	S3 S4
DVJNR2525M16	DVJNL2525M16	○	○	25	25	150	25	32	45						
DVJNR3225P16	DVJNL3225P16	○	○	32	25	170	32	32	45						
DVJNR3232P16	DVJNL3232P16	○	○	32	32	170	32	40	45						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

72.5° DVVNN

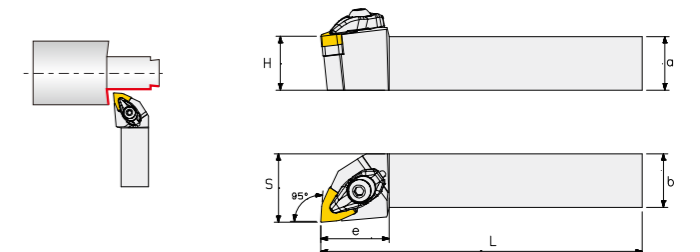


型号 Model	库存 Stock	尺寸 Size (mm)					刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Spring	扳手 Wrench	
		a	b	L	h	s	e						
DVVNN2020K16	○	20	20	125	20	10	45	TN..1604..	MV1603	M5X25 (内六角)	DCL3113	DSP0510	S3
DVVNN2525M16	○	25	25	150	25	12.5	45						
DVVNN3225P16	○	32	25	170	32	12.5	45						
DVVNN3232P16	○	32	32	170	32	16	45						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° DWLNR

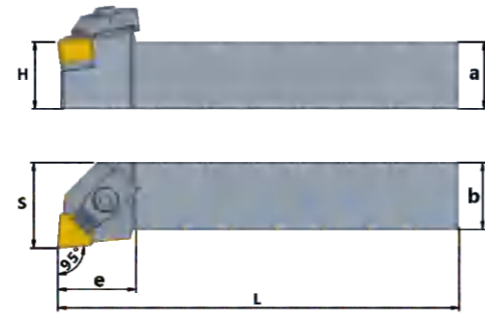


型号 Model	库存 Stock	尺寸 Size (mm)					刀片 Insert	刀垫 Shim	锁销 Clamp Screw	压板 Clamp	压板螺钉 Spring	扳手 Wrench	
		a	b	L	h	s	e						
DWLNR2020K08	○	20	20	125	20	25	32	WN..0804..	WM0804	DM0625	DCL2612	DSP0612	S4 S3
DWLNR2525M08	○	25	25	150	25	32	31						
DWLNR3225P08	○	32	32	170	32	32	31						
DWLNR3232P08	○	32	32	170	32	39	31						
DWLNR2020K06	○	20	20	125	20	25	25	WN..0603..	WM0603	DM0520	DCL2211	DSP0510	S3
DWLNR2525M06	○	25	25	150	25	30	25						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° CCLNR/L



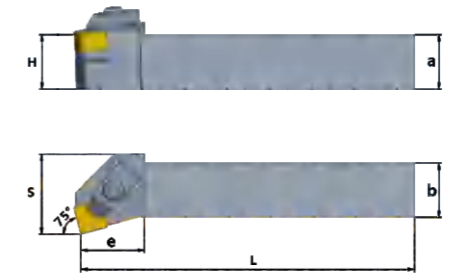
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
CCLNR2020K12	CCLNL2020K12	○	○	20	20	125	20	26	32	●	MC1204	DM0625	CCL2612	S4
CCLNR2525M12	CCLNL2525M12	○	○	25	25	150	25	31	31	●	MC1604	DM0830	CCL2816	S3
CCLNR2525M16	CCLNL2525M16	○	○	25	25	150	25	32	36	●	MC1604	DM0830	CCL2816	S4
CCLNR3225P16	CCLNL3225P16	○	○	32	25	170	32	32	36	●	MC1604	DM0830	CCL2816	S4

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° CSKNR/L



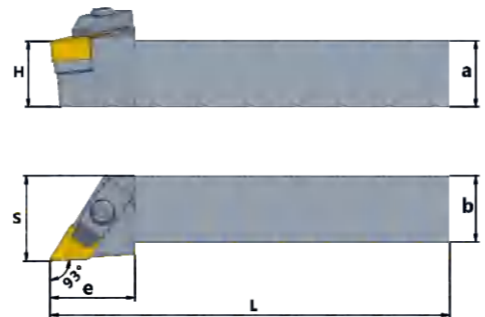
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
CSKNR2020K12	CSKNL2020K12	○	○	20	20	125	20	26	28	●	MS1204	DM0625	CCL2612	S4
CSKNR2525M12	CSKNL2525M12	○	○	25	25	150	25	32	30	●	MS1204	DM0625	CCL2612	S3
CSKNR3225P12	CSKNL3225P12	○	○	32	25	170	32	32	30	●	MS1204	DM0625	CCL2612	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° CDJNR/L



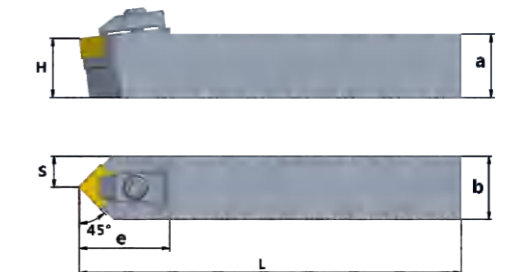
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
CDJNR2525M15	CDJNL2525M15	○	○	25	25	150	25	32	40	●	MD1504	DM0625	CCL2612	S4
CDJNR3225P15	CDJNL3225P15	○	○	32	25	170	32	32	40	●	MD1504	DM0625	CCL2612	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

CSDNN

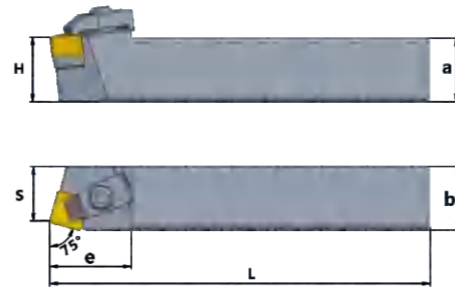


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
		a	b	L	h	s	e					
CSDNN2020K12	○	20	20	125	20	10	36	●	MS1204	DM0625	CCL2612	S4
CSDNN2525M12	○	25	25	150	25	12.5	36	●	MS1204	DM0625	CCL2612	S3
CSDNN3225P12	○	32	25	170	32	12.5	36	●	MS1204	DM0625	CCL2612	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° CSRNR/L



右手刀图例

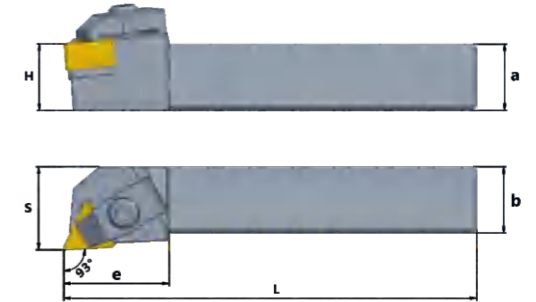
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
CSRNR2020K12	CSRNL2020K12	○	○	20	20	125	20	22	32	SN..1207..	MS1204	DM0625	CCL2612	S4
CSRNR2525M12	CSRNL2525M12	○	○	25	25	150	25	27	32					S3
CSRNR3225P12	CSRNL3225P12	○	○	32	25	170	32	27	32					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° CTJNR/L



右手刀图例

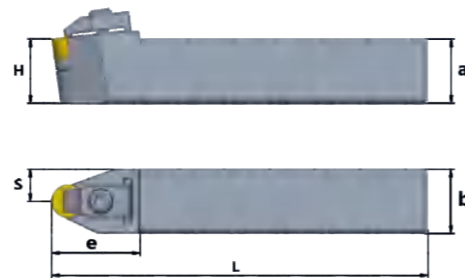
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
CTJNR2020K16	CTJNL2020K16	○	○	20	20	125	20	26	32	CN..1607..	MT1603	DM0625	CCL2612	S4
CTJNR2525M16	CTJNL2525M16	○	○	25	25	150	25	31	32					S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

CRDNN

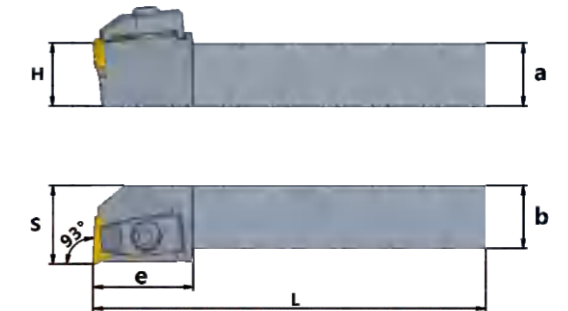


型号 Model	库存 Stock	a	b	尺寸 Size (mm)				刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
				L	h	s	e					
CRDNN2020K12	○	20	20	125	20	10	36	SN..1207..	MS1204	DM0625	CCL2612	S3
CRDNN2525M12	○	25	25	150	25	12.5	36					S4
CRDNN3225P12	○	32	25	170	32	12.5	36					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° CTUNR/L



右手刀图例

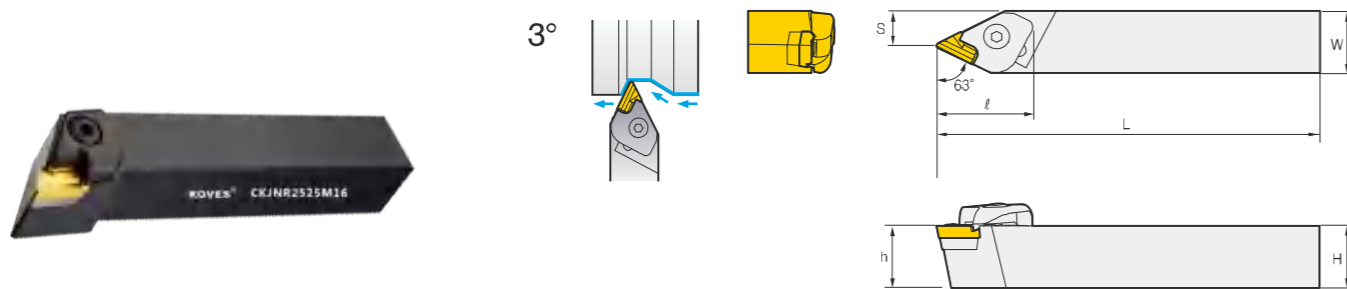
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e					
CTUNR2020K16	CTUNL2020K16	○	○	20	20	125	20	25	32	PN..16..	MT1603	DM0625	CCL2612	S4
CTUNR2525M16	CTUNL2525M16	○	○	25	25	150	25	35	32					S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

CKJNR/L



右手刀图例

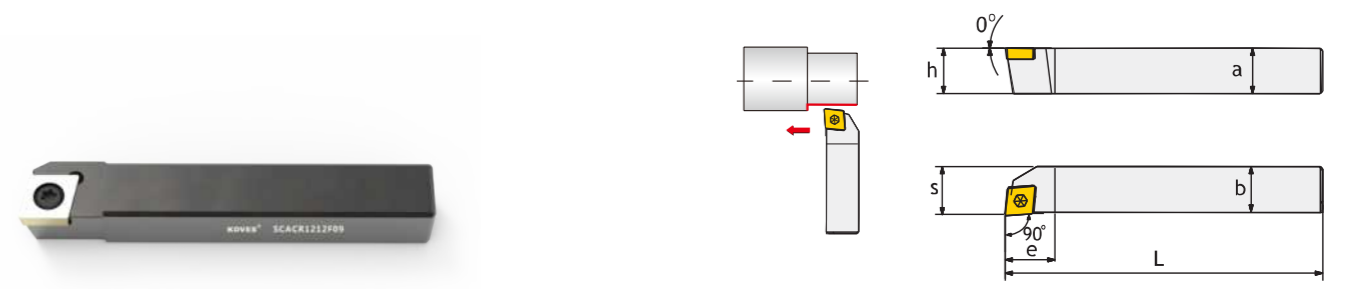
Legend of right hand knife

型号 Model	库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	压板螺钉 Clamp Screw	压板 Clamp	弹簧 Spring	扳手 Wrench	刀垫螺钉 Shim Screw	销+弹簧 Pin+Spring
	R	L	a	b	L	h	s	e								
CKJNR2020-K16	○	○	20	20	125	25	20	32	KN..1604..R	SK33C	CHX0625	CTH6R1	SR3	HW20L HW40L	SHX0310	PN0515 SR4
CKJNR2525-M16	○	○	25	25	150	32	25	32								
CKJNR3225-M16	○	○	32	25	170	32	32	32								
CKJNR3232-P16	○	○	32	32	170	40	32	32								
CKJNR4040-R16	○	○	40	40	200	50	40	32								
CKJNR4040-R16	○	○	40	40	200	50	40	32								
CKJNL2020-K16	○	○	20	20	125	25	20	32	KN..1604..L	SK33CL	CHX0625	CTH6L1	SR3	HW20L HW40L	SHX0310	PN0515 SR4
CKJNR2525-M16	○	○	25	25	150	32	25	32								
CKJNR3232-P16	○	○	32	32	170	40	32	32								
CKJNR3232-P16	○	○	32	32	170	40	32	32								
CKJNR4040-R16	○	○	40	40	200	50	40	32								
CKJNR4040-R16	○	○	40	40	200	50	40	32								

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° SCACR/L



右手刀图例

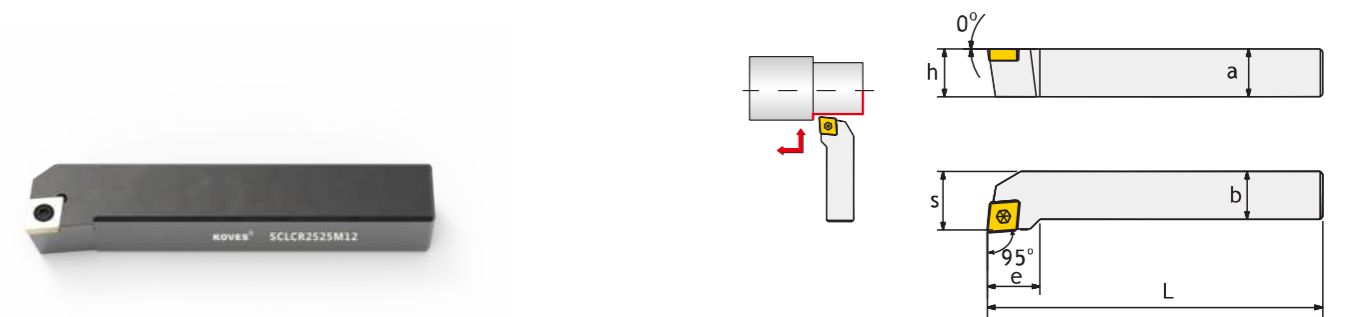
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SCACR1010E06	SCACL1010E06	○	○	10	10	70	10	10.5	10	CC..T0602..	L60M2.5×5	T08
SCACR1212F09	SCACL1212F09	○	○	12	12	80	12	12.7	16				CC..T09T3..	L60M4×8	T15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° SCLCR/L



右手刀图例

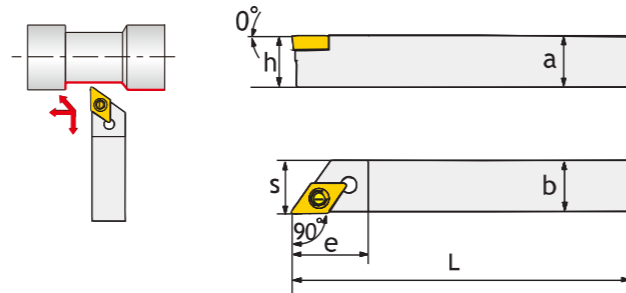
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SCLCR1212F09	SCLCL1212F09	○	○	12	12	80	12	15	16	CC..T09T3..	L60M4×8	T15
SCLCR1616H09	SCLCL1616H09	○	○	16	16	100	16	20	16			
SCLCR2020K09	SCLCL2020K09	○	○	20	20	125	20	23	20			
SCLCR2020K12	SCLCL2020K12	○	○	20	20	125	20	24	25			
SCLCR2525M12	SCLCL2525M12	○	○	25	25	150	25	29	25	CC..T1204..	L60M5×12	T20
SCLCR3225P12	SCLCL3225P12	○	○	32	32	170	32	29	25			
SCLCR3232P12	SCLCL3232P12	○	○	32	32	170	32	36	38			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° SDACR/L



右手刀图例

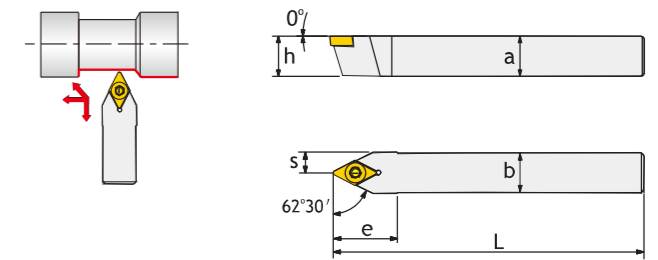
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SDACR1010E07	SDACL1010E07	○	○	10	10	70	10	10.5	15	DC..T0702..	L60M2.5×5	T08
SDACR1212F11	SDACL1212F11	○	○	12	12	12	12	12.5	20			
SDACR1616H11	SDACL1616H11	○	○	16	16	16	16	16.7	20			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

60° 30' SDNCN

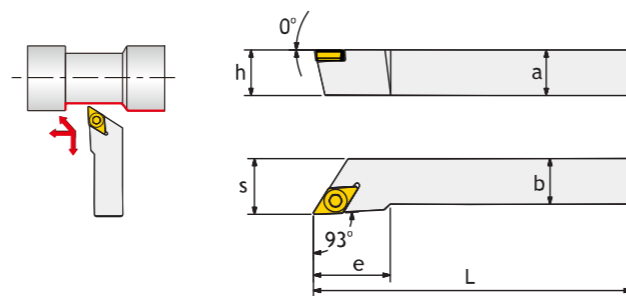


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SDNCN1010E07		○		10	10	70	10	5	16	DC..T0702..	L60M2.5×5	T08
SDNCN1212F07		○		12	12	80	12	6	20			
SDNCN1212H11		○		12	12	100	12	6	22			
SDNCN1616H11		○		16	16	100	16	8	22	DC..T11T3..	L60M4×8	T15
SDNCN2020K11		○		20	20	125	20	10	22			
SDNCN2525M11		○		25	25	150	25	12.5	22			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° SDJCR/L



右手刀图例

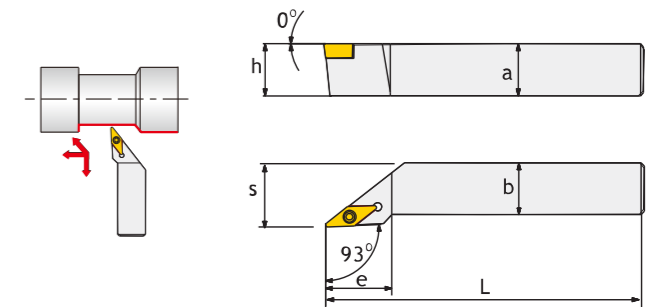
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SDJCR1010E07	SDJCR1010E07	○	○	10	10	70	10	12	15	DC..T0702..	L60M2.5×5	T08
SDJCR1212F07	SDJCR1212F07	○	○	12	12	80	12	14	15			
SDJCR1616H07	SDJCR1616H07	○	○	16	16	100	16	18	18			
SDJCR2020K07	SDJCR2020K07	○	○	20	20	125	20	22	18	DC..T11T3..	L60M4×8	T15
SDJCR1616H11	SDJCR1616H11	○	○	16	16	100	16	19	20			
SDJCR2020K11	SDJCR2020K11	○	○	20	20	125	20	23	26			
SDJCR2525M11	SDJCR2525M11	○	○	25	25	150	25	28	26	VC..T1103..	L60M2.5×5	T08
SDJCR3225P11	SDJCR3225P11	○	○	32	32	170	32	28	26			
SDJCR3232P11	SDJCR3232P11	○	○	32	32	170	32	35	31			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° SVJCR/L



右手刀图例

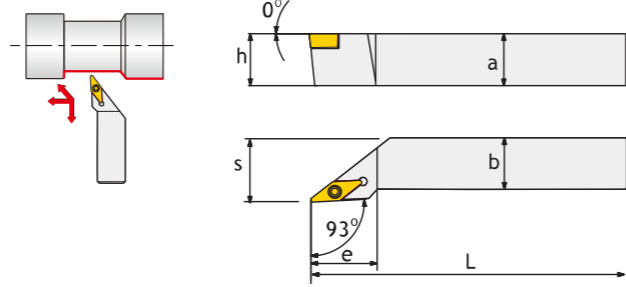
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SVJCR1212F11	SVJCL1212F11	○	○	12	12	80	12	14	20	VC..T1103..	L60M2.5×5	T08
SVJCR1616H11	SVJCL1616H11	○	○	16	16	100	16	18	22			
SVJCR2020K11	SVJCL2020K11	○	○	20	20	125	20	22	27			
SVJCR2525M11	SVJCL2525M11	○	○	25	25	150	25	27	35	VC..T1604..	L60M4×8	T15
SVJCR1616H16	SVJCL1616H16	○	○	16	16	100	16	18	32			
SVJCR2020K16	SVJCL2020K16	○	○	20	20	125	20	22	32			
SVJCR2525M16	SVJCL2525M16	○	○	25	25	150	25	27	35	VC..T1604..	L60M4×8	T15
SVJCR3225P16	SVJCL3225P16	○	○	32	25	170	32	27	35			
SVJCR3232P16	SVJCL3232P16	○	○	32+	32	170	32	35	45			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° SVJBR/L



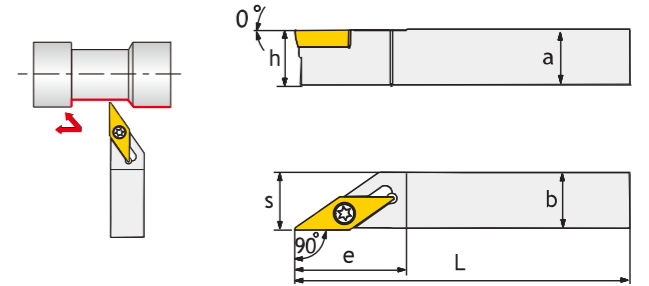
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e				
SVJBR1212F11	SVJBL1212F11	○	○	12	12	80	12	14	27	VB..T1103..	L16M2.5×5	T08	
SVJBR1616H11	SVJBL1616H11	○	○	16	16	100	16	18	27				
SVJBR2020K11	SVJBL2020K11	○	○	20	20	125	20	22	27				
SVJBR2525M11	SVJBL2525M11	○	○	25	25	150	25	27	27	VB..T1604..	L60M4×8	T15	
SVJBR1616H16	SVJBL1616H16	○	○	16	16	100	16	18	36				
SVJBR2020K16	SVJBL2020K16	○	○	20	20	125	20	22	41				
SVJBR2525M16	SVJBL2525M16	○	○	25	25	150	25	27	41				
SVJBR3225P16	SVJBL3225P16	○	○	32	25	170	32	27	41				
SVJBR3232P16	SVJBL3232P16	○	○	32	32	170	32	35	41				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° SVACR/L



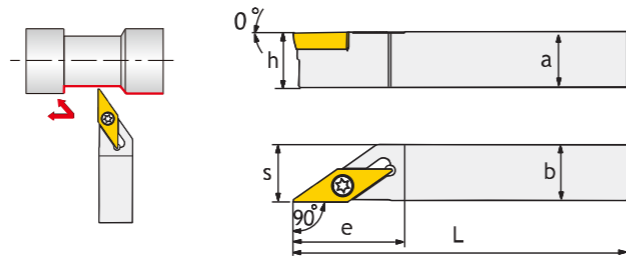
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e				
SVACR1616H16	SVACL1616H16	○	○	16	16	100	16	16.5	32	VC..T1604..	L60M4×8	T15	
SVACR2020K16	SVACL2020K16	○	○	20	20	125	20	20.5	32				
SVACR2525M16	SVACL2525M16	○	○	25	25	150	25	25.5	38				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° SVABR/L



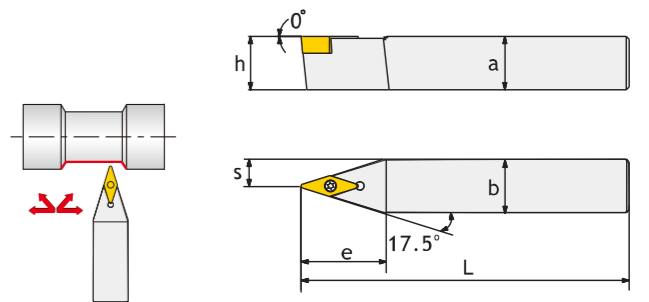
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e				
SVABR1616H16	SVABL1616H16	○	○	16	16	100	16	16.5	32	VC..T1604..	L60M4×8	T15	
SVABR2020K16	SVABL2020K16	○	○	20	20	125	20	20.5	32				
SVABR2525M16	SVABL2525M16	○	○	25	25	150	25	25.5	38				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

72° 30' SVVBN

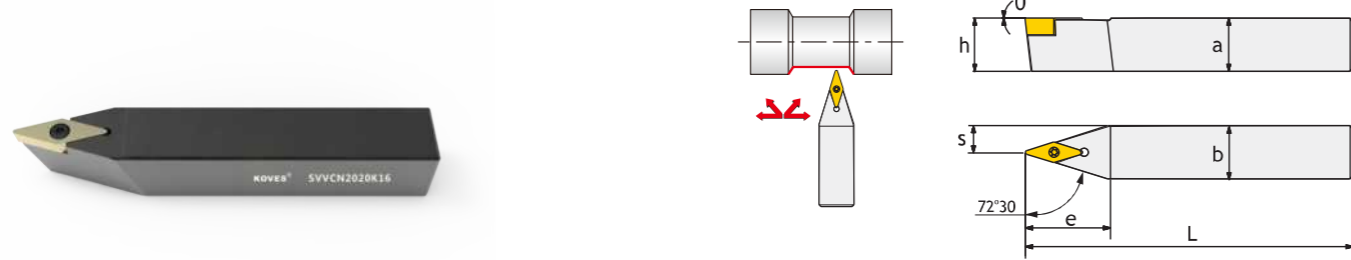


型号 Model	库存 Stock	尺寸 Size (mm)							刀片 Insert	螺钉 Screw	扳手 Hex wrench
		a	b	L	h	s	e				
SVVBN1212F11	○	12	12	80	12	6	22	VB..T1103..	L60M2.5×5	T08	
SVVBN1616H11	○	16	16	100	16	8	27				
SVVBN2020K11	○	20	20	125	20	10	30				
SVVBN1616H16	○	16	16	100	16	8	33	VB..T1604..	L60M4×8	T15	
SVVBN2020K16	○	20	20	125	20	10	33				
SVVBN2525M16	○	25	25	150	25	12.5	38				
SVVBN3225P16	○	32	25	170	32	12.5	38				
SVVBN3232P16	○	32	32	170	32	16	38				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

72° 30' SVVCN

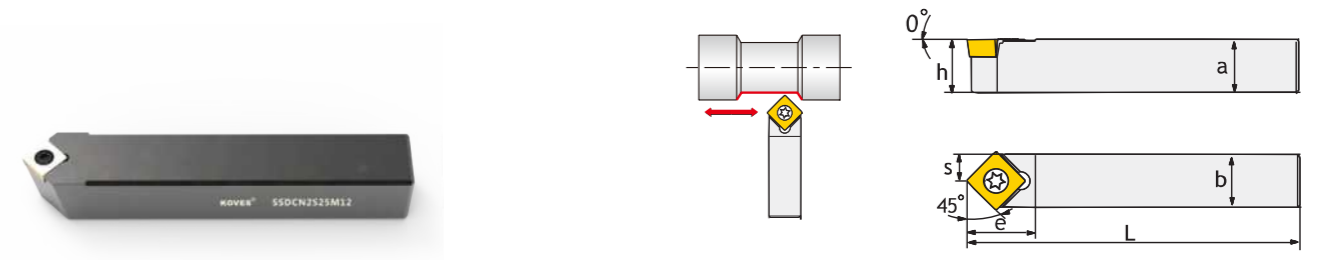


型号 Model	库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
	R	L	a	b	L	h	s	e			
SVVCN1212F11	○	○	12	12	80	12	6	22	VC..T1103..	L60M2.5×5	T08
SVVCN1616H11	○	○	16	16	100	16	8	27			
SVVCN2020K11	○	○	20	20	125	20	10	30			
SVVCN1616H16	○	○	16	16	100	16	8	33	VC..T1604..	L60M4×8	T15
SVVCN2020K16	○	○	20	20	125	20	10	33			
SVVCN2525K16	○	○	25	25	150	25	12.5	38			
SVVCN3225P16	○	○	32	25	170	32	12.5	38			
SVVCN3232P16	○	○	32	32	170	32	16	38			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° SSDCN

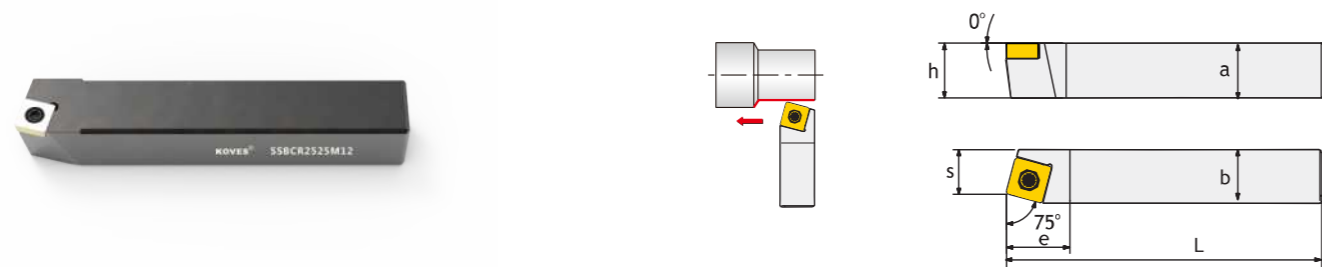


型号 Model	库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
	R	L	a	b	L	h	s	e			
SSDCN1212F09	○	○	12	12	80	12	6	16	SC..T09T3..	L60M4×8	T15
SSDCN1616H09	○	○	16	16	100	16	8	16			
SSDCN2020K09	○	○	20	20	125	20	10	16			
SSDCN2525M09	○	○	25	25	150	25	12.5	25	SC..T1204..	L60M5×12	T20
SSDCN2020K12	○	○	20	20	125	20	10	25			
SSDCN2525M12	○	○	25	25	150	25	12.5	25			
SSDCN3232P12	○	○	32	32	170	32	16	25			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° SSBCL/L



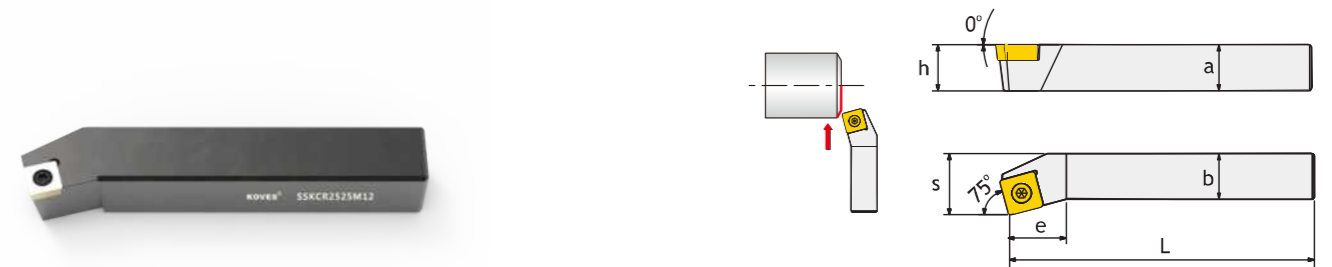
右手刀图例
Legend of right hand knife

型号 Model	库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
	右刀 Right hand	左刀 Left hand	a	b	L	h	s	e			
SSBCL1212F09	○	○	12	12	80	12	11	14	SC..T09T3..	I60M4×8	T15
SSBCL1616H09	○	○	16	16	100	16	13	16			
SSBCL2020K12	○	○	20	20	125	20	17	25			
SSBCL2525M12	○	○	25	25	150	25	22	25	SC..T1204..	I60M5×12	T20
SSBCL3232P12	○	○	32	32	170	32	27	28			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° SSKCL/L



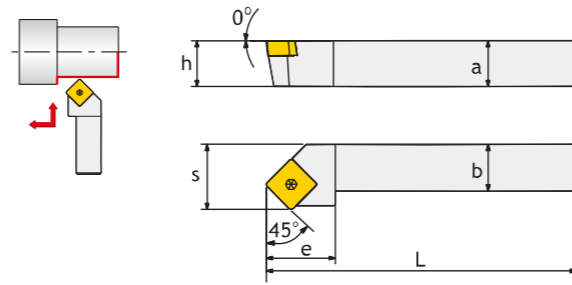
右手刀图例
Legend of right hand knife

型号 Model	库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
	右刀 Right hand	左刀 Left hand	a	b	L	h	s	e			
SSKCL1616H09	○	○	16	16	100	16	20	13	SC..T09T3..	I60M4×8	T15
SSKCL2020K09	○	○	20	20	125	20	25	18			
SSKCL2020K12	○	○	20	20	125	20	25	18			
SSKCL2525M12	○	○	25	25	150	25	32	22	SC..T1204..	I60M5×12	T20
SSKCL3232P12	○	○	32	32	170	32	40	27			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

45° SSSCR/L



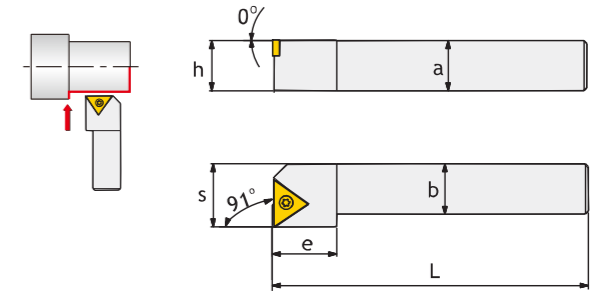
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SSSCR1616H09	SSSCL1616H09	○	○	16	16	100	16	20	16	SC..T09T3..	I60M4×8	T15
SSSCR2020K09	SSSCL2020K09	○	○	20	20	125	20	25	20	SC..T1204..	I60M5×12	T20
SSSCR2020K12	SSSCL2020K12	○	○	20	20	125	20	25	23			
SSSCR2525M12	SSSCL2525M12	○	○	25	25	150	25	32	25			
SSSCR3232P12	SSSCL3232P12	○	○	32	32	170	32	38	28			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

91° STFCR/L



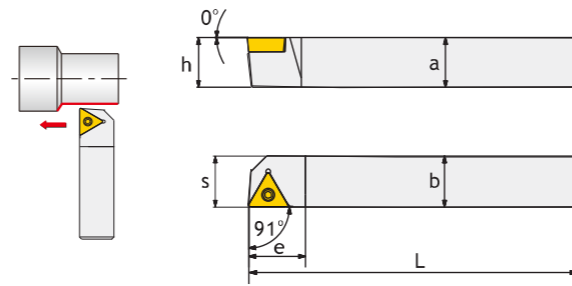
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
STFCR1212F11	STFCL1212F11	○	○	12	12	80	12	14	14	TC..T1102..	I60M42.5×5	T08
STFCR1616H11	STFCL1616H11	○	○	16	16	100	16	18	16			
STFCR2020K11	STFCL2020K11	○	○	20	20	125	20	22	16	TC..T16T3..	I60M4×8	T15
STFCR1616H16	STFCL1616H16	○	○	16	16	100	16	18	19			
STFCR2020K16	STFCL2020K16	○	○	20	20	125	20	22	19			
STFCR2525M16	STFCL2525M16	○	○	25	25	150	25	27	24			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

91° STACR/L



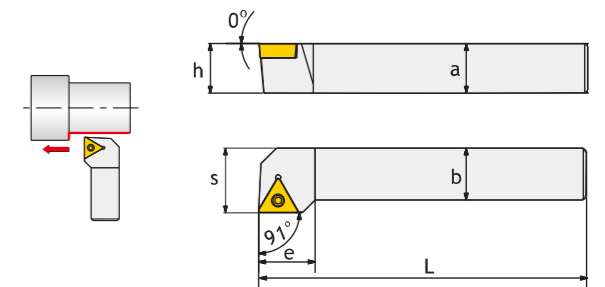
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
STACR1212F11	STACL1212F11	○	○	12	12	80	12	12.5	14	TC..T1102..	I60M2.5×5	T08

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

91° STGCR/L



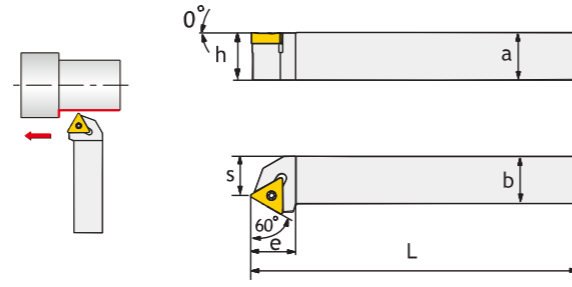
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
STGCR0808D09	STGCL0808D09	○	○	08	08	60	8	10	11	TC..T0902..	I60M2.2×5	T06
STGCR1010E09	STGCL1010E09	○	○	10	10	70	10	11	11			
STGCR1212F11	STGCL1212F11	○	○	12	12	80	12	14	14	TC..T1102..	I60M2.5×5	T08
STGCR1616H11	STGCL1616H11	○	○	16	16	100	16	17	16			
STGCR2020K16	STGCL2020K16	○	○	20	20	125	20	22	21	TC..T16T3..	I60M4×8	T15
STGCR2525M16	STGCL2525M16	○	○	25	25	150	25	27	21			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

60° STTCR/L



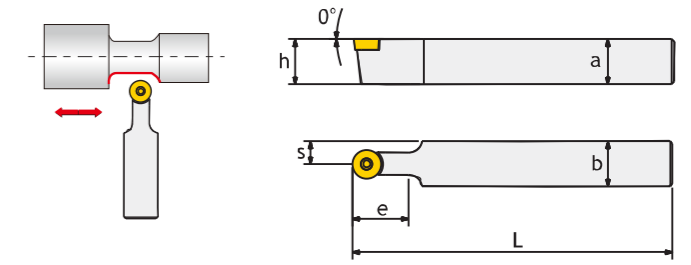
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
STTCR1616H11	STTCL1616H11	○	○	16	16	100	16	13	14	TC..T1102..	I60M42. 5×5	T08
STTCR1616H16	STTCL1616H16	○	○	16	16	100	16	13	19	TC..T16T3..	I60M4×8	T15
STTCR2020K16	STTCL2020K16	○	○	20	20	125	20	17	19			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

0° SRDCN

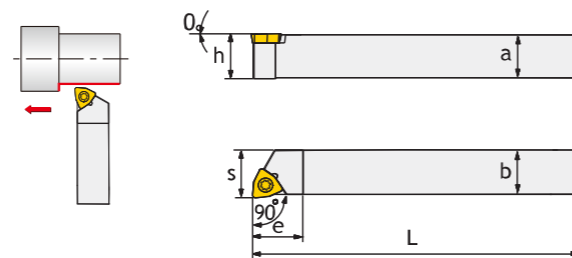


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	刀垫螺钉 Screw	扳手 Wrench	刀片螺钉 Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e						
SRDCN2020K06		○		20	20	125	20	10	11	RC..T0602..	-	-	T08	L60M2.5×5	-
SRDCN2525M06		○		25	25	150	25	12.5	11						
SRDCN2020K08		○		20	20	125	20	10	16	RC..T0803..	-	-	T09	L60M3×7	-
SRDCN2525M08		○		25	25	150	25	12.5	16						
SRDCN2020K10		○		20	20	125	20	10	25	RC..T10T3..	-	-	T15	L60M3.5×10	-
SRDCN2525M10		○		25	25	150	25	12.5	25						
SRDCN2020K12		○		20	20	125	20	10	35						
SRDCN2525M12		○		25	25	150	25	12.5	35	RC..T1204..	-	-	T15	L60M3.5×12	-
SRDCN3225P12		○		32	25	170	32	16	35						
SRDCN2525M16		○		25	25	150	25	12.5	35	RC..T1606..	R16BS	SM0614	T20	L60M4×16	S4
SRDCN3232P16		○		32	32	170	32	16	40						
SRDCN3232P20		○		32	32	170	32	16	40						
SRDCN4040S20		○		40	40	250	40	20	40	RC..TRCMX2006	R10BS	SM0814	T20	L60M5×16-8.1	S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° SWACR/L



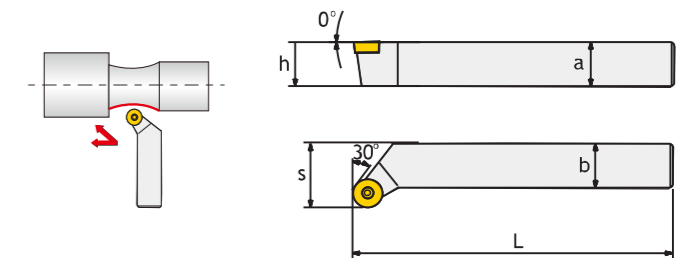
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s	e			
SWACR1010E04	SWACL1010E04	○	○	10	10	70	10	10.5	10	WC..X0402..	I60M2. 2×5	T08
SWACR1212F04	SWACL1212F04	○	○	12	12	80	12	12.5	14			
SWACR1616H06	SWACL1616H06	○	○	16	16	100	16	16.5	20	WC..X06T3..	I60M3×7	T09
SWACR2020K08	SWACL2020K08	○	○	20	20	125	20	20.5	24	WC..X0804..	I60M4×8	T15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

SRGCR/L



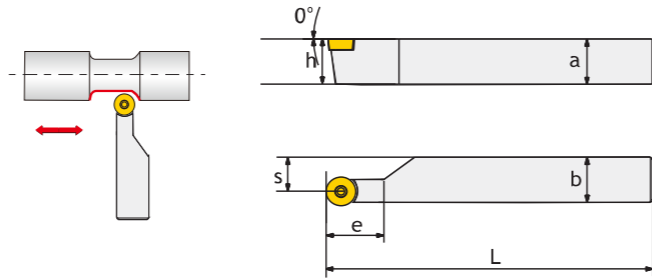
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	刀垫螺钉 Screw	扳手 Wrench	刀片螺钉 Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s							
SRGCR2020K10	SRGCL2020K10	○	○	20	20	125	20	25	RC..T10T3..	-	-	T15	L60M3.5×10	-	
SRGCR2525M10	SRGCL2525M10	○	○	25	25	150	25	32							
SRGCR2020K12	SRGCL2020K12	○	○	20	20	125	20	27							
SRGCR2525M12	SRGCL2525M12	○	○	25	25	150	25	32	RC..T1204..	-	-	T15	L60M3.5×12	-	
SRGCR3232P12	SRGCL3232P12	○	○	32	32	170	32	32							
SRGCR2525M16	SRGCL2525M16	○	○	25	25	150	25	32	RC..T1606..	R16BS	SM0614	T20	L60M4×16	S4	
SRGCR3232P16	SRGCL3232P16	○	○	32	32	170	32	40							
SRGCR3232P20	SRGCL3232P20	○	○	32	32	170	32	40							
SRGCR4040S20	SRGCL4040S20	○	○	40	40	250	40	48	RCMX2006	R20BS	SM0814	T20	L60M5×16-8.1	S5	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

SRACR/L

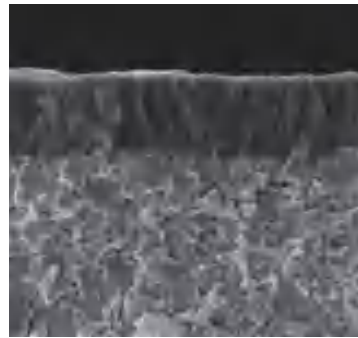


右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)										
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	e	刀片 Insert	刀垫 Shim	刀垫螺钉 Screw	扳手 Wrench	刀片螺钉 Screw	扳手 Wrench
SRACR2020K06	SRACL2020K06	○	○	20	20	125	20	15	RC..T0602..	-	-	T08	L60M2.5×5	-
SRACR2525M06	SRACL2525M06	○	○	25	25	150	25	23						
SRACR2020K08	SRACL2020K08	○	○	20	20	125	20	18	RC..T0803..	-	-	T09	L60M3×7	-
SRACR2525M08	SRACL2525M08	○	○	25	25	150	25	33						
SRACR2020K10	SRACL2020K10	○	○	20	20	125	20	20	RC..T10T3..	-	-	T15	L60M3.5×10	-
SRACR2525M10	SRACL2525M10	○	○	25	25	150	25	25						
SRACR2020K12	SRACL2020K12	○	○	20	20	125	20	28						
SRACR2525M12	SRACL2525M12	○	○	25	25	150	25	28	RC..T1204..	-	-	T15	L60M3.5×12	-
SRACR3225P12	SRACL3225P12	○	○	32	25	170	32	28						
SRACR2525M16	SRACL2525M16	○	○	25	25	150	25	35						
SRACR3232P16	SRACL3232P16	○	○	32	32	170	32	40	RC..T1606..	R16BS	SM0614	T15	L60M4×16	S4
SRACR3232P20	SRACL3232P20	○	○	32	32	170	32	40						
SRACR4040S20	SRACL4040S20	○	○	40	40	250	40	55	RCMX2006	R20BS	SM0814	T20	L60M5×16-8.1	S5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



小型车床用 Small lathe 刀具 The cutting tool

www.pcbn.com

小型车床用 Small lathe 刀具 The cutting tool F03~F34

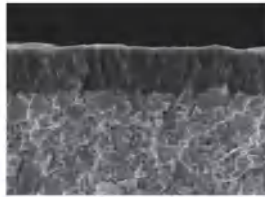


KER/L.. 前车刀杆..... <small>Before the tool bar</small>	F03	镗孔 Boring	F17
KBR/L.. 后车刀杆..... <small>After the tool bar</small>	F03	PSBFR 内孔镗刀..... <small>Inner hole boring cutter</small>	F17
ER/L15.. 通用外圆前车刀片..... <small>General purpose outer round front car blade</small>	F04	PSBPR 内孔镗刀..... <small>Inner hole boring cutter</small>	F18
EN15.. 前车仿形刀片..... <small>Front car copy blade</small>	F04	PSBTR 内孔镗刀..... <small>Inner hole boring cutter</small>	F19
EGR/L15.. 前车切槽刀片..... <small>Front car slotting blade</small>	F05	仿形PSBQR 内孔防形镗刀..... <small>Copying Anti-shape boring tool for inner hole</small>	F20
EGR/L15..C 前车仿形切槽刀片..... <small>Front car profile cutting blade</small>	F05	PSBUR 内孔端面镗孔..... <small>Face boring of inner hole</small>	F21
BR/L15.. 通用后车外圆刀片..... <small>General purpose rear car outside round blade</small>	F06	PSBDR 内孔镗 倒角 切槽..... <small>Bore the inner hole, chamfered and slotted</small>	F22
BGR/L15.. 后车切槽刀片..... <small>Rear car slotting blade</small>	F06	2PSBTR 双头内孔镗刀..... <small>Double head boring tool for inner hole</small>	F23
BPR/L15.. 后车切断刀片..... <small>Cutting blade after car</small>	F07	内螺纹 Threading	F24
BTR/L15.. 后车通用螺纹刀片..... <small>General purpose thread blade for rear car</small>	F07	PSTIR 内孔牙刀..... <small>Inner hole tooth knife</small>	F24
KHR/L刀杆..... <small>Tool rod</small>	F09	PSTIR 梯形牙刀30°..... <small>Trapezoidal tooth knife 30°</small>	F25
KHR/L...F前扫 加工用刀片..... <small>Blade for front sweep</small>	F10	切槽PSBWR 内孔槽刀..... <small>grooving Inner hole slot knife</small>	F26
KHR/L...B后扫 加工用刀片..... <small>Blade for rear sweep processing</small>	F10	端面槽 Transverse groove	F27
KHR/L...C切断 加工用刀片..... <small>Cutting blade for machining</small>	F11	PSMFR 右端面槽刀..... <small>Right end groove knife</small>	F27
KHR/L...G槽刀 加工用刀片..... <small>A blade for slotting</small>	F12	PSMFL 右端面槽刀..... <small>Right end groove knife</small>	F28
KTPR.. 通用刀杆..... <small>General tool rod</small>	F13	PSMVR 深端面槽刀..... <small>Deep end face groove cutter</small>	F29
KTPR.. FA 切断加工..... <small>Cutting processing</small>	F14	切槽PSBKR 内孔圆槽刀..... <small>grooving Inner hole round groove knife</small>	F30
KTPR.. FN 切槽加工..... <small>Cutting processing</small>	F14	镗孔PSBXR 内孔勾刀..... <small>Boring Inner hole hook knife</small>	F31
KTPR.. FB 后扫加工..... <small>After sweeping the processing</small>	F15	镗孔 PSBCR 内孔镗及倒角..... <small>Boring Bore and chamfer of inner hole</small>	F32
KTPR.. FT 螺纹加工..... <small>The screw thread processing</small>	F15	推荐切削条件表 Recommended Cutting Conditions	F33
整体合金小径内孔车刀一览表..... <small>List of integral alloy small diameter inner hole turning tools</small>	F16	刀套 PSL 刀套..... <small>Sleeve Sleeve</small>	F34

车削刀片材质简介 Turning Insert Grades

PVD涂层硬质合金系列 PVD coating carbide inserts

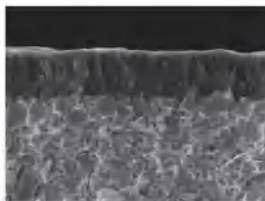
KTX 适用类型: 精, 半精加工
Cutting Range: Finishing and Semi-finishing



高硬度的硬质合金基体, 具有较好的高温红硬性, 匹配通用性良好的 TiCN PVD 涂层, 推荐用于钢件材质的车削

With highly hard substrate, favorable red hardness and .Use TiCN PVD coating with excellent versatility
Application: Suitable for steel cutting

KVX 适用类型: 精, 半精加工
Cutting Range: Finishing and Semi-finishing



高硬度的硬质合金基体, 具有较好的高温红硬性, 匹配通用性的PVD复合涂层, 推荐用于不锈钢和钢件材质的车削

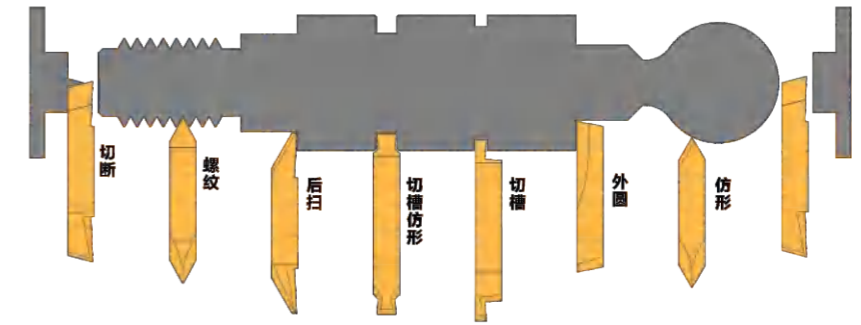
With highly hard substrate, favorable red hardness and excellent versatility
Application: Suitable for stainless steel and steel cutting

小零件加工刀片 Small Part Cutting Inserts

材质符号 Workpiece Material	P 钢 Steel					M 不锈钢 Stainless steel					K 铸铁 Cast Iron				N 有色金属 Nonferrous			S 耐热合金 NRSA				H 高硬材料 Hardness		
	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	N10	N20	N30	S01	S10	S20	S30	H01	H10	H20
PVD 涂层硬质合金 PVD Coated Carbide	KTX					KVX					KVX							KVX						
硬质合金 Uncoated Carbide															KW20									

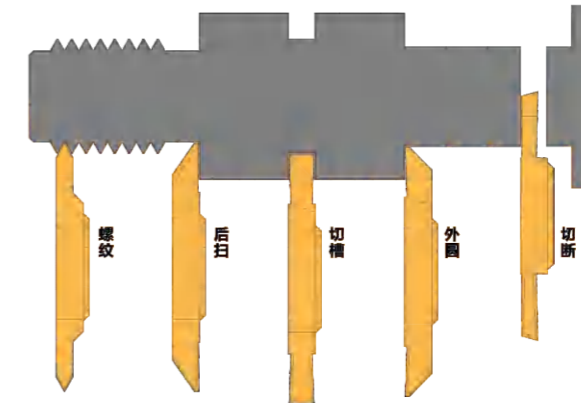
KER系列 (F03-F08)

KER Series (F03-F08)



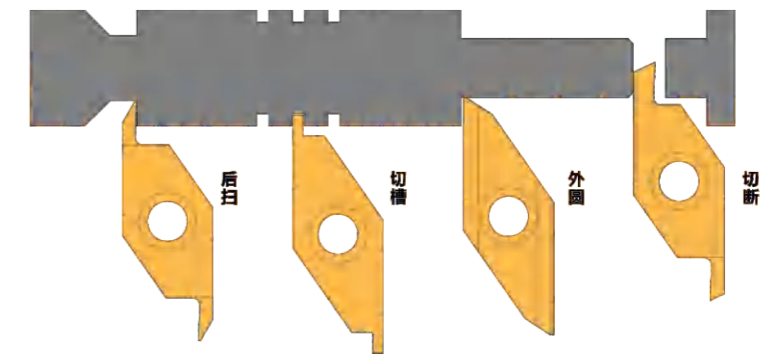
KHR系列 (F09-F12)

KHR Series (F09-F12)



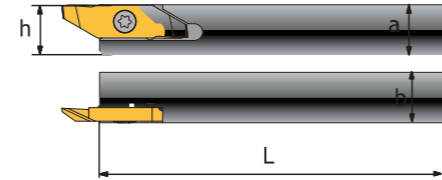
CSV系列 (F13-F15)

CSV Series (F13-F15)



前车刀杆 Front Turning Holders

KER/L..



右手刀图例
Legend of right hand knife

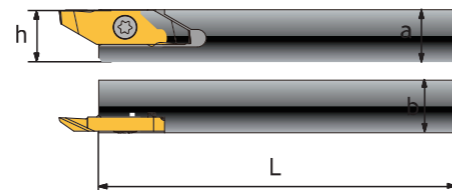
型号 Model		库存 Stock		尺寸 Size (mm)				刀片 Insert	螺丝 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h			
KER1010D15	KEL1010D15	●	●	10	10	60	10	ER/L15.. EN15.. EGR/L15..	L60M3×7	T8
KER1010K15	KEL1010K15	●	●	10	10	125	10			
KER1212D15	KEL1212D15	●	●	12	12	60	12			
KER1212K15	KEL1212K15	●	●	12	12	125	12			
KER1616D15	KEL1616D15	●	●	16	16	60	16			
KER1616K15	KEL1616K15	●	●	16	16	125	16			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

后车刀杆 Back Turning Holders

KBR/L..



右手刀图例
Legend of right hand knife

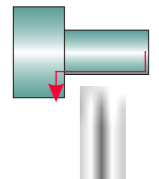
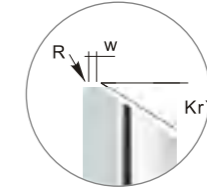
型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	螺丝 Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	a	b	L	h	s			
KBR1010D15	KBL1010D15	●	●	10	10	60	10	10	BR/L15.. BPR/L15.. BGR/L15.. BVR/L15..	L60M3×7	T8
KBR1010K15	KBL1010K15	●	●	10	10	125	10	10			
KBR1212D15	KBL1212D15	●	●	12	12	60	12	12			
KBR1212K15	KBL1212K15	●	●	12	12	125	12	12			
KBR1616D15	KBL1616D15	●	●	16	16	60	16	16			
KBR1616K15	KBL1616K15	●	●	16	16	125	16	16			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

通用外圆前车刀片 General External Turning Inserts

ER/L15..



W: 带修光刃 W: Wispered edge

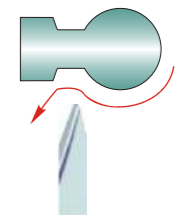
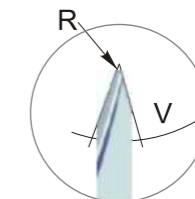
刀片外形 Insert shape	型号 Model	L	Kr	R	w	尺寸与材质 Size and Grades		
						KTX	KVX	KW20
	ER/L151200	15	12	0		●	●	●
	ER/L151205	15	12	0.05		●	●	●
	ER/L151210	15	12	0.10		●	●	●
	ER/L151220	15	12	0.20		●	●	●
	ER/L153310W	15	33	0.10	0.3			
	ER/L153320W	15	33	0.20	0.3			
	ER/L156010	15	60	0.10				
	ER/L156020	15	60	0.20				
钢 Steel						★	☆	
不锈钢 Stainless Steel								★
铸铁 Cast Iron						☆		
有色金属 Nonferrous Metal						☆		★
耐热合金 Heat Resistant Alloy							★	
淬硬钢 Hardened Steel								

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

前车仿形刀片 External Copy Turning Inserts

EN15..



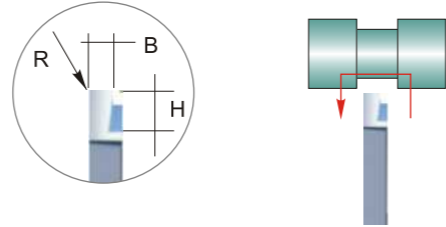
刀片外形 Insert shape	型号 Model	L	V	R	w	尺寸与材质 Size and Grades		
						KTX	KVX	KW20
	EN156010	15	60	0.10		●	●	●
	EN156020	15	60	0.20		●	●	●
钢 Steel						★	☆	
不锈钢 Stainless Steel								★
铸铁 Cast Iron						☆		
有色金属 Nonferrous Metal						☆		★
耐热合金 Heat Resistant Alloy							★	
淬硬钢 Hardened Steel								

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

前车切槽刀片 External Grooving Inserts

EGR/L15..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades								
		L	B	H				KTX	KVX	KW20
	EGR/L1508005	15	0.5	0.8				●	●	●
	EGR/L1512075	15	0.75	1.2				●	●	●
	EGR/L1516100	15	1.0	1.6				●	●	●
	EGR/L1523150	15	1.5	2.3				●	●	●
	EGR/L1516100	15	1.0	1.6				●	●	●
	EGR/L1523150	15	1.5	2.3				●	●	●
钢 Steel								★	☆	
不锈钢 Stainless Steel									★	
铸铁 Cast Iron								☆		
有色金属 Nonferrous Metal								☆		★
耐热合金 Heat Resistant Alloy									★	
淬硬钢 Hardened Steel										

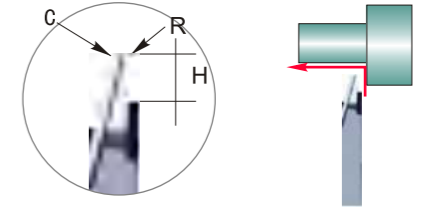
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

通用后车外圆刀片 General External Back Turning Inserts

BR/L15..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		L	H	R	C				KTX	KVX	KW20
	BR/L154000	15	4	0					●	●	●
	BR/L154005	15	4	0.05					●	●	●
	BR/L154010	15	4	0.1					●	●	●
	BR/L154020	15	4	0.2					●	●	●
	BR/L154010C	15	4	0.1	●				●	●	●
	BR/L154020C	15	4	0.2	●				●	●	●
钢 Steel									★	☆	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron									☆		
有色金属 Nonferrous Metal									☆		★
耐热合金 Heat Resistant Alloy										★	
淬硬钢 Hardened Steel											

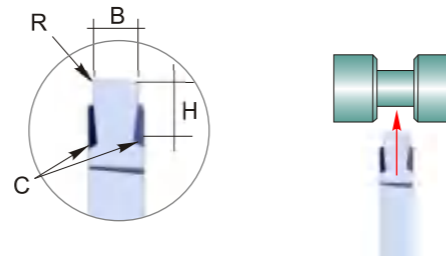
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

前车仿形切槽刀片 External Copy Grooving Inserts

EGR/L15..C



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades											
		L	B	H	R	C				KTX	KVX	KW20	
	EGR/L152H050C	15	0.50	1.00	0.01	45				●	●	●	
	EGR/L152H076C	15	0.76	1.00	0.01	45				●	●	●	
	EGR/L153H076C	15	0.76	1.50	0.01	45				●	●	●	
	EGR/L151H050C	15	0.80	0.50	0.01	45				●	●	●	
	EGR/L152H080C	15	0.80	1.00	0.01	45				●	●	●	
	EGR/L153H080C	15	0.80	1.50	0.01	45				●	●	●	
	EGR/L152H096C	15	0.96	1.00	0.01	45				●	●	●	
	EGR/L153H096C	15	0.96	1.50	0.01	45				●	●	●	
	EGR/L152H106C	15	1.06	1.00	0.01	45				●	●	●	
	EGR/L153H106C	15	1.06	1.50	0.01	45				●	●	●	
	钢 Steel										★	☆	
	不锈钢 Stainless Steel											★	
铸铁 Cast Iron										☆			
有色金属 Nonferrous Metal										☆		★	
耐热合金 Heat Resistant Alloy											★		
淬硬钢 Hardened Steel													

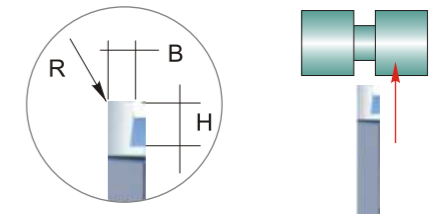
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

后车切槽刀片 Back Grooving Inserts

BGR/L15..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades										
		L	B	H	R				KTX	KVX	KW20	
	BGR/L151005	15	0.5	1.0					●	●	●	
	BGR/L151206	15	0.6	1.2					●	●	●	
	BGR/L151608	15	0.8	1.6					●	●	●	
	BGR/L152010	15	1.0	2.0					●	●	●	
	BGR/L153015	15	1.5	3.0					●	●	●	
钢 Steel										★	☆	
不锈钢 Stainless Steel											★	
铸铁 Cast Iron										☆		
有色金属 Nonferrous Metal										☆		★
耐热合金 Heat Resistant Alloy											★	
淬硬钢 Hardened Steel												

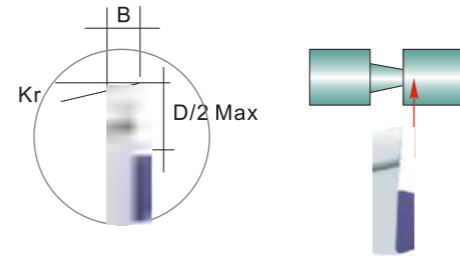
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

后车切断刀片 Parting Inserts

BPR/L15..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades				KTX	KVX	KW20
		L	B	Dmax				
	BPR/L150505	15	0.5	5		●	●	●
	BPR/L151010	15	1.0	8		●	●	●
	BPR/L151215	15	1.5	12		●	●	●
	BPR/L151220	15	2.0	12		●	●	●
钢 Steel						★	☆	
不锈钢 Stainless Steel							★	
铸铁 Cast Iron						☆		
有色金属 Nonferrous Metal						☆		★
耐热合金 Heat Resistant Alloy							★	
淬硬钢 Hardened Steel								

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

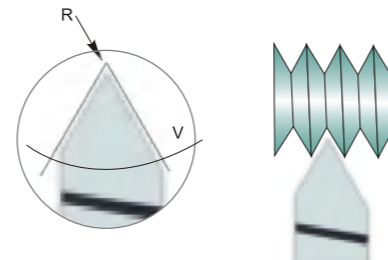
○ 订单生产 order production

推荐切削条件表 Recommended Cutting Conditions

Material 被加工材料	车削 Turning		切断切槽 Parting off	
	VC (m/min)	Feed (mm/rev)	VC (m/min)	Feed (mm/rev)
Free-cutting steel 易削铁	120-200	0.01-0.25	80-150	0.01-0.15
Low alloyed steel 低合金钢	80-160	0.01-0.25	60-120	0.01-0.12
High alloyed steel 高合金钢	50-120	0.01-0.15	40-100	0.01-0.10
Stainless steel 不锈钢	60-120	0.01-0.15	60-100	0.01-0.08
Aluminium 铝合金	180-1000	0.01-0.40	150-400	0.01-0.20
Titanium 钛合金	30-70	0.01-0.15	30-50	0.01-0.06
Copper 铜	100-500	0.01-0.35	100-300	0.01-0.20

后车通用螺纹刀片 Threading Inserts

BTR/L15..



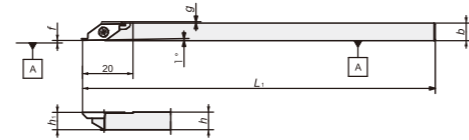
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades				KTX	KVX	KW20
		L	V	P	R			
	BTR/L1555P05	15	55	0.5	0.03	●	●	●
	BTR/L1560P025	15	60	0.25	0.02	●	●	●
	BTR/L1560P05	15	60	0.5	0.03	●	●	●
	BTR/L1560P08	15	60	0.8	0.05	●	●	●
钢 Steel						★	☆	
不锈钢 Stainless Steel							★	
铸铁 Cast Iron						☆		
有色金属 Nonferrous Metal						☆		★
耐热合金 Heat Resistant Alloy							★	
淬硬钢 Hardened Steel								

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

KHR/L刀杆 Turning Holders

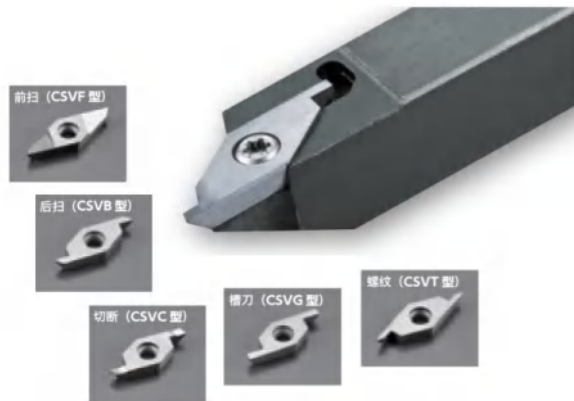


型号 Model	库存 Stock	尺寸 Size (mm)						刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
		R	L	h	b	L	h1				g
右刀 Right hand										
左刀 Left hand										
KHR07	○ ○			7	7	140	7	0.5	KHR/L..F (前扫) KHR/L..B (后扫) KHR/L..G (槽刀) KHR/L..C (切断)	M2.5*7 T15
KHR08	○ ○			8	8	140	8	0		
KHR095	○ ○			9.5	9.5	140	9.5	0		
KHR10	○ ○			10	10	140	10	0		
KHR12	○ ○			12	12	140	12	0		
	○ ○			12	12	140	12	0		

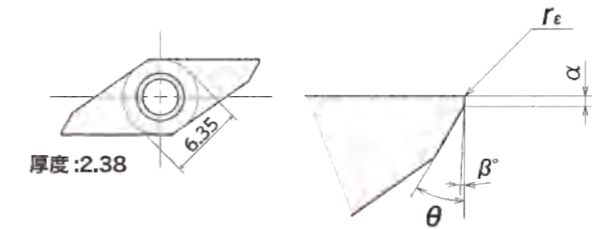
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

CSV系列 重视精度的研磨级产品



CSVF前扫 加工用刀片 Blade for CSVF foresweep processing

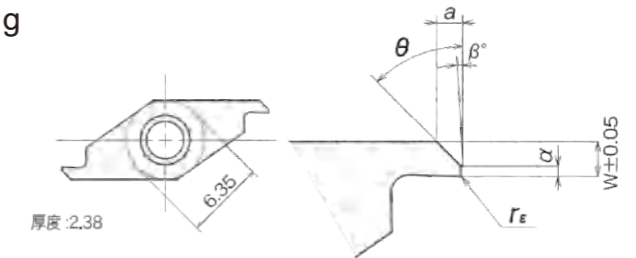


刀片外形 Insert shape	型号 Model	库存 Stock	排屑槽 Chip removal tank	尺寸与材质 Size and Grades						
				α	β	θ	r _e	KTX	KVX	KW20
	CSVF 11FR/L V	○	无	0.30	5°	30°	0.0	●	●	●
	11FR/L V-A	○	无	0.30	2°	30°	0.0	●	●	●
	11FR/L V-M	○	无	0.15	2°	30°	0.0	●	●	●
	11FR/L V-C	○	无	0.15	5°	30°	0.0	●	●	●
	11FR/L V-B	○	有	0.30	5°	30°	0.0	●	●	●
	11FR/L VB-A	○	有	0.30	2°	30°	0.0	●	●	●
	11FR/L VB-M	○	有	0.15	2°	30°	0.0	●	●	●
	11FR/L VB-C	○	有	0.15	5°	30°	0.0	●	●	●
	11FR/L VB-B	○	有	0.30	5°	30°	0.0	●	●	●
带排屑槽 with chip removal tank								★	☆	
不锈钢 Stainless Steel									★	
铸铁 Cast Iron								☆		
有色金属 Nonferrous Metal								☆		★
耐热合金 Heat Resistant Alloy									★	
淬硬钢 Hardened Steel										

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

CSVB后扫 加工用刀片 Blades for CSVB aftersweep processing

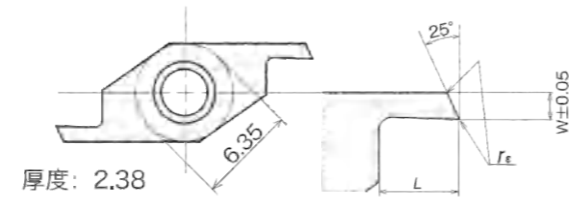


刀片外形 Insert shape	型号 Model	库存 Stock	排屑槽 Chip removal tank	刀片宽度 W	尺寸与材质 Size and Grades								
					α	β	θ	r _e	有效切削长度 a	加工深度 W	KTX	KVX	KW20
	CSVB 11FR/L V	○	无	1.00	0.30	5°	45°	0.0	0.7	2.0	●	●	●
	11FR/L V-A	○	无	1.00	0.30	2°	45°	0.0	0.7	2.0	●	●	●
	11FR/L V-M	○	无	1.00	0.15	2°	45°	0.0	0.7	2.0	●	●	●
	11FR/L V-C	○	无	1.00	0.15	5°	45°	0.0	0.7	2.0	●	●	●
	11FR/L V-12	○	无	1.20	0.30	5°	45°	0.0	0.8	2.0	●	●	●
	11FR/L V-14	○	无	1.40	0.30	5°	45°	0.0	1.0	2.0	●	●	●
	CSVB 11FR/L VB	○	有	1.00	0.30	5°	45°	0.0	0.7	2.0	●	●	●
	11FR/L VB-A	○	有	1.00	0.30	2°	45°	0.0	0.7	2.0	●	●	●
	11FR/L VB-M	○	有	1.00	0.15	2°	45°	0.0	0.7	2.0	●	●	●
	11FR/L VB-C	○	有	1.00	0.15	5°	45°	0.0	0.7	2.0	●	●	●
	11FR/L VB-12	○	有	1.20	0.30	5°	45°	0.0	0.8	2.0	●	●	●
	11FR/L VB-14	○	有	1.40	0.30	5°	45°	0.0	1.0	2.0	●	●	●
钢 Steel											★	☆	
不锈钢 Stainless Steel												★	
铸铁 Cast Iron											☆		
有色金属 Nonferrous Metal											☆		
耐热合金 Heat Resistant Alloy												★	
淬硬钢 Hardened Steel													

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

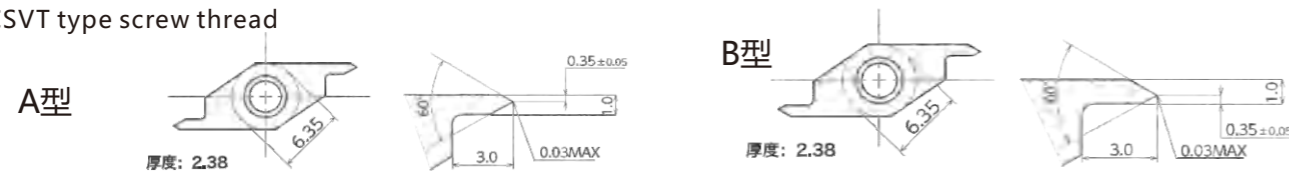
CSV C型切刀 CSV C type cut off



刀片外形 Insert shape	型号 Model	库存 Stock	排屑槽 Chip removal tank	尺寸与材质 Size and Grades					
				最大切 断直径 ØD	W	rE	KTX	KVX	KW20
	CSV C 11FRL V06	○	无	3.0	0.6	0.0	●	●	●
	11FRL V07	○	无	4.0	0.7	0.0	●	●	●
	11FRL V08	○	无	4.0	0.8	0.0	●	●	●
	11FRL V09	○	无	4.0	0.9	0.0	●	●	●
	11FRL V10	○	无	5.0	1.0	0.0	●	●	●
	11FRL V13	○	无	5.0	1.3	0.0	●	●	●
	CSV C 11FRL VB06	○	有	3.0	0.6	0.0	●	●	●
	11FRL VB07	○	有	4.0	0.7	0.0	●	●	●
	11FRL VB09	○	有	4.0	0.8	0.0	●	●	●
	11FRL VB10	○	有	5.0	1.0	0.0	●	●	●
	11FRL VB13	○	有	5.0	1.3	0.0	●	●	●
	11FRL VB15	○	有	5.0	1.5	0.0	●	●	●
钢 Steel							★	☆	
不锈钢 Stainless Steel								★	
铸铁 Cast Iron							☆		
有色金属 Nonferrous Metal							☆		★
耐热合金 Heat Resistant Alloy								★	
淬硬钢 Hardened Steel								★	

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

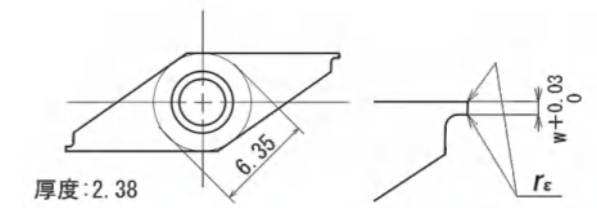
CSV T型螺纹 CSV T type screw thread



刀片外形 Insert shape	型号 Model	库存 Stock	排屑槽 Chip removal tank	尺寸与材质 Size and Grades				
				螺距 (mm)	牙/英寸 (TPI)	KTX	KVX	KW20
A型	CSV T 11FRL P60-035A	○	无	0.2~0.5	127-51	●	●	●
B型	11FRL P60-035B	○	无	0.2~0.5	127-51	●	●	●
钢 Steel						★	☆	
不锈钢 Stainless Steel							★	
铸铁 Cast Iron						☆		
有色金属 Nonferrous Metal						☆		★
耐热合金 Heat Resistant Alloy							★	
淬硬钢 Hardened Steel							★	

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

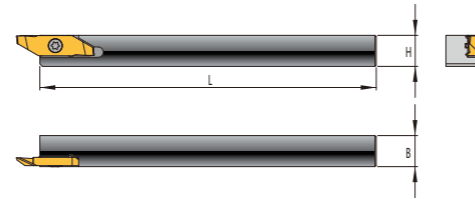
CSV G型槽刀 Fuller dao CSV G type



刀片外形 Insert shape	型号 Model	库存 Stock	排屑槽 Chip removal tank	尺寸与材质 Size and Grades					
				W	有效加工深度	rE	KTX	KVX	KW20
	CSV G 11FRL V025	○	无	0.25	0.15	0.0	●	●	●
	11FRL V030	○	无	0.30	0.15	0.0	●	●	●
	11FRL V035	○	无	0.35	0.15	0.0	●	●	●
	11FRL V040	○	无	0.40	0.15	0.0	●	●	●
	11FRL V045	○	无	0.45	0.45	0.0	●	●	●
	11FRL V050	○	无	0.50	0.45	0.0	●	●	●
	11FRL V055	○	无	0.55	0.45	0.0	●	●	●
	11FRL V060	○	无	0.60	0.45	0.0	●	●	●
	11FRL V065	○	无	0.65	0.45	0.0	●	●	●
	11FRL V070	○	无	0.70	0.45	0.0	●	●	●
	11FRL V075	○	无	0.75	1.40	0.0	●	●	●
	11FRL V080	○	无	0.80	1.40	0.0	●	●	●
	11FRL V085	○	无	0.85	1.40	0.0	●	●	●
	11FRL V090	○	无	0.90	1.40	0.0	●	●	●
	11FRL V095	○	无	0.95	1.40	0.0	●	●	●
	11FRL V100	○	无	1.00	1.40	0.0	●	●	●
	11FRL V110	○	无	1.10	2.60	0.0	●	●	●
	11FRL V120	○	无	1.20	2.60	0.0	●	●	●
	11FRL V130	○	无	1.30	2.60	0.0	●	●	●
	11FRL V140	○	无	1.40	2.60	0.0	●	●	●
11FRL V150	○	无	1.50	2.60	0.0	●	●	●	
钢 Steel							★	☆	
不锈钢 Stainless Steel								★	
铸铁 Cast Iron							☆		
有色金属 Nonferrous Metal							☆		★
耐热合金 Heat Resistant Alloy								★	
淬硬钢 Hardened Steel								★	

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

KTPR.. 通用刀杆 Turning Holders



Art.N°		型号 Model	库存 Stock		尺寸 Size (mm)			刀片 Insert
右刀 Right hand	左刀 Left hand		R	L	H	B	L	
		KTPR-0808-115	○		8	8	15	KTPL/R...
		KTPR-1010-115	○		10	10	115	KTPL/R...
		KTPR-1212-130	○		12	12	130	KTPL/R...
		KTPR-1212-90	○		12	12	90	KTPL/R...
		KTPR-1313-130	○		13	13	130	KTPL/R...
		HDXR-1616-130	○		16	16	130	KTPL/R...
		HDXR-1616-75	○		16	16	75	KTPL/R...
		HDXR-2020-12	○		20	20	120	KTPL/R...

* 刀片需单独订购。Blades to be ordered separately.

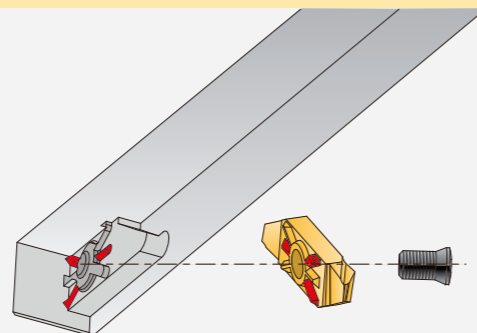
● 标准库存 Standard inventory ○ 订单生产 The order production

Data资料/gr ades材质

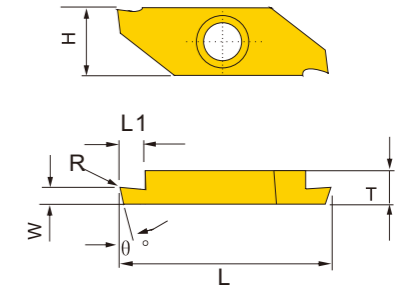
刀片 Insert	通装刀杆 General tool rod
	front turning前扫刀
	Back turning后扫刀
	grooving and turning切槽刀
	parting off切断刀
	threading螺纹刀
	blank精磨刀还

Tool concept刀具概念

- A complete swiss turning programm
瑞士独特换刀概念
- Rigid clamping system based on 3 serrations
三点接触紧固刀片安装方式
- Some inserts can be reground(up to geometry)
刀片可以反复修磨再用



KTPR..FA 切断加工 Parting off inserts

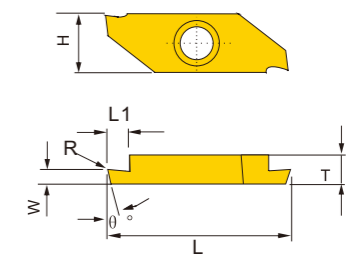


刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades										
		w	L1	R	T	H	L	θ°	KTX	KVX	KW20	
	KTPR/L100FA	1.0	5.0	0.08	3.5	9.4	25	16	●	●	●	
	KTPR/L150FA	1.5	7.0	0.08	3.5	9.4	25	16	●	●	●	
	KTPR/L200FA	2.0	8.5	0.08	3.5	9.4	25	16	●	●	●	
	KTPR/L250FA	2.5	8.5	0.08	3.5	9.4	25	16	●	●	●	
钢 Steel									★	★		
不锈钢 Stainless Steel										★		
铸铁 Cast Iron									☆	☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy										☆		
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

KTPR..FN 切槽加工 Grooving inserts



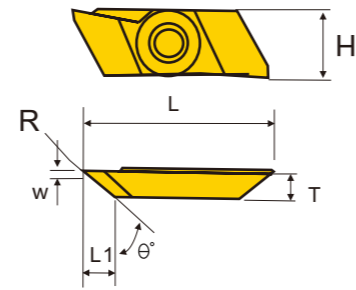
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades										
		w	L1	R	T	H	L	θ°	KTX	KVX	KW20	
	KTPR/L050FN	0.5	2.0	0.05	3.5	9.4	25	0	●	●	●	
	KTPR/L070FN	0.7	2.8	0.05	3.5	9.4	25	0	●	●	●	
	KTPR/L100FN	1.0	4.0	0.05	3.5	9.4	25	0	●	●	●	
	KTPR/L125FN	1.25	5.0	0.05	3.5	9.4	25	0	●	●	●	
	KTPR/L150FN	1.5	5.5	0.05	3.5	9.4	25	0	●	●	●	
	KTPR/L200FN	2.0	5.5	0.05	3.5	9.4	25	0	●	●	●	
	KTPR/L250FN	2.5	5.5	0.05	3.5	9.4	25	0	●	●	●	
钢 Steel									★	★		
不锈钢 Stainless Steel										★		
铸铁 Cast Iron									☆	☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy										☆		
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

KTPR..FB

后扫加工
Back turning inserts



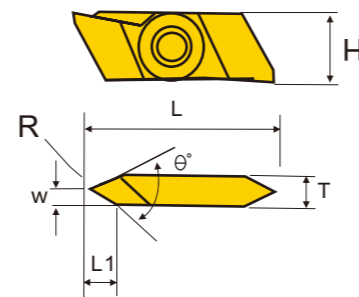
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		w	L1	R	T	H	L	θ°	KTX	KVX	KW20
	KTPR/L05FB	0.5	4.0	0.05	3.5	9.4	25	60	●	●	●
	KTPR/L10FB	1.0	4.0	0.1	3.5	9.4	25	60	●	●	●
钢 Steel									★	★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron									☆	☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

KTPR..FT

螺纹加工
Threading inserts



刀片外形 Insert shape	型号 Model	螺距 Pitch	尺寸与材质 Size and Grades								
			w	R	T	H	L	θ°	KTX	KVX	KW20
	KTPR/L6000FT	0.2-0.6	2.0	0.00	3.5	9.4	25	60	●	●	●
	KTPR/L6005FT	0.5-1.25	2.0	0.05	3.5	9.4	25	60	●	●	●
	KTPR/L5500FT	64-48	2.0	0.00	3.5	9.4	25	55	●	●	●
	KTPR/L5505FT	48-24	2.0	0.05	3.5	9.4	25	55	●	●	●
钢 Steel									★	★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron									☆	☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

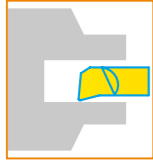
● 标准库存 standard stock ○ 订单生产 order production

整体合金小径内孔车刀一览表 Solid carbide mini boring bar

型号 Size	刀片外形 Shape	特点 Features
PSBFR 内孔镗刀 Boring		内孔加工 最小加工直径1.0mm
PSBPR 内孔镗刀 Boring		内孔加工 最小加工直径1.0mm
PSBTR 内孔镗刀 Boring		内孔加工 最小加工直径1.0mm
PSBQR 内孔防形镗刀 Copying		内孔仿形加工 最小加工直径3.0mm
PSBUR 内孔端面镗孔 Boring		内孔端面加工 最小加工直径3.0mm
PSBDR 内孔镗倒角切槽 Chamfering		内孔, 倒角, 切槽加工 最小加工直径4.0mm
2PSBTR 双头内孔镗刀 Boring		内孔加工 最小加工直径2.0mm
PSTIR 内孔牙刀 Threading		内螺纹加工 最小加工直径1.5mm
PSTIR 梯形牙刀30° Threading		内梯形螺纹加工 最小加工直径TR8
PSBWR 内孔槽刀 Square Grooving		内切槽加工 最小加工直径4.0mm
PSMFR 右端面槽刀 Face Grooving		端面切槽加工 最小加工直径8.0mm
PSMFL 左端面槽刀 Face Grooving		端面切槽加工 最小加工直径8.0mm
PSMVR 深端面槽刀 Face Grooving		深端面切槽加工 最小加工直径15.0mm
PSBKR 内孔圆槽刀 Round Grooving		内孔圆切槽加工 最小加工直径4.0mm
PSBXR 内孔勾刀 Back Boring		内孔后拉加工 最小加工直径4.0mm
PSBCR 内孔镗及倒角 Chamfering		内孔及倒角加工 最小加工直径3.0mm
PSL 刀套 Sleeve		

推荐切削条件表
Recommended Cutting Conditions

镗孔
Boring
PSBFR 内孔镗刀



刀片外形 Insert shape	型号 Model	R	最小直径 Min Dia mm	D	尺寸与材质 Size and Grades						KTX	KW20
					L1	L2	F	S	H			
	PSBFR10030R005-D4	0.05	1.0	4.0	3.0	40	0.8	0.2	3.7	●	●	
	PSBFR15050R010-D4	0.1	1.5	4.0	5.0	40	1.2	0.2	3.7	●	●	
	PSBFR20070R010-D4	0.1	2.0	4.0	7.0	40	1.7	0.35	3.7	●	●	
	PSBFR25070R010-D4	0.1	2.5	4.0	7.0	40	2.3	0.45	3.7	●	●	
	PSBFR30100R010-D4	0.1	3.0	4.0	10.0	50	2.7	0.45	3.7	●	●	
	PSBFR35150R015-D4	0.15	3.5	4.0	15.0	50	3.2	0.5	3.7	●	●	
	PSBFR40150R015-D4	0.15	4.0	4.0	15.0	50	3.7	0.5	3.7	●	●	
	PSBFR45150R015-D4	0.15	4.5	4.0	15.0	50	4.0	0.5	3.7	●	●	
	PSBFR50200R020-D6	0.20	5.0	6.0	20.0	50	4.7	0.9	5.7	●	●	
	PSBFR55200R020-D6	0.20	5.5	6.0	20.0	50	5.2	0.9	5.7	●	●	
	PSBFR60200R020-D6	0.20	6.0	6.0	20.0	50	5.7	0.9	5.7	●	●	
	钢 Steel										★	
不锈钢 Stainless Steel										★		
铸铁 Cast Iron										☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy										☆		
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

镗孔
Boring
PSBPR 内孔镗刀



刀片外形 Insert shape	型号 Model	R	最小直径 Min Dia mm	D	尺寸与材质 Size and Grades						KTX	KW20
					L1	L2	F	S	H			
	PSBPR1 4L R0.00	0.00	1.0	4.0	4.0	40	0.85	0.15	3.7	●	●	
	PSBPR1 4L R0.05	0.05	1.0	4.0	4.0	40	0.85	0.15	3.7	●	●	
	PSBPR2 6L R0.05	0.05	2.0	4.0	6.0	40	1.8	0.3	3.7	●	●	
	PSBPR2 6L R0.1	0.1	2.0	4.0	6.0	40	1.8	0.3	3.7	●	●	
	PSBPR3 6L R0.05	0.05	3.0	4.0	6.0	50	2.7	0.3	3.7	●	●	
	PSBPR3 6L R0.1	0.1	3.0	4.0	6.0	50	2.7	0.3	3.7	●	●	
	PSBPR3 6L R0.2	0.2	3.0	4.0	6.0	50	2.7	0.3	3.7	●	●	
	PSBPR3 10L R0.05	0.05	3.0	4.0	10.0	50	2.7	0.3	3.7	●	●	
	PSBPR3 10L R0.1	0.1	3.0	4.0	10.0	50	2.7	0.3	3.7	●	●	
	PSBPR3 10L R0.2	0.2	3.0	4.0	10.0	50	2.7	0.3	3.7	●	●	
	PSBPR4 8L R0.05	0.05	4.0	4.0	8.0	50	3.7	0.4	3.7	●	●	
	PSBPR4 8L R0.1	0.1	4.0	4.0	8.0	50	3.7	0.4	3.7	●	●	
	PSBPR4 8L R0.2	0.2	4.0	4.0	8.0	50	3.7	0.4	3.7	●	●	
	PSBPR4 15L R0.05	0.05	4.0	4.0	15.0	50	3.7	0.4	3.7	●	●	
	PSBPR4 15L R0.1	0.1	4.0	4.0	15.0	50	3.7	0.4	3.7	●	●	
	PSBPR4 15L R0.2	0.2	4.0	4.0	15.0	50	3.7	0.4	3.7	●	●	
	PSBPR5 20L R0.05	0.05	5.0	5.0	20.0	50	4.7	0.5	4.7	●	●	
	PSBPR5 20L R0.1	0.1	5.0	5.0	20.0	50	4.7	0.5	4.7	●	●	
	PSBPR5 20L R0.2	0.2	5.0	5.0	20.0	50	4.7	0.5	4.7	●	●	
	PSBPR6 20L R0.05	0.05	6.0	6.0	20.0	50	5.7	0.5	5.7	●	●	
	PSBPR6 20L R0.1	0.1	6.0	6.0	20.0	50	5.7	0.5	5.7	●	●	
	PSBPR6 20L R0.2	0.2	6.0	6.0	20.0	50	5.7	0.5	5.7	●	●	
	PSBPR7 25L R0.15	0.15	7.0	7.0	25.0	50	6.5	0.5	6.7	●	●	
	PSBPR8 30L R0.15	0.15	8.0	8.0	30.0	60	7.5	0.5	7.7	●	●	
PSBPR8 30L R0.3	0.3	8.0	8.0	30.0	60	7.5	0.5	7.7	●	●		
钢 Steel										★		
不锈钢 Stainless Steel										★		
铸铁 Cast Iron										☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy										☆		
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

镗孔
Boring
PSBTR 内孔镗刀



仿形
Copying
PSBQR 内孔仿形镗刀



刀片外形 Insert shape	型号 Model	R	最小直径 Min Dia mm	尺寸与材质 Size and Grades							KTX	KW20
				D	L1	L2	F	S	H			
	PSBTR1 4L R0.00	0.00	1.0	4.0	4.0	40	0.85	0.15	3.7	●	●	
	PSBTR1 4L R0.05	0.05	1.0	4.0	4.0	40	0.85	0.15	3.7	●	●	
	PSBTR2 6L R0.05	0.05	2.0	4.0	6.0	40	1.8	0.3	3.7	●	●	
	PSBTR2 6L R0.1	0.1	2.0	4.0	6.0	40	1.8	0.3	3.7	●	●	
	PSBTR3 6L R0.05	0.05	3.0	4.0	6.0	50	2.7	0.3	3.7	●	●	
	PSBTR3 6L R0.1	0.1	3.0	4.0	6.0	50	2.7	0.3	3.7	●	●	
	PSBTR3 6L R0.2	0.2	3.0	4.0	6.0	50	2.7	0.3	3.7	●	●	
	PSBTR3 10L R0.05	0.05	3.0	4.0	10.0	50	2.7	0.3	3.7	●	●	
	PSBTR3 10L R0.1	0.1	3.0	4.0	10.0	50	2.7	0.3	3.7	●	●	
	PSBTR3 10L R0.2	0.2	3.0	4.0	10.0	50	2.7	0.3	3.7	●	●	
	PSBTR4 8L R0.05	0.05	4.0	4.0	8.0	50	3.7	0.4	3.7	●	●	
	PSBTR4 8L R0.1	0.1	4.0	4.0	8.0	50	3.7	0.4	3.7	●	●	
	PSBTR4 8L R0.2	0.2	4.0	4.0	8.0	50	3.7	0.4	3.7	●	●	
	PSBTR4 15L R0.05	0.05	4.0	4.0	15.0	50	3.7	0.4	3.7	●	●	
	PSBTR4 15L R0.1	0.1	4.0	4.0	15.0	50	3.7	0.4	3.7	●	●	
	PSBTR4 15L R0.2	0.2	4.0	4.0	15.0	50	3.7	0.4	3.7	●	●	
	PSBTR5 20L R0.05	0.05	5.0	5.0	20.0	50	4.7	0.5	4.7	●	●	
	PSBTR5 20L R0.1	0.1	5.0	5.0	20.0	50	4.7	0.5	4.7	●	●	
	PSBTR5 20L R0.2	0.2	5.0	5.0	20.0	50	4.7	0.5	4.7	●	●	
	PSBTR6 20L R0.05	0.05	6.0	6.0	20.0	50	5.7	0.5	5.7	●	●	
	PSBTR6 20L R0.1	0.1	6.0	6.0	20.0	50	5.7	0.5	5.7	●	●	
	PSBTR6 20L R0.2	0.2	6.0	6.0	20.0	50	5.7	0.5	5.7	●	●	
	PSBTR7 25L R0.15	0.15	7.0	7.0	25.0	50	6.5	0.5	6.7	●	●	
	PSBTR8 30L R0.15	0.15	8.0	8.0	30.0	60	7.5	0.5	7.7	●	●	
	PSBTR8 30L R0.4	0.4	8.0	8.0	30.0	60	7.5	0.5	7.7	●	●	
	钢 Steel									★		
	不锈钢 Stainless Steel									★		
	铸铁 Cast Iron									☆		
	有色金属 Nonferrous Metal										★	
	耐热合金 Heat Resistant Alloy									☆		
	淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

刀片外形 Insert shape	型号 Model	R	最小直径 Min Dia mm	尺寸与材质 Size and Grades							KTX	KW20
				D	L1	L2	F	S	H			
	PSBQR3 6L R0.05	0.05	3.0	4.0	6.0	50	2.9	0.6	3.7	●	●	
	PSBQR3 10L R0.2	0.2	3.0	4.0	10.0	50	2.9	0.6	3.7	●	●	
	PSBQR4 10L R0.1	0.1	4.0	4.0	10.0	50	3.9	0.8	3.7	●	●	
	PSBQR4 10L R0.2	0.2	4.0	4.0	10.0	50	3.9	0.8	3.7	●	●	
	PSBQR5 15L R0.1	0.1	5.0	5.0	15.0	50	4.9	1.0	4.7	●	●	
	PSBQR5 15L R0.2	0.2	5.0	5.0	15.0	50	4.9	1.0	4.7	●	●	
	PSBQR6 15L R0.1	0.1	6.0	6.0	15.0	50	5.9	1.0	5.7	●	●	
	PSBQR6 15L R0.2	0.2	6.0	6.0	15.0	50	5.9	1.0	5.7	●	●	
	PSBQR7 20L R0.2	0.2	7.0	7.0	20.0	50	6.5	1.5	6.7	●	●	
	PSBQR8 25L R0.1	0.1	8.0	8.0	25.0	60	7.5	2.0	7.7	●	●	
	PSBQR8 25L R0.2	0.2	8.0	8.0	25.0	60	7.5	2.0	7.7	●	●	
	钢 Steel									★		
	不锈钢 Stainless Steel									★		
	铸铁 Cast Iron									☆		
	有色金属 Nonferrous Metal										★	
	耐热合金 Heat Resistant Alloy									☆		
	淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

镗孔
Boring
PSBUR 内孔端面镗孔



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		R	最小直径 Min Dia mm	D	L1	L2	F/F1	S	H	KTX	KW20
	PSBUR3 10L R0.1	0.1	3.0	4.0	10.0	50	2.7/1.3	0.4	3.7	●	●
	PSBUR4 15L R0.1	0.1	4.0	4.0	15.0	50	3.7/1.7	0.5	3.7	●	●
	PSBUR5 20L R0.2	0.2	5.0	5.0	20.0	50	4.7/2.1	0.7	4.7	●	●
	PSBUR6 20L R0.2	0.2	6.0	6.0	20.0	50	5.7/2.8	1.0	5.7	●	●
	PSBUR7 25L R0.2	0.2	7.0	7.0	25.0	50	6.7/3.2	1.0	6.7	●	●
	PSBUR8 30L R0.2	0.2	8.0	8.0	30.0	60	7.7/3.8	1.0	7.7	●	●
钢 Steel										★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron										☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

镗孔
Chamfering
PSBDR 内孔镗倒角切槽



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		R	最小直径 Min Dia mm	D	L1	L2	F	S/W	H	KTX	KW20
	PSBDR4 10L R0.2	0.2	4.0	4.0	10.0	50	3.8	0.8/1.5	3.7	●	●
	PSBDR5 15L R0.2	0.2	5.0	5.0	15.0	50	4.8	1.2/1.5	4.7	●	●
	PSBDR6 15L R0.2	0.2	6.0	6.0	15.0	50	5.8	1.4/1.5	5.7	●	●
钢 Steel										★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron										☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

镗孔

Boring

2PSBTR 双头内孔镗刀



内螺纹

Threading

PSTIR 内孔牙刀



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		R	最小直径 Min Dia mm	D	L1	L2	F	S	H	KTX	KW20
	2PSBTR2 5L R0.05	0.05	2.0	3.0	5.0	50	1.8	0.15	2.7	●	●
	2PSBTR3 15L R0.1	0.1	3.0	3.0	15.0	50	2.7	0.3	3.7	●	●
	2PSBTR4 15L R0.15	0.15	4.0	4.0	15.0	50	3.7	0.4	3.7	●	●
	2PSBTR5 25L R0.2	0.2	5.0	5.0	25.0	70	4.7	0.5	4.7	●	●
	2PSBTR6 25L R0.2	0.2	6.0	6.0	25.0	70	5.7	0.5	5.7	●	●
钢 Steel										★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron										☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

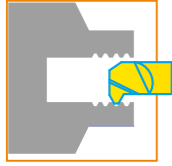
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		R	最小直径 Min Dia mm	D	F	L1/L2	S	螺距 pitch	A	KTX	KW20
	PSTIR14050-60°	0.00	1.5	4.0	1.4	5.0/50	0.4	0.25-0.45	60	●	●
	PSTIR18070-60°	0.00	1.5	4.0	1.8	7.0/50	0.6	0.25-0.7	60	●	●
	PSTIR24070-60°	0.00	2.5	4.0	2.4	7.0/50	0.5	0.35-0.6	60	●	●
	PSTIR30120-60°	0.03	3.1	4.0	3.0	12.0/50	0.85	0.5-0.8	60	●	●
	PSTIR40150-60°	0.05	4.0	4.0	3.85	15.0/50	1.1	0.5-1.0	60	●	●
	PSTIR50150-60°	0.05	5.0	5.0	4.8	15.0/50	1.5	0.75-1.5	60	●	●
	PSTIR60200-60°	0.08	6.0	6.0	5.6	20.0/50	1.8	0.75-1.75	60	●	●
	PSTIR80220-60°	0.08	8.0	8.0	7.8	22.0/60	2.2	1.0-2.0	60	●	●
	PSTIR40150-55°	0.05	4.0	4.0	3.85	15.0/50	1.1	1/4-20BSW	55	●	●
	PSTIR50150-55°	0.05	5.0	5.0	4.8	15.0/50	1.5	5/16-18BSW	55	●	●
	PSTIR60200-55°	0.08	6.0	6.0	5.6	20.0/50	1.8	3/8-16BSW	55	●	●
	PSTIR80220-55°	0.08	8.0	8.0	7.8	22.0/60	2.2	1/2-12BSW	55	●	●
钢 Steel										★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron										☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											


★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

内螺纹
Threading
PSTIR 梯形牙刀30°



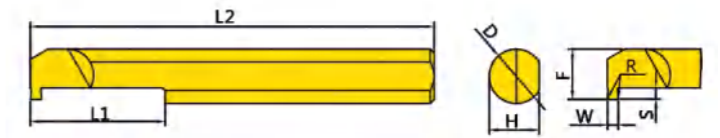
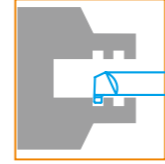
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades										
		R	最小直径 Min Dia mm	D	F	L1	S	螺距 pitch	L2	KTX	KW20	
	PSTIR8 25L A30°	0.1	Tr8	8.0	6.2	25	1.3	1.5	60	●	●	
	PSTIR8 25L A30°	0.2	Tr9	8.0	6.5	25	1.8	2.0	60	●	●	
	PSTIR8 30L A30°	0.2	Tr11	8.0	7.5	30	2.5	3.0	60	●	●	
	PSTIR10 35L A30°	0.2	Tr14	10.0	9.5	35	2.8	4.0	70	●	●	
钢 Steel										★		
不锈钢 Stainless Steel										★		
铸铁 Cast Iron										☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy										☆		
淬硬钢 Hardened Steel												


★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

切槽
Square Grooving
PSBWR 内孔槽刀



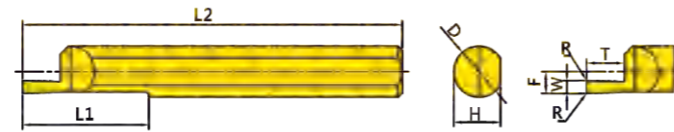
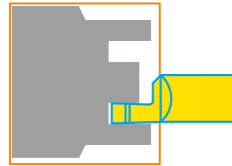
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades										
		W	最小直径 Min Dia mm	D	L1	L2	F	S	H	KTX	KW20	
	PSBWR05100R005-D4	0.5	4.0	4.0	10	50	3.8	1.0	3.7	●	●	
	PSBWR08100R005-D4	0.8	4.0	4.0	10	50	3.8	1.0	3.7	●	●	
	PSBWR10100R005-D4	1.0	4.0	4.0	10	50	3.8	1.5	3.7	●	●	
	PSBWR15100R005-D4	1.5	4.0	4.0	10	50	3.8	1.5	3.7	●	●	
	PSBWR10100R010-D5	1.0	5.0	5.0	10	50	4.8	1.5	4.7	●	●	
	PSBWR12100R010-D5	1.2	5.0	5.0	10	50	4.8	1.5	4.7	●	●	
	PSBWR15100R010-D5	1.5	5.0	5.0	10	50	4.8	2.0	4.7	●	●	
	PSBWR20100R010-D5	2.0	5.0	5.0	10	50	4.8	2.0	4.7	●	●	
	PSBWR10120R015-D6	1.0	6.0	6.0	12	50	5.8	2.0	5.7	●	●	
	PSBWR15120R015-D6	1.5	6.0	6.0	12	50	5.8	2.0	5.7	●	●	
	PSBWR20120R015-D6	2.0	6.0	6.0	12	50	5.8	2.0	5.7	●	●	
	PSBWR25160R015-D6	2.5	6.0	6.0	16	50	5.8	2.5	5.7	●	●	
	PSBWR15160R015-D8	1.5	8.0	8.0	16	50	7.8	2.0	7.7	●	●	
	PSBWR20160R015-D8	2.0	8.0	8.0	16	50	7.8	3.0	7.7	●	●	
	PSBWR25160R015-D8	2.5	8.0	8.0	16	50	7.8	3.0	7.7	●	●	
	钢 Steel										★	
不锈钢 Stainless Steel										★		
铸铁 Cast Iron										☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy										☆		
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

端面槽
Face Grooving
PSMFR 右端面槽刀



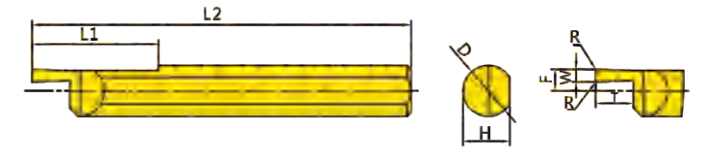
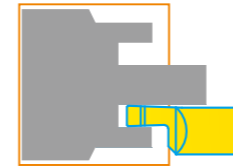
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		W	最小直径 Min Dia mm	D	L1	L2	F	R	H	KTX	KW20
	PSMFR6 15L W0.75	0.75	8.0	6.0	15	50	2.95	0.1	5.7	●	●
	PSMFR6 15L W1.0	1.0	8.0	6.0	15	50	2.95	0.1	5.7	●	●
	PSMFR8 20L W2.0	2.0	10.0	8.0	20	50	3.95	0.2	7.7	●	●
	PSMFR8 20L W2.5	2.5	10.0	8.0	20	50	3.95	0.2	7.7	●	●
	PSMFR8 20L W3.0	3.0	10.0	8.0	20	50	3.95	0.2	7.7	●	●
钢 Steel										★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron										☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

端面槽
Face Grooving
PSMFL 右端面槽刀



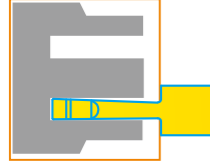
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		W	最小直径 Min Dia mm	D	L1	L2	F	R	H	KTX	KW20
	PSMFL6 15L W0.75	0.75	8.0	6.0	15	50	2.95	0.1	5.7	●	●
	PSMFL6 15L W1.0	1.0	8.0	6.0	15	50	2.95	0.1	5.7	●	●
	PSMFL8 20L W2.0	2.0	10.0	8.0	20	50	3.95	0.2	7.7	●	●
	PSMFL8 20L W2.5	2.5	10.0	8.0	20	50	3.95	0.2	7.7	●	●
	PSMFL8 20L W3.0	3.0	10.0	8.0	20	50	3.95	0.2	7.7	●	●
钢 Steel										★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron										☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											


★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

端面槽
Face Grooving
PSMVR 深端面槽刀



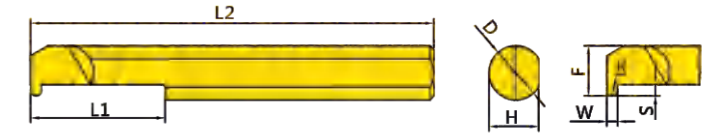
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades								
		W	最小直径 Min Dia mm	D	L1	L2	R	H	KTX	KW20
	PSMVR10 15L W2.0	2.0	15.0	10	15	50	0.2	9	●	●
	PSMVR10 15L W3.0	3.0	15.0	10	15	50	0.2	9	●	●
	PSMVR10 15L W4.0	4.0	15.0	10	15	50	0.2	9	●	●
钢 Steel									★	
不锈钢 Stainless Steel									★	
铸铁 Cast Iron									☆	
有色金属 Nonferrous Metal										★
耐热合金 Heat Resistant Alloy									☆	
淬硬钢 Hardened Steel										


★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

切槽
Round Grooving
PSBKR 内孔圆槽刀



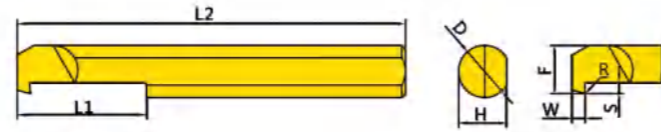
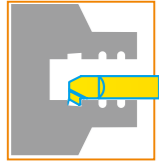
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		W	最小直径 Min Dia mm	D	L1	L2	F	R	H	KTX	KW20
	PSBKR4 R0.5 10L	1.0	4.0	4.0	10	50	3.8	0.5	3.7	●	●
	PSBKR4 R0.75 10L	1.5	4.0	4.0	10	50	3.8	0.75	3.7	●	●
	PSBKR6 R0.5 15L	1.0	6.0	6.0	15	50	5.8	0.5	5.7	●	●
	PSBKR6 R0.75 15L	1.5	6.0	6.0	15	50	5.8	0.75	5.7	●	●
	PSBKR6 R1.0 15L	2.0	6.0	6.0	15	50	5.8	1.0	5.7	●	●
钢 Steel										★	
不锈钢 Stainless Steel										★	
铸铁 Cast Iron										☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	
淬硬钢 Hardened Steel											


★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

镗孔
Back Boring
PSBXR 内孔勾刀



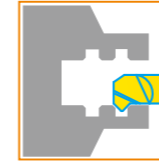
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades																					
		R	最小直径 Min Dia mm	D	L1	L2	F	S	H	KTX	KW20												
	PSBXR4 R0.1 10L	0.1	4.0	4.0	10	50	3.8	1.0	3.7	●	●												
	PSBXR5 R0.15 15L	0.15	5.0	5.0	15	50	4.8	1.5	4.7	●	●												
	PSBXR6 R0.2 20L	0.2	6.0	6.0	20	50	5.8	2.0	5.7	●	●												
<table border="1"> <tr> <td>钢 Steel</td> <td>★</td> </tr> <tr> <td>不锈钢 Stainless Steel</td> <td>★</td> </tr> <tr> <td>铸铁 Cast Iron</td> <td>☆</td> </tr> <tr> <td>有色金属 Nonferrous Metal</td> <td>★</td> </tr> <tr> <td>耐热合金 Heat Resistant Alloy</td> <td>☆</td> </tr> <tr> <td>淬硬钢 Hardened Steel</td> <td></td> </tr> </table>												钢 Steel	★	不锈钢 Stainless Steel	★	铸铁 Cast Iron	☆	有色金属 Nonferrous Metal	★	耐热合金 Heat Resistant Alloy	☆	淬硬钢 Hardened Steel	
钢 Steel	★																						
不锈钢 Stainless Steel	★																						
铸铁 Cast Iron	☆																						
有色金属 Nonferrous Metal	★																						
耐热合金 Heat Resistant Alloy	☆																						
淬硬钢 Hardened Steel																							


★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

镗孔
Chamfering
PSBCR 内孔镗及倒角



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades																					
		R	最小直径 Min Dia mm	D	L1	L2	F	S	H	KTX	KW20												
	PSBCR3 10L R0.2	0.2	3.0	4.0	10	50	2.8	0.5	3.7	●	●												
	PSBCR4 15L R0.2	0.2	4.0	4.0	15	50	3.7	0.8	3.7	●	●												
	PSBCR5 15L R0.2	0.2	5.0	5.0	15	50	4.7	1.2	4.7	●	●												
	PSBCR6 15L R0.2	0.2	6.0	6.0	15	50	5.7	1.5	5.7	●	●												
<table border="1"> <tr> <td>钢 Steel</td> <td>★</td> </tr> <tr> <td>不锈钢 Stainless Steel</td> <td>★</td> </tr> <tr> <td>铸铁 Cast Iron</td> <td>☆</td> </tr> <tr> <td>有色金属 Nonferrous Metal</td> <td>★</td> </tr> <tr> <td>耐热合金 Heat Resistant Alloy</td> <td>☆</td> </tr> <tr> <td>淬硬钢 Hardened Steel</td> <td></td> </tr> </table>												钢 Steel	★	不锈钢 Stainless Steel	★	铸铁 Cast Iron	☆	有色金属 Nonferrous Metal	★	耐热合金 Heat Resistant Alloy	☆	淬硬钢 Hardened Steel	
钢 Steel	★																						
不锈钢 Stainless Steel	★																						
铸铁 Cast Iron	☆																						
有色金属 Nonferrous Metal	★																						
耐热合金 Heat Resistant Alloy	☆																						
淬硬钢 Hardened Steel																							

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

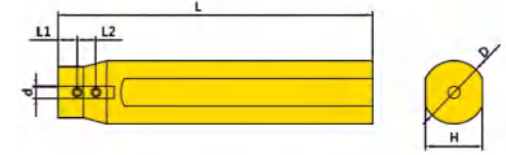
○ 订单生产 order production

刀片材质一览表 Summary of Insert Grades

整体合金内孔镗刀 Solid Carbide Mini Boring Bar

材质符号 Workpiece Material	P 钢 Steel				M 不锈钢 Stainless steel					K 铸铁 Cast Iron				N 有色金属 Nonferrous			S 耐热合金 NRSA				H 高硬材料 Hardness					
	ISO	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	N10	N20	N30	S01	S10	S20	S30	H01	H10	H20	
PVD 涂层硬质合金 PVD Coated Carbide		KTX					KVX				KVX															
硬质合金 Uncoated Carbide																KW20										

刀套 Sleeve PSL 刀套

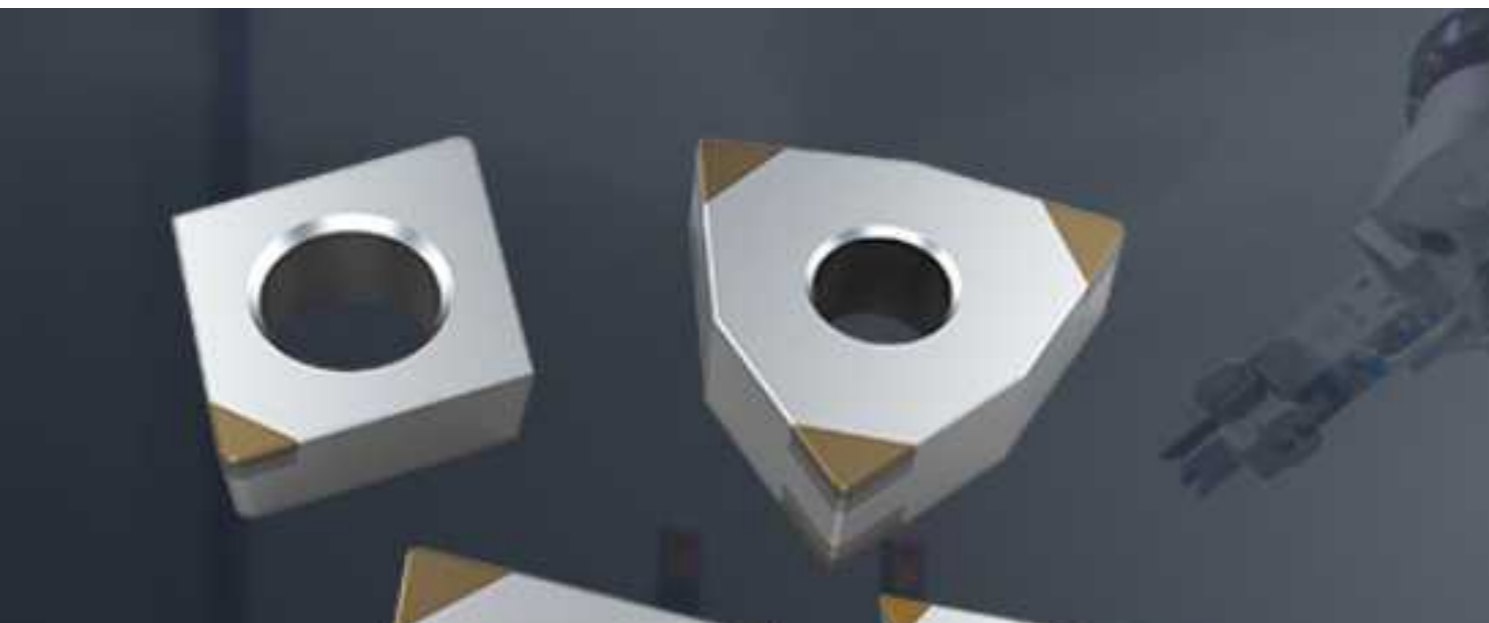


外形 shape	型号 Model	库存 Stock	尺寸 Size					
			D	d	L1	L2	H	L
	SL1603	●	16	3.0	6.0	6.0	15	100
	SL1604	●	16	4.0	6.0	6.0	15	100
	SL1605	●	16	5.0	6.0	6.0	15	100
	SL1606	●	16	6.0	6.0	6.0	15	100
	SL1607	●	16	7.0	6.0	6.0	15	100
	SL1608	●	16	8.0	6.0	6.0	15	100
	SL2003	●	20	3.0	6.0	6.0	19	100
	SL2004	●	20	4.0	6.0	6.0	19	100
	SL2005	●	20	5.0	6.0	6.0	19	100
	SL2006	●	20	6.0	6.0	6.0	19	100
	SL2007	●	20	7.0	6.0	6.0	19	100
	SL2008	●	20	8.0	6.0	6.0	19	100

●标准库存 standard stock ○订单生产 order production

推荐切削条件表 Recommended Cutting Conditions

Material 被加工材料	VC (m/min)	孔径 boring bar Φ		
		Φ1.0-Φ2.0 (mm/rev)	Φ2.5-Φ4.0 (mm/rev)	Φ4.5-Φ5.5 (mm/rev)
Free-cutting steel 易削铁	60-100	0.02-0.03	0.02-0.08	0.03-0.10
Low alloyed steel 低合金钢	50-80	0.01-0.03	0.02-0.05	0.03-0.06
High alloyed steel 高合金钢	40-60	0.01-0.02	0.02-0.04	0.02-0.06
Stainless steel 不锈钢	40-90	0.01-0.03	0.02-0.05	0.03-0.08
Aluminium 铝合金	60-150	0.01-0.03	0.02-0.06	0.03-0.1
Titanium 钛合金	30-70	0.01-0.03	0.02-0.05	0.03-0.1
Copper 铜	60-150	0.01-0.03	0.02-0.05	0.03-0.08



内孔车刀

Inner hole tool

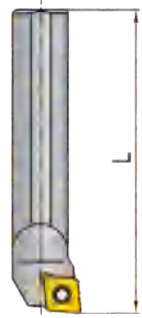
内孔车刀

Inner hole tool



G1~G26

75° MCKNR/L	95° MCLNR/L	G01
107.5° MDQNR/L	93° MDUNR/L	G02
93° MDZNR/L	75° MSKNR/L	G03
117.5° MVQNR/L	93° MVUNR/L	G04
72° 30' MVWNR/L	96° MVXNR/L	G05
95° MWLNR/L	91° MTFNR/L	G06
93° MTUNR/L	60° MTWNR/L	G07
95° PCLNR/L	93° PDUNR/L	G08
75° PSKNR/L	90° PTFNR/L	G09
95° PWLNR/L		G10
93° SWUBR(小径)		G11
95° SCLCR(小径)		G12
95° SCLC		G13
75° SCKCR/L	93° SCZCR/L	G14
93° SDUCR/L		G15
107.5° SDQCR/L		G16
122° SDJCR/L		G17
62.5° SDWCR/L		G18
3° SDZCR/L		G19
75° SSKCR/L		G20
93° STUC		G21
93° STUB/P		G22
60° STWBR/L	60° STWCR/L	G23
52° SVJCR/L	52° SVJBR/L	G24
117.5° SVQCR/L	117.5° SVQBR/L	G25
93° SVUCR/L	93° SVUBR/L	G26



1. 刀具结构
Tool structure

S 钢制刀杆
C 硬质合金刀杆
E 内冷合金刀杆

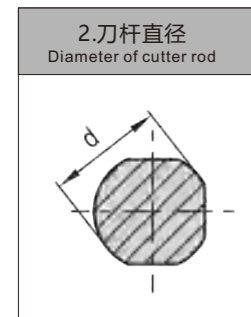
3. 刀具长度 Tool length	
A=32	P=170
B=40	Q=180
C=50	R=200
D=60	S=250
E=70	T=300
F=80	U=350
G=90	V=400
H=100	W=450
J=110	Y=500
K=125	X=特殊 special
L=140	
M=150	
N=160	

5. 刀片形状 Blade shape	
T	
S	
C	
D	
V	
W	

7. 刀片法后角 blade normal rear Angle	
B	
C	
P	
N	

9. 刀片尺寸 Blade dimensions	
T	
S	
C	
D	
V	
W	

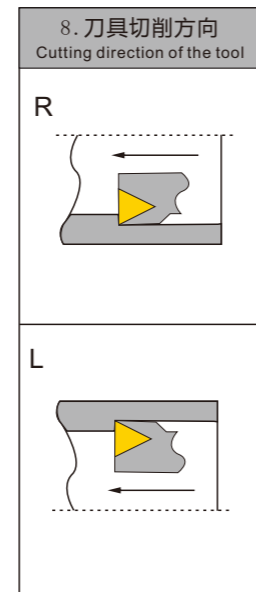
S	32	U	-	S	T	F	C	R	16	-	
1	2	3	4	5	6	7	8	9	10		



2. 刀杆直径
Diameter of cutter rod

4. 压紧方式 Pressing mode	
C	
M	
P	
S	

6. 刀具形式 Tool form	
K	
F	
U	
L	
Q	
J	
N	
S	
X	其它 other



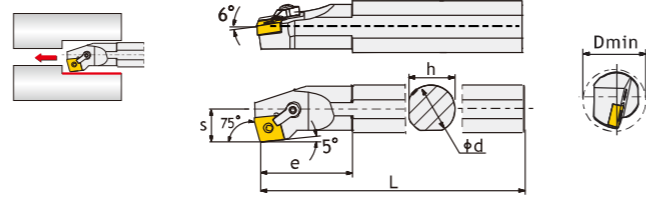
8. 刀具切削方向
Cutting direction of the tool

10. 制造商代码 Manufacturer code	
D=加大偏置f+1.0mm D= Increase bias F +1.0mm	
E=加大偏置f+2.0mm E= Increase bias F +2.0mm	
X=背镗 X = boring	

用途 use	内端面清根加工 Inner end face root cleaning processing		仿形加工 Root with			切入反向横进加工 Inner diameter spherical root cleaning	
	80°菱形 80° C of diamond		55°菱形 55° diamond D	35°菱形 35° diamond V		55°菱形 55° diamond D	35°菱形 35° diamond V
螺钉锁紧式 Screw lock type							
复合式压紧 Compound pressing		—		—	—	—	—
杠杆锁紧 Lever lock		—		—	—		—

用途 use	内径球面清根用 Inner diameter spherical root cleaning	通孔加工 Blind hole processing		盲孔加工 Hole processing			
	35°菱形 35° diamond V	六角形 Hexagonal W/other	正方形 Square S	六角形 Hexagonal W/other		三角形 Delta T/others	
螺钉锁紧式 Screw lock type					—		—
复合式压紧 Compound pressing	—	—		—			—
杠杆锁紧 Lever lock	—	—			—		—

75° MCKNR/L



右手刀图例

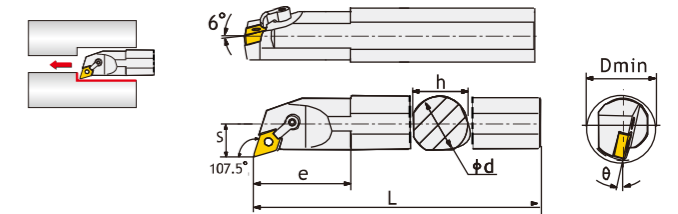
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e						
S20Q-MCKNR-12	S20Q-MCKNL-12	○	○	26	20	18	180	14	35		×	MSP613	MCL1810	WS061020	S2.5
S25R-MCKNR-12	S25R-MCKNL-12	○	○	32	25	23	200	16.5	35						S3
S32S-MCKNR-12	S32S-MCKNL-12	○	○	40	32	30	250	22	50	CN..1204..					
S40T-MCKNR-12	S40T-MCKNL-12	○	○	50	40	38	300	26	55		MC1204	MSP617	MCL1814	WS061025	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

107.5° MDQNR/L



右手刀图例

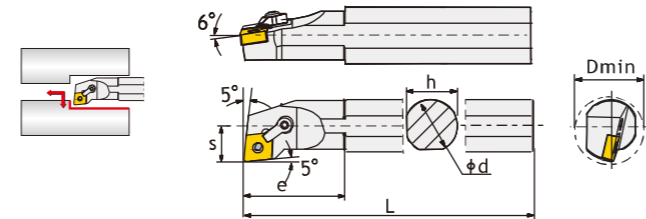
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e						
S20Q-MDQNR-1504	S20Q-MDQNL-1504	○	○	26	20	18	180	13	40		×	MSP613	MCL1810	WS061020	S2.5
S25R-MDQNR-1504	S25R-MDQNL-1504	○	○	32	25	23	200	17	45	DN..1504..					S3
S32S-MDQNR-1504	S32S-MDQNL-1504	○	○	40	32	30	250	20	55						
S40T-MDQNR-1504	S40T-MDQNL-1504	○	○	50	40	38	300	24	55						
S32S-MDQNR-1506	S32S-MDQNL-1506	○	○	40	32	30	250	20	55		MD1504		MCL2114	WS061025	S3
S40T-MDQNR-1506	S40T-MDQNL-1506	○	○	50	40	38	300	24	55	DN..1506..		MSP619			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° MCLNR/L



右手刀图例

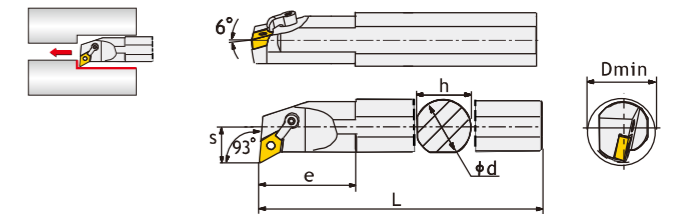
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e						
S20Q-MCLNR-12	S20Q-MCLNL-12	○	○	26	20	18	180	13	40		×	MSP613	MCL1810	WS061020	S2.5
S25R-MCLNR-12	S25R-MCLNL-12	○	○	32	25	23	200	16	40	CN..1204..					S3
S32S-MCLNR-12	S32S-MCLNL-12	○	○	40	32	30	250	20	50						
S40T-MCLNR-12	S40T-MCLNL-12	○	○	50	40	37	300	26	55		MC1204	MSP617	MCL1814	WS161025	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MDUNR/L



右手刀图例

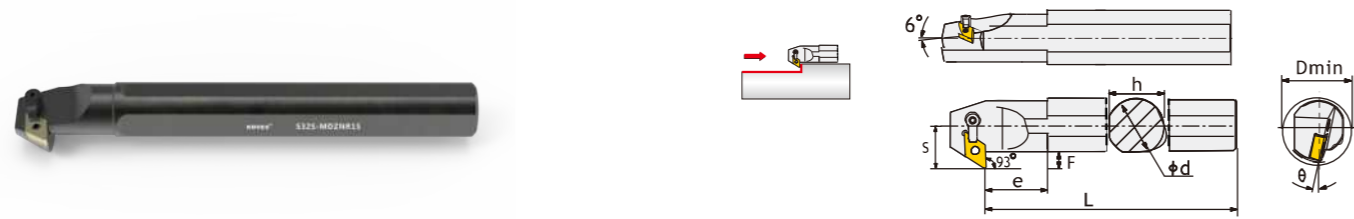
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e						
S20Q-MDUNR-1504	S20Q-MDUNL-1504	○	○	28	20	18	180	17	40		×	MSP613	MCL1810	WS061020	S2.5
S25R-MDUNR-1504	S25R-MDUNL-1504	○	○	32	25	24	200	19	40	DN..1504..			MCL1814		S3
S32S-MDUNR-1504	S32S-MDUNL-1504	○	○	40	32	30	250	22	45						
S40T-MDUNR-1504	S40T-MDUNL-1504	○	○	50	40	37	300	26	55						
S32S-MDUNR-1506	S32S-MDUNL-1506	○	○	40	32	30	250	22	45		MD1504		MCL2114	WS161025	S3
S40T-MDUNR-1506	S40T-MDUNL-1506	○	○	50	40	37	300	26	55	DN..1506..		MSP619			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MDZNR/L



右手刀图例

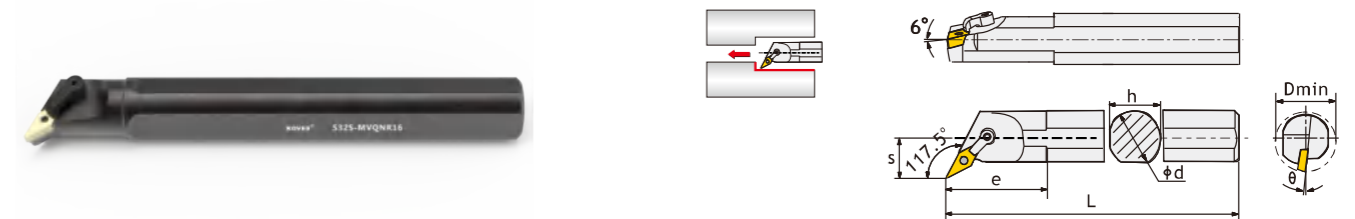
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e	F						
S25R-MDZNR-1504	S25R-MDZNL-1504	○	○	36	25	23	200	22	35	11		×	MSP613			S2.5/S3
S32S-MDZNR-1504	S32S-MDZNL-1504	○	○	43	32	30	250	26	40	12	DN..1504..		MSP617	MCL1814	WS061025	
S40T-MDZNR-1504	S40T-MDZNL-1504	○	○	50	40	37	300	29	50	11.5		MD1504		MCL1814	WS061025	S3
S32S-MDZNR-1506	S32S-MDZNL-1506	○	○	43	32	30	250	26	40	12			MSP619			
S40T-MDZNR-1506	S40T-MDZNL-1506	○	○	50	40	37	300	29	50	11.5	DN..1506..					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

117.5° MVQNR/L



右手刀图例

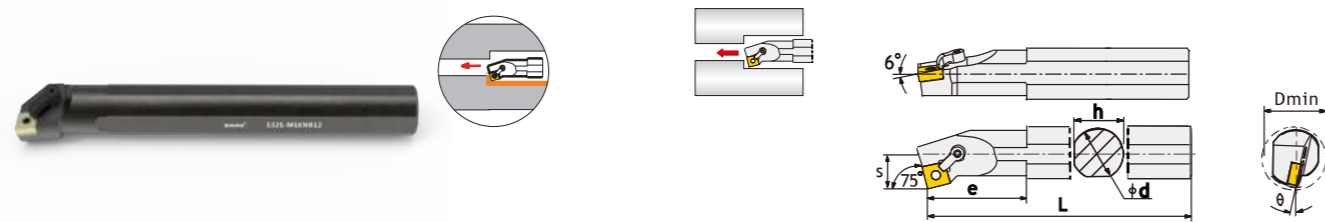
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	θ°	e						
S25R-MVQNR-16	S25R-MVQNL-16	○	○	32	25	23	200	17	12°	40		×	MSP510	MCL1814		
S32S-MVQNR-6	S32S-MVQNL-16	○	○	42	32	30	250	22	17°	40	DN..1604..		MD1603	MSP513	MCL2414	WS161025
S40T-MVQNR-16	S40T-MVQNL-16	○	○	50	40	37	300	27	15°	50						S2.5 S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° MSKNR/L



右手刀图例

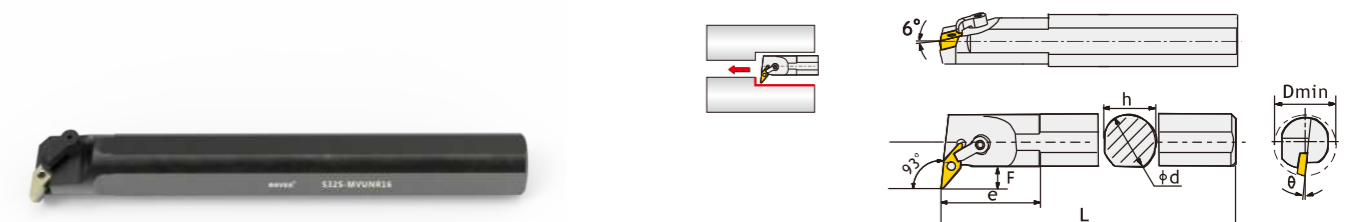
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	θ°	e						
S20Q-MSKNR-12	S20Q-MSKNL-12	○	○	26	20	18	180	13	15°	31		×	MSP613	MCL1810	WS061020	
S25R-MSKNR-12	S25R-MSKNL-12	○	○	32	25	23	200	17	12°	35	DN..1204..		MSP617	MCL1814	WS161025	S2.5
S32S-MSKNR-12	S32S-MSKNL-12	○	○	40	32	30	250	22	17°	40		MD1204				S3
S40T-MSKNR-12	S40T-MSKNL-12	○	○	50	40	37	300	27	15°	50						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MVUNR/L



右手刀图例

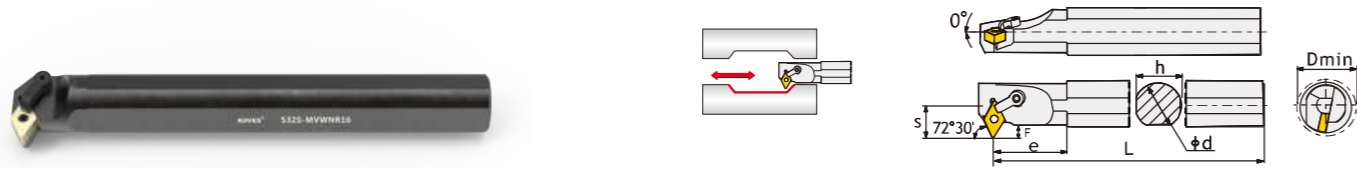
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e	F						
S25R-MVUNR-16	S25R-MVUNL-16	○	○	36	25	23	200	20	40	8		×	MSP510			
S32S-MVUNR-16	S32S-MVUNL-16	○	○	42	32	30	250	23	40	8	VN..1604..		MV1603	MSP513	MCL1814	WS061025
S40T-MVUNR-16	S40T-MVUNL-16	○	○	50	40	37	300	27	55	10						S2/S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

72° 30' MVWNR/L



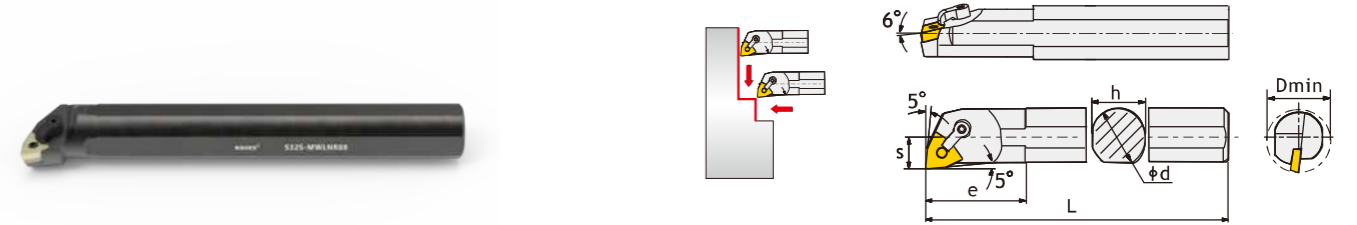
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						配件 Accessories						
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e	F	刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
S25R-MVWNR-16	S25R-MVWNL-16	○	○	36	25	23	200	22	35	10		×	MSP510			
S32S-MVWNR-16	S32S-MVWNL-16	○	○	48	32	30	250	25	40	10	VN..1604..	MV1603	MSP513	MCL1814	WS061025	S2/S3
S40T-MVWNR-16	S40T-MVWNL-16	○	○	56	40	37	300	29	45	11						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° MWLNR/L



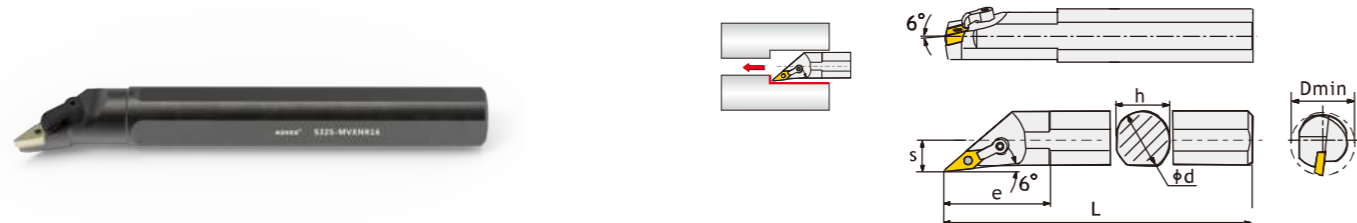
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						配件 Accessories						
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e	F	刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
S20Q-MWLNR-08	S20Q-MWLNL-08	○	○	25	20	18	180	14.5	36			×	MSP613	MCL1810	WS061020	S2.5
S25R-MWLNR-08	S25R-MWLNL-08	○	○	32	25	23	200	17	40		WN..0804..					S3
S32S-MWLNR-08	S32S-MWLNL-08	○	○	41	32	30	250	22	50							
S40T-MWLNR-08	S40T-MWLNL-08	○	○	50	40	37	300	27	55							

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

96° MVXNR/L



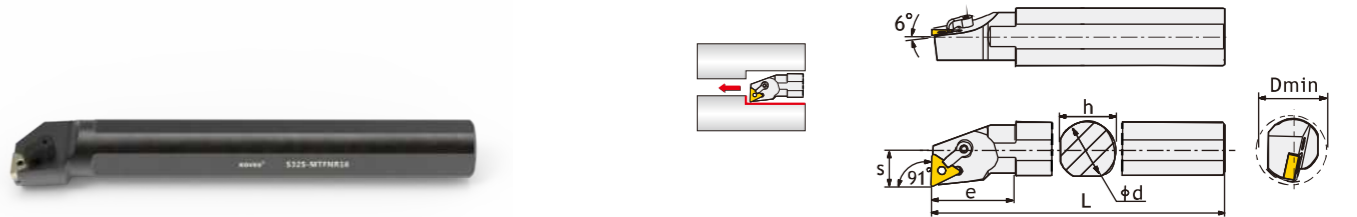
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						配件 Accessories						
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e	F	刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
S25R-MVXNR-16	S25R-MVXNL-16	○	○	32	25	23	200	17	55			×	MSP510			
S32S-MVXNR-16	S32S-MVXNL-16	○	○	42	32	30	250	21	60		VN..1604..	MV1603	MSP513	MCL2414	WS061025	S2/S3
S40T-MVXNR-16	S40T-MVXNL-16	○	○	50	40	38	300	25	68							

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

91° MTFNR/L



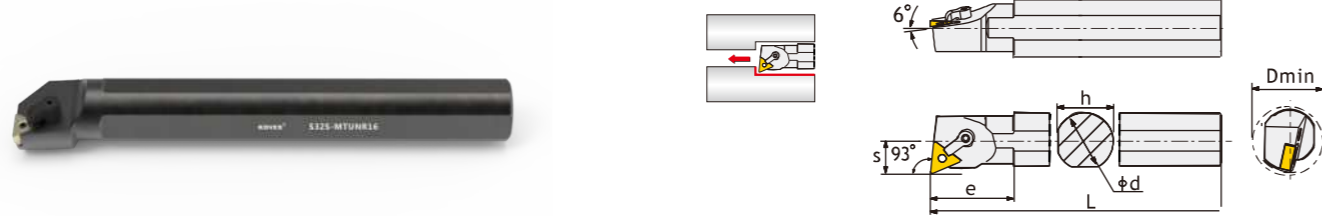
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						配件 Accessories						
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e	F	刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
S20Q-MTFNR-16	S20Q-MTFNL-16	○	○	25	20	18	180	13	35			×	MSP510	MCL1810	WS061020	S2
S25R-MTFNR-16	S25R-MTFNL-16	○	○	32	25	23	200	16	40		TN..1604..					S3
S32S-MTFNR-16	S32S-MTFNL-16	○	○	40	32	30	250	20	45							
S40T-MTFNR-16	S40T-MTFNL-16	○	○	50	40	37	300	25	50							

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° MTUNR/L



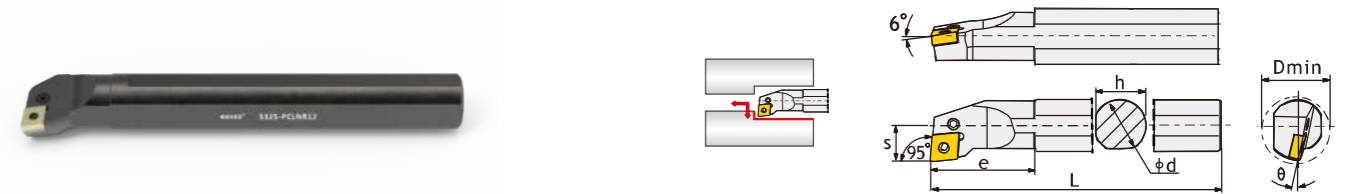
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e						
S20Q-MTUNR-16	S20Q-MTUNL-16	○	○	25	20	18	180	13	31	TN..1604..	×	MSP650	MCL1810	WS061020	
S25R-MTUNR-16	S25R-MTUNL-16	○	○	32	25	23	200	17	35						S2
S32S-MTUNR-16	S32S-MTUNL-16	○	○	40	32	30	250	22	40						S3
S40T-MTUNR-16	S40T-MTUNL-16	○	○	50	40	37	300	23	50		MT1603	MSP613	MCL1814	WS061025	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° PCLNR/L



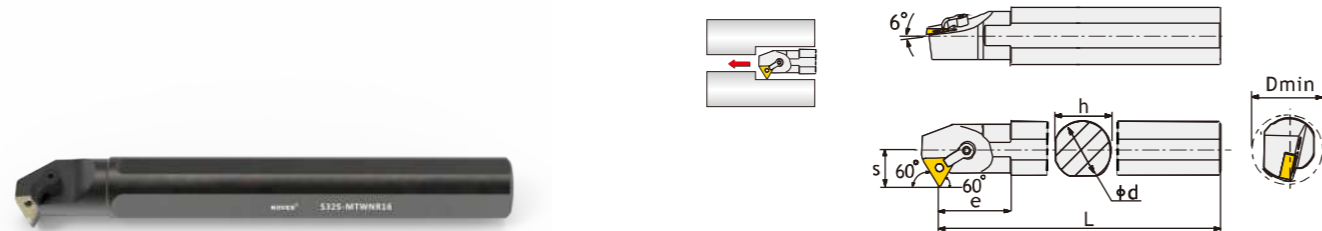
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	刀垫 Shim	螺钉 Screw	杠杆 Lever	档垫 Shim pin	扳手 Hex wrench	
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	θ°	e							
S16Q-PCLNR-09	S16Q-PCLNL-09	○	○	20	16	15	180	10	-12°	30	CN..0903..	-	VHX0609	LV3C	-	S2	
S20Q-PCLNR-09	S20Q-PCLNL-09	○	○	25	20	18	180	12	-11°	30							
S25R-PCLNR-09	S25R-PCLNL-09	○	○	32	25	23	200	15	-10°	35							
S20Q-PCLNR-12	S20Q-PCLNL-12	○	○	25	20	18	180	13	-11°	35							
S25R-PCLNR-12	S25R-PCLNL-12	○	○	32	25	23	200	15	12°	40							
S32S-PCLNR-12	S32S-PCLNL-12	○	○	44	32	30	250	22	-10°	50	CN..1204..						
S40T-PCLNR-12	S40T-PCLNL-12	○	○	54	40	37	300	24	-10°	55			PC12318	VHX0821	LV4	SP4	S3
S50U-PCLNR-12	S50U-PCLNL-12	○	○	63	50	47	350	27	-10°	58							
S50U-PCLNR-19	S50U-PCLNL-19	○	○	63	50	47	350	32	-10°	70	CN..1906..	PC19476	VHX1027	LV6	SP6	S4	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

60° MTWNR/L



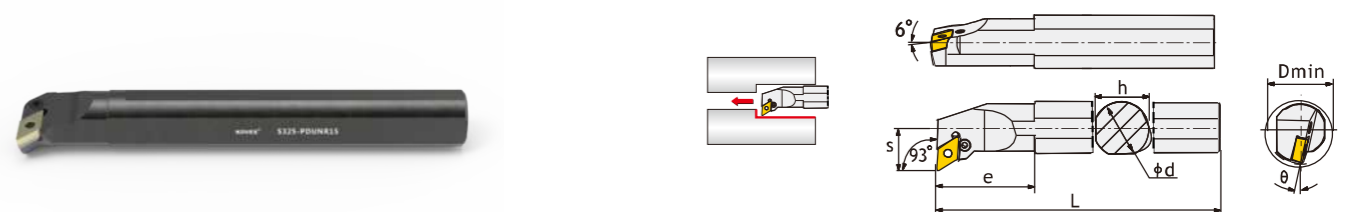
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	销钉 Lock pin	压板 Clamp	双头螺栓 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	e						
S20Q-MTWNR-16	S20Q-MTWNL-16	○	○	27	20	18	180	15	31	TN..1604..	×	MSP510	MCL1810	WS061020	
S25R-MTWNR-16	S25R-MTWNL-16	○	○	32	25	23	200	17	35						S2
S32S-MTWNR-16	S32S-MTWNL-16	○	○	40	32	30	250	22	42						S3
S40T-MTWNR-16	S40T-MTWNL-16	○	○	50	40	38	300	27	50		MT1603	MSP513	MCL1814	WS061025	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° PDUNR/L



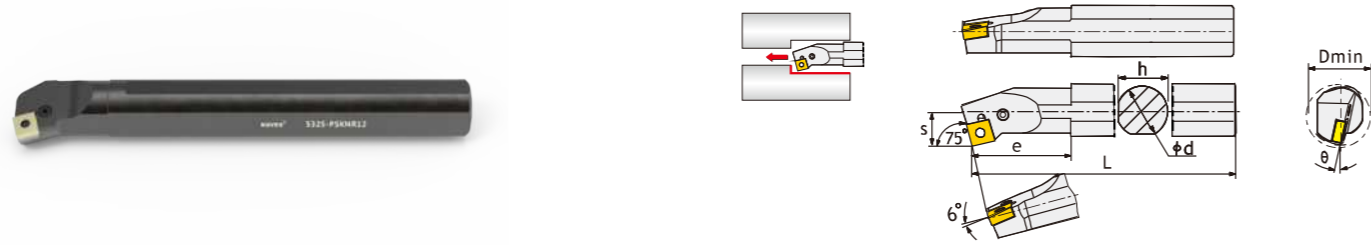
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)							刀片 Insert	刀垫 Shim	螺钉 Screw	杠杆 Lever	档垫 Shim pin	扳手 Hex wrench	
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	θ°	e							
S20Q-PDUNR-11	S20Q-PDUNL-11	○	○	25	20	18	180	13	-16°	30	CN..1104..	-	VHX0512	LV3D	-	S2	
S25R-PDUNR-11	S25R-PDUNL-11	○	○	32	25	23	200	17	-13°	35							
S32S-PDUNR-11	S32S-PDUNL-11	○	○	40	32	30	250	22	-16°	40			PD11270	VHX0617	LV3	SP3	S2.5
S32S-PDUNR-15	S32S-PDUNL-15	○	○	40	32	30	250	22	-16°	50							
S40T-PDUNR-15	S40T-PDUNL-15	○	○	50	40	37	300	27	-11°	50	DN..1506..	PD15318	VHX0821	LV4B	SP4	S3	
S32S-PDUNR15-3	S32S-PDUNL15-3	○	○	40	32	30	250	22	-16°	50	DN..1504..						
S40T-PDUNR15-3	S40T-PDUNL15-3	○	○	50	40	37	300	27	-11°	50			PD12318	VHX0821	LV4	SP4	S3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° PSKNR/L



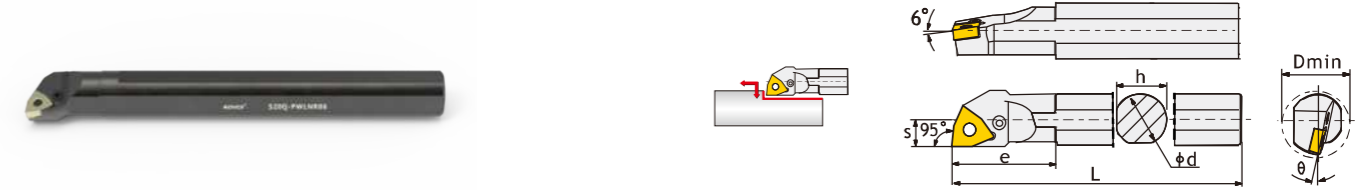
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	螺钉 Screw	杠杆 Lever	档垫 Shim pin	扳手 Hex wrench	
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	θ°	e						
S25R-PSKNR-12	S25R-PSKNL-12	○	○	32	25	23	200	17	-12°	42	SN..1204..	-	VHX0831	LV4B	-	S2.5
S32S-PSKNR-12	S32S-PSKNL-12	○	○	44	32	30	250	22	-10°	45		PS12318	VHX0821	LV4	SP4	S3
S40T-PSKNR-12	S40T-PSKNL-12	○	○	54	40	37	300	27	-10°	50						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° PWLNR/L



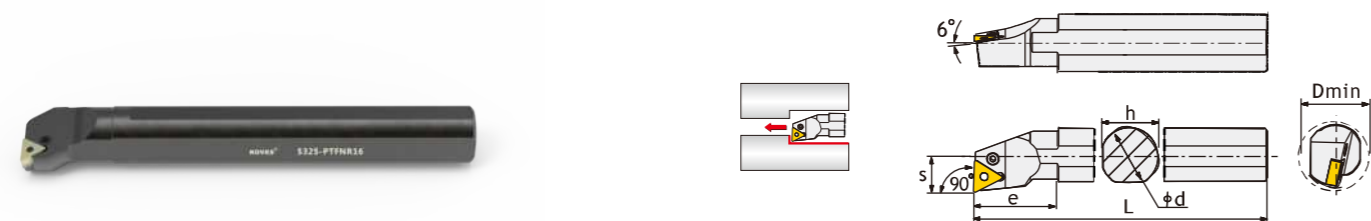
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	螺钉 Screw	杠杆 Lever	档垫 Shim pin	扳手 Hex wrench	
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	θ°	e						
S16Q-PWLNR-06	S16Q-PWLNL-06	○	○	20	16	15	180	11	-13°	25						
S20Q-PWLNR-06	S20Q-PWLNL-06	○	○	25	20	18	180	13	-13°	32	WN..1604..	-	VHX0512	LV3B	-	S2
S36R-PWLNR-06	S36R-PWLNL-06	○	○	32	25	23	200	17	-13°	35						
S20Q-PWLNR-08	S20Q-PWLNL-08	○	○	25	20	18	180	13	-13°	32						
S25R-PWLNR-08	S25R-PWLNL-08	○	○	32	25	23	200	17	-13°	45	WN..0804..	-	VHX0613	LV4A	-	S2.5
S32S-PWLNR-08	S32S-PWLNL-08	○	○	40	32	30	250	22	-13°	50		PW08318	VHX0821	LV4	SP4	S3
S40T-PWLNR-08	S40T-PWLNL-08	○	○	50	40	42	300	30	-13°	55						

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

90° PTFNR/L



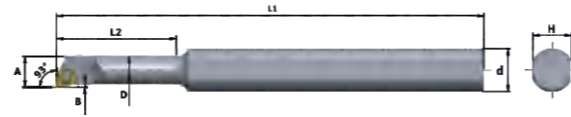
右手刀图例
Legend of right hand knife

型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	刀垫 Shim	螺钉 Screw	杠杆 Lever	档垫 Shim pin	扳手 Hex wrench	
右刀 Right hand	左刀 Left hand	R	L	Dmin	Φd	h	L	s	θ°	e						
S16Q-PTFNR-11	S16Q-PTFNL-11	○	○	20	16	15	180	11		28						
S20Q-PTFNR-11	S20Q-PTFNL-11	○	○	25	20	18	180	13		31	TN..1103..	-	VHX0509	LV2	-	S2
S25R-PTFNR-11	S25R-PTFNL-11	○	○	32	25	23	200	17		35						
S25R-PTFNR-16	S25R-PTFNL-16	○	○	32	25	23	200	17		42						
S32S-PTFNR-16	S32S-PTFNL-16	○	○	44	32	30	250	22		50	TN..1604..		VHX0512	LV3B	-	S2
S40T-PTFNR-16	S40T-PTFNL-16	○	○	54	40	37	300	27		55		PT16476	VHX0613	LV3	SP3	S2.5

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° SWUBR(小径)



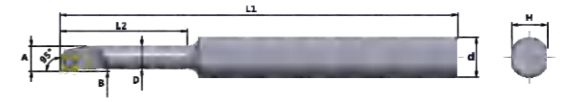
(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench		
右刀 Right hand	左刀 Left hand	R	L	∅d	L2	L1	A					B	
H1005K-SWUBR06-20	H1005K-SWUBR06-20	●	○	05	10	20	125	5.4	0.4	6	WB--0201 WB--0601	M2.0	T6
H1006K-SWUBR06-24	H1006K-SWUBR06-24	●	○	06	10	24	125	6.4	0.4	7			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

95° SCLCR(小径)



(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench		
右刀 Right hand	左刀 Left hand	R	L	d	∅d	L2	L1					A	B
H1004K-SCLCR03-16	H1004K-SCLCL03-16	●	○	04	10	16	125	4.4	0.4	5	CC..03S	M1.6	T6
H1005K-SCLCR03-20	H1005K-SCLCL03-20	●	○	05	10	20	125	5.4	0.4	6			
H1005K-SCLCR04-20	H1005K-SCLCL04-20	●	○	05	10	20	125	5.4	0.4	6	CC..04T	M2.0	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



(CARBIDE)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	∅d	L1	A	B				
C05H-SWUBR-06	C05H-SWUBL-06	●	○	05	100	5.4	0.4	5.8	WB--0601 WB--0201	M2.0	T6
C06J-SWUBR-06	C06J-SWUBL-06	●	○	06	110	6.4	0.4	6.8			
C07K-SWUBR-06	C07K-SWUBL-06	●	○	07	125	7.4	0.4	7.8			
C08K-SWUBR-06	C08K-SWUBL-06	●	○	08	125	8.5	0.5	9.0			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

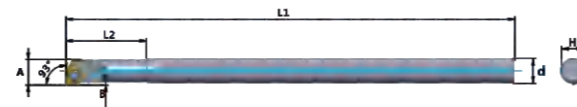


(CARBIDE)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	∅d	L1	A	B				
C04G-SCLCR-03	C04G-SCLCL-03	●	○	04	90	4.5	0.5	4.8	CC..03S1	M1.6	T6
C05H-SCLCR-03	C05H-SCLCL-03	●	○	05	100	5.5	0.5	5.8			
C06J-SCLCR-03	C06J-SCLCL-03	●	○	06	110	6.5	0.5	6.8	CC..04T	M2.0	
C05H-SCLCR-04	C05H-SCLCL-04	●	○	05	100	5.5	0.5	5.8			
C06J-SCLCR-04	C06J-SCLCL-04	●	○	06	110	6.5	0.5	6.8			
C07K-SCLCR-04	C07K-SCLCL-04	●	○	07	125	7.5	0.5	7.8			
C08K-SCLCR-04	C08K-SCLCL-04	●	○	08	125	8.5	0.5	8.8			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

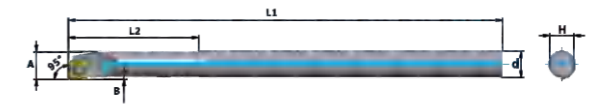


(CARBIDEWITH COOLANT中心出水)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	∅d	L1	A	B				
E05H-SWUBR-06	E05H-SWUBL-06	●	○	05	100	5.4	0.4	5.8	WB--0601 WB--0201	M2.0	T6
E06J-SWUBR-06	E06J-SWUBL-06	●	○	06	110	6.4	0.4	6.8			
E07K-SWUBR-06	E07K-SWUBL-06	●	○	07	125	7.4	0.4	7.8			
E08K-SWUBR-06	E08K-SWUBL-06	●	○	08	125	8.5	0.5	9.0			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



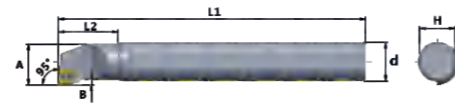
(CARBIDEWITH COOLANT中心出水)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	∅d	L1	A	B				
E04G-SCLCR-03	E04G-SCLCL-03	●	○	04	90	4.5	0.5	4.8	CC..03S1	M1.6	T6
E05H-SCLCR-03	E05H-SCLCL-03	●	○	05	100	5.5	0.5	5.8			
E06J-SCLCR-03	E06J-SCLCL-03	●	○	06	110	6.5	0.5	6.8	CC..04T	M2.0	
E06J-SCLCR-04	E06J-SCLCL-04	●	○	06	110	6.5	0.5	6.8			
E07K-SCLCR-04	E07K-SCLCL-04	●	○	07	125	7.5	0.5	7.8			
E08K-SCLCR-04	E08K-SCLCL-04	●	○	08	125	8.5	0.5	8.8			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

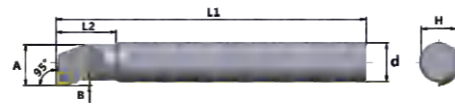
95° SCLC R/L



型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F	a				
S08H-SCLCR-06	S08H-SCLCL-06	●	○	8	100	20	5	0.5	10	CCMT CCGT	BFTX02506	TRX08
S10K-SCLCR-06	S10K-SCLCL-06	●	○	10	125	20	6	0.5	12			
S12M-SCLCR-06	S12M-SCLCL-06	●	○	12	150	20	7	0.5	14			
S12M-SCLCR-09	S12M-SCLCL-09	●	○	12	150	23	9	0.5	14			
S14N-SCLCR-09	S14N-SCLCL-09	●	○	14	160	25	9	0.5	18			
S14N-SCLCR-06	S14N-SCLCL-06	●	○	14	160	25	9	0.5	18			
S16N-SCLCR-09	S16N-SCLCL-09	●	○	16	160	27	11	1	18			
S20Q-SCLCR-09	S20Q-SCLCL-09	●	○	20	180	27	13	1	23			
S25R-SCLCR-09	S25R-SCLCL-09	●	○	25	200	40	15.5	1	28			
S32S-SCLCR-09	S32S-SCLCL-09	●	○	32	250	45	18	1.5	36			
S32S-SCLCR-12	S32S-SCLCL-12	●	○	32	250	45	18	1.5	36			
S40T-SCLCR-12	S40T-SCLCL-12	●	○	40	300	45	18	1.5	44			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

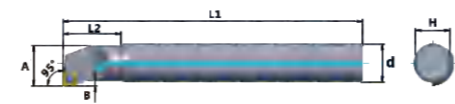


(CARBIDE)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L	A	B				
C08K-SCLCR-06	C08K-SCLCL-06	●	○	8	125	09	1.0	10	CCGT CCMT	BFTX02506	TRX08
C10K-SCLCR-06	C10K-SCLCL-06	●	○	10	125	11	1.0	12			
C10M-SCLCR-06	C10M-SCLCL-06	●	○	10	150	11	1.0	12			
C12M-SCLCR-06	C12M-SCLCL-06	●	○	12	150	13	1.0	14			
C12Q-SCLCR-06	C12Q-SCLCL-06	●	○	12	180	13	1.0	14			
C12M-SCLCR-09	C12M-SCLCL-09	●	○	12	150	13.5	1.5	15			
C16Q-SCLCR-09	C16Q-SCLCL-09	●	○	16	180	17	1.0	18			
C16R-SCLCR-09	C16R-SCLCL-09	●	○	16	200	17	1.0	18			
C20R-SCLCR-09	C20R-SCLCL-09	●	○	20	200	21	1.0	22			
C20S-SCLCR-09	C20S-SCLCL-09	●	○	20	250	21	2.5	25			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



(CARBIDE WITH COOLANT 中心出水)

型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L	A	B					
E08K-SCLCR-06	E08K-SCLCL-06	●	○	8	125	09	1.0	10	CCGT CCMT	BFTX02506	TRX08	
E10K-SCLCR-06	E10K-SCLCL-06	●	○	10	125	11	1.0	12				
E10M-SCLCR-06	E10M-SCLCL-06	●	○	10	150	11	1.0	12				
E12M-SCLCR-06	E12M-SCLCL-06	●	○	12	150	13	1.0	14				
E12Q-SCLCR-06	E12Q-SCLCL-06	●	○	12	180	13	1.0	14				
E12M-SCLCR-09	E12M-SCLCL-09	●	○	12	150	13.5	1.5	15				
E16Q-SCLCR-09	E16Q-SCLCL-09	●	○	16	180	17	1.0	18				
E16R-SCLCR-09	E16R-SCLCL-09	●	○	16	200	17	1.0	18				
E20R-SCLCR-09	E20R-SCLCL-09	●	○	20	200	21	1.0	22				
E20S-SCLCR-09	E20S-SCLCL-09	●	○	20	250	21	2.5	25				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° SCKCR/L



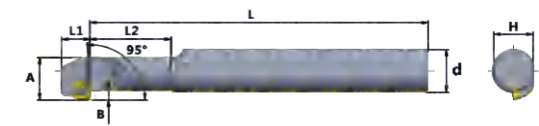
(STEEL)

型号 Model		库存 Stock		尺寸 Size (mm)			Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench			
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2							
S08H-SCKCR-06	S08H-SCKCL-06	●	○	8	5	100	10	CCMT CCGT	BFTX02506	TRX08			
S10K-SCKCR-06	S10K-SCKCL-06	●	○	10	6	125	12						
S12M-SCKCR-06	S12M-SCKCL-06	●	○	12	7	150	14						
S12M-SCKCR-09	S12M-SCKCL-09	●	○	12	8	150	16						
S16Q-SCKCR-09	S16Q-SCKCL-09	●	○	16	9	180	18						
S20R-SCKCR-09	S20R-SCKCL-09	●	○	20	12.5	200	25						
S25R-SCKCR-09	S25R-SCKCL-09	●	○	25	16	200	32						
											09T3..	BFTX0407	TRX15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° SCZCR/L



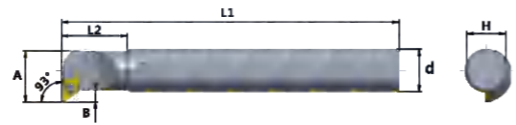
(STEEL)

型号 Model		库存 Stock		尺寸 Size (mm)						Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench			
右刀 Right hand	左刀 Left hand	R	L	Ød	L	L1	L2	F	S							
S08H-SCZCR-06	S08H-SCZCL-06	●	○	08	100	10	16	7	3	13	CCMT	BFTX02506	TRX08			
S10K-SCZCR-06	S10K-SCZCL-06	●	○	10	125	10	20	8	3	12						
S12M-SCZCR-06	S12M-SCZCL-06	●	○	12	150	10	24	9	3	10						
S16N-SCZCR-09	S16N-SCZCL-09	●	○	16	160	15	32	12.5	4.5	9						
S20Q-SCZCR-09	S20Q-SCZCL-09	●	○	20	180	15	40	14.5	4.5	7						
S25R-SCZCR-09	S25R-SCZCL-09	●	○	25	200	15	50	17	4.5	7						
														09T3..	BFTX0407	TRX15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° SDUCR/L



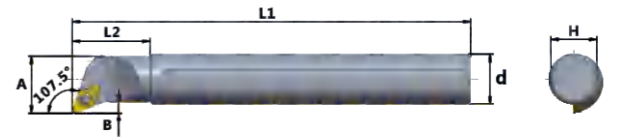
(STEEL)

型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench	
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F	a					S
S10K-SDUCR-07	S10K-SDUCL-07	●	○	10	125	20	8.3	0.5	3.3	14	0702..	BFTX02506	TRX08
S12M-SDUCR-07	S12M-SDUCL-07	●	○	12	150	25	9.3	0.5	3.3	16			
S16Q-SDUCR-07	S16Q-SDUCL-07	●	○	16	180	25	11.3	1	3.3	20	11T3..	BFTX0407	TRX15
S20Q-SDUCR-11	S20Q-SDUCL-11	●	○	20	180	30	16.1	1	6.1	26			
S25R-SDUCR-11	S25R-SDUCL-11	●	○	25	200	40	18.6	1	6.1	32	DCMW	BFTX02506	TRX08
S32S-SDUCR-11	S32S-SDUCL-11	●	○	32	250	50	22.1	1	6.1	40			
S40T-SDUCR-11	S40T-SDUCL-11	●	○	40	300	60	27	1	6.1	50	DCMT	BFTX02506	TRX08

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

107.5° SDQCR/L

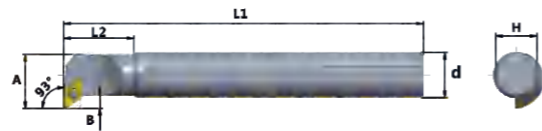


(STEEL)

型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench	
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F	a					S
S10K-SDQCR-07	S10K-SDQCL-07	●	○	10	125	20	8	0.5	3.0	13	0702..	BFTX02506	TRX08
S12M-SDQCR-07	S12M-SDQCL-07	●	○	12	150	20	9.5	0.5	3.5	16			
S16Q-SDQCR-07	S16Q-SDQCL-07	●	○	16	180	30	12	1	4	20	11T3..	BFTX0407	TRX15
S20Q-SDQCR-11	S20Q-SDQCL-11	●	○	20	180	40	14.5	1	4.5	25			
S25R-SDQCR-11	S25R-SDQCL-11	●	○	25	200	40	17	1	6	32	DCMT	BFTX02506	TRX08
S32S-SDQCR-11	S32S-SDQCL-11	●	○	32	250	50	22	1	6	40			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

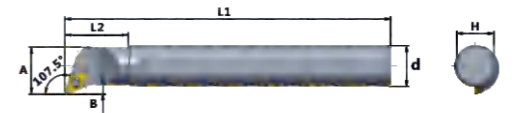


(CARBIDE)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L	A	B				
C08K-SDUCR-07	C08K-SDUCL-07	●	○	08	125	11	3.0	12	0702..	M2.5	T8
C10M-SDUCR-07	C10M-SDUCL-07	●	○	10	150	13	3.0	14			
C12Q-SDUCR-07	C12Q-SDUCL-07	●	○	12	180	15	3.0	16	11T3..	M4.0	T15
C14Q-SDUCR-07	C14Q-SDUCL-07	●	○	14	180	17	3.0	18			
C16R-SDUCR-07	C16R-SDUCL-07	●	○	16	200	19	3.0	20	DCMW	BFTX02506	TRX08
C16R-SDUCR-11	C16R-SDUCL-11	●	○	16	250	20	4.0	21			
C20S-SDUCR-11	C20S-SDUCL-11	●	○	20	300	24	4.0	25	DCMT	BFTX02506	TRX08

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

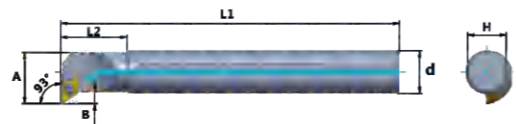


(CARBIDE)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L	A	B				
C08K-SDQCR-07	C08K-SDQCL-07	●	○	08	125	11	3.0	12	0702..	BFTX02506	TRX08
C10M-SDQCR-07	C10M-SDQCL-07	●	○	10	150	13	3.0	14			
C12Q-SDQCR-07	C12Q-SDQCL-07	●	○	12	180	15	3.0	16	11T3..	BFTX0407	TRX15
C14Q-SDQCR-07	C14Q-SDQCL-07	●	○	14	180	17	3.0	18			
C16R-SDQCR-07	C16R-SDQCL-07	●	○	16	200	19	3.0	20	DCMW	BFTX02506	TRX08
C16R-SDQCR-11	C16R-SDQCL-11	●	○	16	200	20	4.0	21			
C20S-SDQCR-11	C20S-SDQCL-11	●	○	20	250	24	4.0	25	DCMT	BFTX02506	TRX08

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

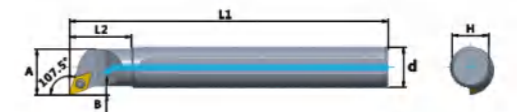


(CARBIDEWITH COOLANT中心出水)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L	A	B				
E08K-SDUCR-07	E08K-SDUCL-07	●	○	08	125	11	3.0	12	0702..	M2.5	T8
E10M-SDUCR-07	E10M-SDUCL-07	●	○	10	150	13	3.0	14			
E12Q-SDUCR-07	E12Q-SDUCL-07	●	○	12	180	15	3.0	16	11T3..	M4.0	T15
E14Q-SDUCR-07	E14Q-SDUCL-07	●	○	14	180	17	3.0	18			
E16R-SDUCR-07	E16R-SDUCL-07	●	○	16	200	19	3.0	20	DCMW	BFTX02506	TRX08
E16R-SDUCR-11	E16R-SDUCL-11	●	○	16	250	20	4.0	21			
E20S-SDUCR-11	E20S-SDUCL-11	●	○	20	300	24	4.0	25	DCMT	BFTX02506	TRX08

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



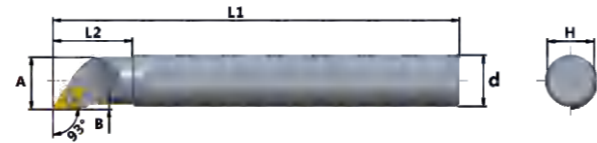
(CARBIDEWITH COOLANT中心出水)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L	A	B				
E08K-SDQCR-07	E08K-SDQCL-07	●	○	08	125	11	3.0	12	0702..	BFTX02506	TRX08
E10M-SDQCR-07	E10M-SDQCL-07	●	○	10	150	13	3.0	14			
E12Q-SDQCR-07	E12Q-SDQCL-07	●	○	12	180	15	3.0	16	11T3..	BFTX0407	TRX15
E14Q-SDQCR-07	E14Q-SDQCL-07	●	○	14	180	17	3.0	18			
E16R-SDQCR-07	E16R-SDQCL-07	●	○	16	200	19	3.0	20	DCMW	BFTX02506	TRX08
E16R-SDQCR-11	E16R-SDQCL-11	●	○	16	200	20	4.0	21			
E20S-SDQCR-11	E20S-SDQCL-11	●	○	20	250	24	4.0	25	DCMT	BFTX02506	TRX08

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

122° SDJCR/L



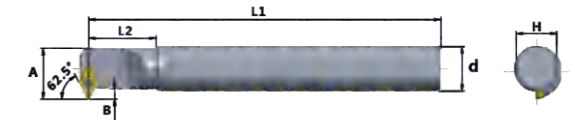
(STEEL)

型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	Standard corner radius	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F	H					
S10K-SDJCR-07	S10K-SDJCL-07	●	○	10	125	18	6	9	12	0.2	DCMT DCGT	0702.. BFTX02506 TRX08 11T3.. BFTX0407 TRX15	
S12M-SDJCR-07	S12M-SDJCL-07	●	○	12	150	25	7	11	14				
S16N-SDJCR-07	S16N-SDJCL-07	●	○	16	160	30	9	15	18				
S20Q-SDJCR-11	S20Q-SDJCL-11	●	○	20	180	40	11.5	18	22				
S25R-SDJCR-11	S25R-SDJCL-11	●	○	25	200	45	14	23	28				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

62.5° SDWCR/L



(STEEL)

型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	Standard corner radius	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F	S					
S12M-SDWCR-07	S12M-SDWCL-07	●	○	12	150	3	6	4.5	17	0.2	DCMT DCGT	0702.. BFTX02506 TRX08 11T3.. BFTX0407 TRX15	
S16N-SDWCR-07	S16N-SDWCL-07	●	○	16	160	3	7	4.5	21				
S20Q-SDWCR-07	S20Q-SDWCL-07	●	○	20	180	3	9	4.5	25				
S25R-SDWCR-11	S25R-SDWCL-11	●	○	25	200	4.7	11.5	4.5	30				
S32S-SDWCR-11	S32S-SDWCL-11	●	○	32	250	4.7	14	4.5	37				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

(CARBIDE)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	Standard corner radius	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B					
C08K-SDJCR-07	C08K-SDJCL-07	●	○	08	125	09	1.0	10	0.2	DCMT DCGT	0702.. BFTX02506 TRX08 11T3.. BFTX0407 TRX15	
C10M-SDJCR-07	C10M-SDJCL-07	●	○	10	150	11	1.0	12				
C12Q-SDJCR-07	C12Q-SDJCL-07	●	○	12	180	13	1.0	14				
C14Q-SDJCR-07	C14Q-SDJCL-07	●	○	14	180	15	1.0	16				
C16R-SDJCR-07	C16R-SDJCL-07	●	○	16	200	17	1.0	18				
C16R-SDJCR-11	C16R-SDJCL-11	●	○	16	200	17	1.0	18				
C20S-SDJCR-11	C20S-SDJCL-11	●	○	20	250	21	1.0	22				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

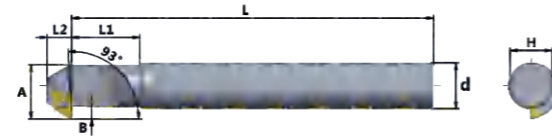
(CARBIDE)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	Standard corner radius	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B					
C08K-SDWCR-07	C08K-SDWCL-07	●	○	08	125	11	3.0	12	0.2	DCMT DCGT	0702.. BFTX02506 TRX08 11T3.. BFTX0407 TRX15	
C10M-SDWCR-07	C10M-SDWCL-07	●	○	10	150	13	3.0	14				
C12Q-SDWCR-07	C12Q-SDWCL-07	●	○	12	180	16	3.0	16				
C14Q-SDWCR-07	C14Q-SDWCL-07	●	○	14	180	18	3.0	18				
C16R-SDWCR-07	C16R-SDWCL-07	●	○	16	200	20	3.0	20				
C20S-SDWCR-11	C20S-SDWCL-11	●	○	20	250	25	5.0	27				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

3° SDZCR/L



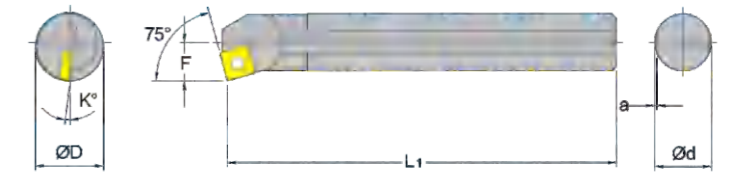
(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)						Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench	
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	L3	F	S					
S10K-SDZCR-07	S10K-SDZCL-07	●	○	10	125	20.5	9.5	8.3	3.5	14	DCGT	0702..	BFTX02506	TRX08
S12M-SDZCR-07	S12M-SDZCL-07	●	○	12	150	20.5	10.5	9.3	3.5	15.5				
S16Q-SDZCR-07	S16Q-SDZCL-07	●	○	16	180	35	12.5	11.4	4.5	16	DCMT	11T3..	BFTX0407	TRX15
S20R-SDZCR-11	S20R-SDZCL-11	●	○	20	200	40	15	15.1	6.5	20				
S25R-SDZCR-11	S25R-SDZCL-11	●	○	25	200	50	15	17.6	6.5	25				
S32S-SDZCR-11	S32S-SDZCL-11	●	○	32	250	60	15	21.1	6.5	32				
S40T-SDZCR-11	S40T-SDZCL-11	●	○	40	300	75	15	25.1	6.5	40				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

75° SSKCR/L

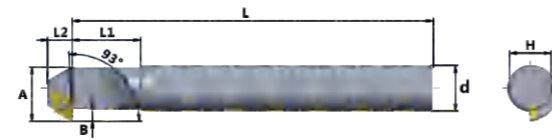


(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)			Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2				
S12M-SSKCR-09	S12M-SSKCL-09	●	○	12	8	150	16	SCMT 09T3...	BFTX0407	TRX15
S16Q-SSKCR-09	S16Q-SSKCL-09	●	○	16	11	180	20			
S20R-SSKCR-09	S20R-SSKCL-09	●	○	20	13	200	25			
S25R-SSKCR-09	S25R-SSKCL-09	●	○	25	17	200	30			
S32S-SSKCR-09	S32S-SSKCL-09	●	○	32	21	250	40			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

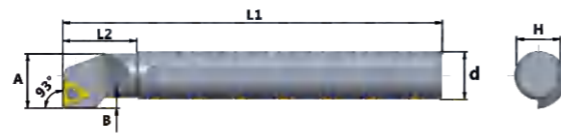


型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench	
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B					
C08K-SDZCR-07	C08K-SDZCL-07	●	○	08	125	12	4.0	13	DCGT	0702..	BFTX02506	TRX08
C10M-SDZCR-07	C10M-SDZCL-07	●	○	10	150	14	4.0	15				
C12Q-SDZCR-07	C12Q-SDZCL-07	●	○	12	180	16	4.0	17	DCMT	11T3..	BFTX0407	TRX15
C14Q-SDZCR-07	C14Q-SDZCL-07	●	○	14	180	18	4.0	19				
C16R-SDZCR-11	C16R-SDZCL-11	●	○	16	200	20	4.0	21				
C20S-SDZCR-11	C20S-SDZCL-11	●	○	20	250	25	5.0	26				
C25T-SDZCR-11	C25T-SDZCL-11	●	○	25	300	30	5.0	32				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° STUCR/L

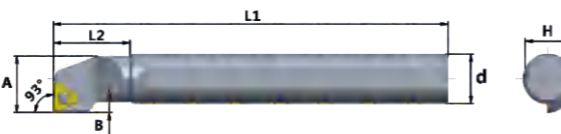


STEEL钢

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench		
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F						
S08H-STUCR-09	S08H-STUCL-09	●	○	8	100	15	6	0.5	13	0902..	BFTX02506	TRX08	
S10K-STUCR-09	S10K-STUCL-09	●	○	10	125	16	7	0.5	12				
S12M-STUCR-11	S12M-STUCL-11	●	○	12	150	20	9	0.5	10				
S16N-STUCR-11	S16N-STUCL-11	●	○	16	160	25	11	1	8				
S20Q-STUCR-11	S20Q-STUCL-11	●	○	20	180	32	13	1	7				
S25R-STUCR-16	S25R-STUCL-16	●	○	25	200	40	17	1	5				
S32S-STUCR-16	S32S-STUCL-16	●	○	32	250	48	20	1	5				
S40T-STUCR-16	S40T-STUCL-16	●	○	40	300	50	24	1	5				
								16T3..	BFTX0407				TRX15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

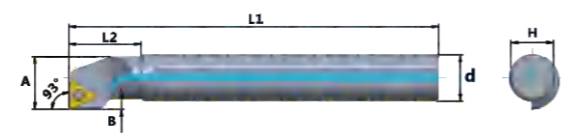


CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
C08K-STUCR-09	C08K-STUCL-09	●	○	8	125	09	1.0	10	0902..	BFTX02506	TRX08
C10K-STUCR-09	C10K-STUCL-09	●	○	10	125	11	1.0	12			
C12M-STUCR-11	C12M-STUCL-11	●	○	12	150	13	1.0	14			
C12Q-STUCR-11	C12Q-STUCL-11	●	○	12	180	13	1.0	14			
C16Q-STUCR-11	C16Q-STUCL-11	●	○	16	180	15	1.0	18			
C16R-STUCR-11	C16R-STUCL-11	●	○	16	200	17	1.0	18			
C20R-STUCR-11	C20R-STUCL-11	●	○	20	200	21	1.0	22			
C20S-STUCR-11	C20S-STUCL-11	●	○	20	250	21	1.0	22			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



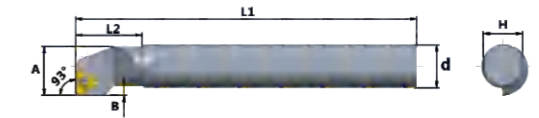
CARBIDE钨钢出水

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
E08K-STUCR-09	E08K-STUCL-09	●	○	8	125	09	1.0	10	0902..	BFTX02506	TRX08
E10K-STUCR-09	E10K-STUCL-09	●	○	10	125	11	1.0	12			
E12M-STUCR-11	E12M-STUCL-11	●	○	12	150	13	1.0	14			
E12Q-STUCR-11	E12Q-STUCL-11	●	○	12	180	13	1.0	14			
E16Q-STUCR-11	E16Q-STUCL-11	●	○	16	180	15	1.0	18			
E16R-STUCR-11	E16R-STUCL-11	●	○	16	200	17	1.0	18			
E20R-STUCR-11	E20R-STUCL-11	●	○	20	200	21	1.0	22			
E20S-STUCR-11	E20S-STUCL-11	●	○	20	250	21	1.0	22			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° STUBR/L

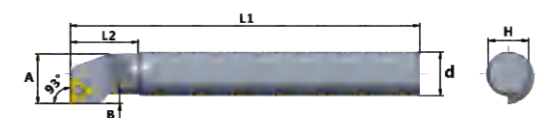


STEEL钢

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench		
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F						
S08H-STUBR-06	S08H-STUBL-06	●	○	8	100	20	4	-12	8	TBGT	0601..	BFTX0206	TPX06
S08H-STUPR-08	S08H-STUPL-08	●	○	8	100	18	5	-8	10	TPGH	0802..		
S10K-STUPR-11	S10K-STUPL-11	●	○	10	125	23	6	-5	12			BFTX0306	
S12M-STUPR-11	S12M-STUPL-11	●	○	12	150	23	7	-4	14	TPGH	1103..		TPX10
S16N-STUPR-11	S16N-STUPL-11	●	○	16	160	25	9	-2	18	TPMH		BFTX0310	
S20Q-STUPR-11	S20Q-STUPL-11	●	○	20	180	30	12.5	0	23	TPMT			
S20Q-STUPR-16	S20Q-STUPL-16	●	○	20	180	30	12.5	0	25		1604..	BFTX0407	TPX15
S25R-STUPR-16	S25R-STUPL-16	●	○	25	200	30	12.5	0	28				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

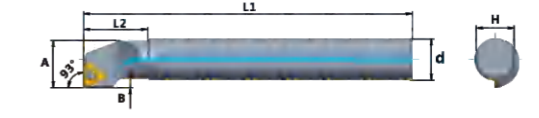


CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
C06J-STUBR-06	C06J-STUBL-06	○		6	110	6.5	0.5	6.8	0902..	BFTX0206	TPX06
C07K-STUBR-06	C07K-STUBL-06	○		7	125	7.5	0.5	7.8			
C08K-STUBR-06	C08K-STUBL-06	○		8	125	8.5	0.5	8.8			
C10M-STUBR-06	C10M-STUBL-06	○		10	150	10.5	0.5	11			
C07K-STUPR-08	C07K-STUPL-08	○		7	125	08	1.0	09			
C08K-STUPR-08	C08K-STUPL-08	○		8	125	09	1.0	10			
C08K-STUPR-09	C08K-STUPL-09	○		8	125	09	1.0	10			
C10K-STUPR-09	C10K-STUPL-09	○		10	125	11	1.0	12			
C10M-STUPR-09	C10M-STUPL-09	○		10	150	11	1.0	12			
C12Q-STUPR-09	C12Q-STUPL-09	○		12	180	13	1.0	14			
C10K-STUPR-11	C10K-STUPL-11	○		10	125	11	1.0	12			
C10M-STUPR-11	C10M-STUPL-11	○		10	150	11	1.0	12			
C12M-STUPR-11	C12M-STUPL-11	○		12	150	13	1.0	14			
C12Q-STUPR-11	C12Q-STUPL-11	○		12	180	13	1.0	14			
C14Q-STUPR-11	C14Q-STUPL-11	○		14	180	15	1.0	16			
C16R-STUPR-11	C16R-STUPL-11	○		16	200	17	1.0	18			
C18S-STUPR-11	C18S-STUPL-11	○		18	250	19	1.0	20			
C20R-STUPR-11	C20R-STUPL-11	○		20	200	21	1.0	22			
C20S-STUPR-11	C20S-STUPL-11	○		20	250	21	1.0	22			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



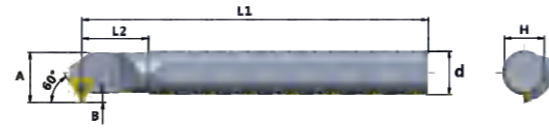
CARBIDE钨钢出水

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
E06J-STUBR-06	E06J-STUBL-06	●	○	6	110	6.5	0.5	07	0902..	BFTX0206	TPX06
E08K-STUBR-06	E08K-STUBL-06	●	○	8	125	8.5	0.5	09			
E08K-STUPR-09	E08K-STUPL-09	●	○	8	125	09	1.0	10			
E10M-STUPR-09	E10M-STUPL-09	●	○	10	150	11	1.0	12			
E12Q-STUPR-11	E12Q-STUPL-11	●	○	12	180	13	1.0	14			
E14Q-STUPR-11	E14Q-STUPL-11	●	○	14	180	15	1.0	16			
E16R-STUPR-11	E16R-STUPL-11	●	○	16	200	17	1.0	18			
E20S-STUPR-11	E20S-STUPL-11	●	○	20	250	21	1.0	22			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

60° STWBR/L
60° STWCR/L

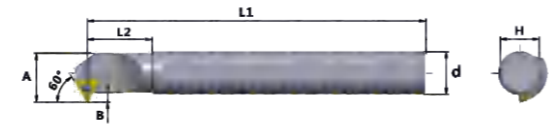


(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	F	L1	K°				
S08H-STWCR-09	S08H-STWCL-09	●	○	8	6	100	13	10	TCMT 0902..		
S10K-STWCR-11	S10K-STWCL-11	●	○	10	6	125	13	12	TCMT 1102..	BFTX02506	TRX08
S12M-STWCR-11	S12M-STWCL-11	●	○	12	8	150	10	16			
S16N-STWCR-11	S16N-STWCL-11	●	○	16	10	160	7	20	TCMT 16T3..	BFTX0407	TRX15
S20Q-STWCR-11	S20Q-STWCL-11	●	○	20	12.5	180	7	25			
S20Q-STWCR-16	S20Q-STWCL-16	●	○	20	12.5	180	7	25			
S25R-STWCR-16	S25R-STWCL-16	●	○	25	17	200	5	32			
S32S-STWCR-16	S32S-STWCL-16	●	○	32	22	250	3	40			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

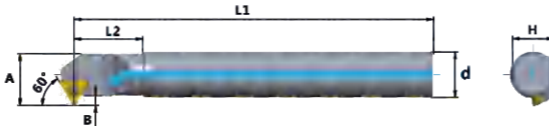


CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
C06J-STWBR-06	C06J-STWBL-06	●	○	6	110	7.2	1.2	08	TBGT 0601..	BFTX0206	TPX06
C07K-STWBR-06	C07K-STWBL-06	●	○	7	125	8.3	1.3	09	TCGT 0902..	M2.2	T7
C08K-STWCR-09	C08K-STWCL-09	●	○	8	125	10	2.0	11			
C10M-STWCR-11	C10M-STWCL-11	●	○	10	150	13	3.0	14	TCMT 1102..	BFTX02506	TRX08
C12Q-STWCR-11	C12Q-STWCL-11	●	○	12	180	15	3.0	16			
C14Q-STWCR-11	C14Q-STWCL-11	●	○	14	180	17	3.0	18			
C16R-STWCR-11	C16R-STWCL-11	●	○	16	200	19	3.0	20			
C20S-STWCR-16	C20S-STWCL-16	●	○	20	250	24	4.0	26	16T3..	M4.0	T15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



CARBIDE 钨钢出水

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
E06J-STWBR-06	E06J-STWBL-06	●	○	6	110	7.2	1.2	08	TBGT 0601..	BFTX0206	TPX06
E07K-STWBR-06	E07K-STWBL-06	●	○	7	125	8.3	1.3	09	TCGT 0902..	M2.2	T7
E08K-STWCR-09	E08K-STWCL-09	●	○	8	125	10	2.0	11			
E10M-STWCR-11	E10M-STWCL-11	●	○	10	150	13	3.0	14	TCMT 1102..	BFTX02506	TRX08
E12Q-STWCR-11	E12Q-STWCL-11	●	○	12	180	15	3.0	16			
E14Q-STWCR-11	E14Q-STWCL-11	●	○	14	180	17	3.0	18			
E16R-STWCR-11	E16R-STWCL-11	●	○	16	200	19	3.0	20			
E20S-STWCR-16	E20S-STWCL-16	●	○	20	250	24	4.0	26	16T3..	M4.0	T15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

52° SVJCR/L
52° SVJBR/L

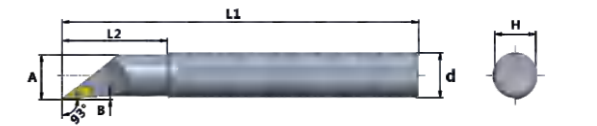


(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	刀垫 Shim	档垫 Shim pin	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	L2	F						
S12M-SVJCR-08	S12M-SVJCL-08	●	○	12	150	26	2	16	0802..	-	-	BFTX0205	TRX06
S16Q-SVJCR-11	S16Q-SVJCL-11	●	○	16	180	36	2	18	VCMT 1103..	-	-	BFTX02506	TRX08
S20Q-SVJCR-11	S20Q-SVJCL-11	●	○	20	180	37.5	2	25					
S25R-SVJCR-11	S25R-SVJCL-11	●	○	25	200	45	3.5	30	VCGT 1604..	SSV32	BCP141	BFTX03511	TRX15
S32R-SVJCR-16	S32R-SVJCL-16	●	○	32	200	60	3.5	40					
S40S-SVJCR-16	S40S-SVJCL-16	●	○	20	250	75	4.5	50					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

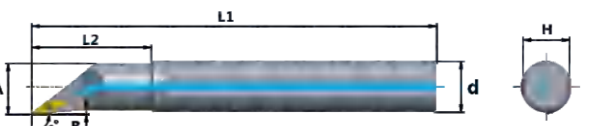


CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
C08K-SVJCR-08	C08K-SVJCL-08	●	○	08	125	09	1.0	10	0802..	BFTX02206	T7
C10M-SVJCR-11	C10M-SVJCL-11	●	○	10	150	11	1.0	12	VCGT 1103..	BFTX02506	T8
C12Q-SVJCR-11	C12Q-SVJCL-11	●	○	12	180	13	1.0	14			
C14Q-SVJCR-11	C14Q-SVJCL-11	●	○	14	180	15	1.0	16	VCMT 1604..	BFTX04010	T15
C16R-SVJCR-11	C16R-SVJCL-11	●	○	16	200	17	1.0	18			
C20S-SVJCR-16	C20S-SVJCL-16	●	○	20	250	21	1.0	22			
C25T-SVJCR-16	C25T-SVJCL-16	●	○	25	300	27	2.0	29			
C32U-SVJCR-16	C32U-SVJCL-16	●	○	32	350	34	2.0	36			
C40V-SVJCR-16	C40V-SVJCL-16	●	○	40	400	42	2.0	44			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



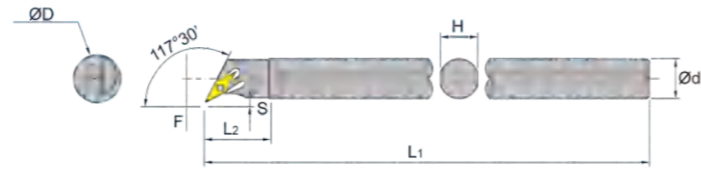
CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
E08K-SVJBR-08	E08K-SVJBL-08	●	○	08	125	09	1.0	10	0802..	BFTX02206	T7
E10M-SVJBR-11	E10M-SVJBL-11	●	○	10	150	11	1.0	12	VBGT 1103..	BFTX02506	T8
E12Q-SVJBR-11	E12Q-SVJBL-11	●	○	12	180	13	1.0	14			
E14Q-SVJBR-11	E14Q-SVJBL-11	●	○	14	180	15	1.0	16	VBMT 1604..	BFTX04010	T15
E16R-SVJBR-11	E16R-SVJBL-11	●	○	16	200	17	1.0	18			
E20S-SVJBR-16	E20S-SVJBL-16	●	○	20	250	21	1.0	22			
E25T-SVJBR-16	E25T-SVJBL-16	●	○	25	300	27	2.0	29			
E32U-SVJBR-16	E32U-SVJBL-16	●	○	32	350	34	2.0	36			
E40V-SVJBR-16	E40V-SVJBL-16	●	○	40	400	42	2.0	44			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

117.5° SVQCR/L
117.5° SVQBR/L

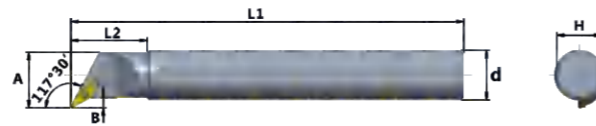


(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	刀片 Insert	刀垫 Shim	档垫 Shim pin	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	D	L1	L2	F	S						
S12MSVQCR-11	S12MSVQCL-11	●	○	12	150	28	9.5	3.5	16					
S16QSVQCR-11	S16QSVQCL-11	●	○	16	180	28	4	4	20	1103..	-	BFTX02506	TRX08	
S20QSVQCR-16	S20QSVQCL-16	●	○	20	180	40	6.5	6.5	27	VCMT	-	-	-	
S25RSVQCR-16	S25RSVQCL-16	●	○	28	200	40	6.5	6.5	32	VCGT	-	-	-	
S32SSVQCR-16	S32SSVQCL-16	●	○	32	250	50	6	6	40	1604..	-	BFTX03511	TRX15	
S40TSVQCR-16	S40TSVQCL-16	●	○	40	300	60	7	7	50		SSV32	BCP141		

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

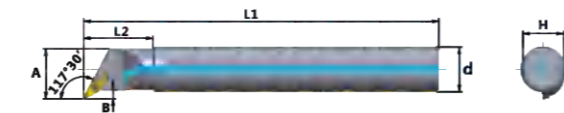


CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
C08K-SVQCR-08	C08K-SVQCL-08	●	○	08	125	11	3.0	12			
C10M-SVQCR-08	C10M-SVQCL-08	●	○	10	150	13	3.0	14	0802..	BFTX02206	T7
C12Q-SVQCR-11	C12Q-SVQCL-11	●	○	12	180	15	3.0	16			
C14Q-SVQCR-11	C14Q-SVQCL-11	●	○	14	180	17	3.0	18			
C16R-SVQCR-11	C16R-SVQCL-11	●	○	16	200	19	3.0	20	1103..	BFTX02506	T8
C20S-SVQCR-11	C20S-SVQCR-11	●	○	20	250	24	4.0	25			
C25T-SVQCR-16	C25T-SVQCR-16	●	○	25	300	31	6.0	33			
C32U-SVQCR-16	C32U-SVQCR-16	●	○	32	350	39	7.0	42	1604..	BFTX04010	T15
C40V-SVQCR-16	C40V-SVQCR-16	●	○	40	400	49	9.0	52			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
E08K-SVQBR-08	E08K-SVQBL-08	●	○	08	125	11	3.0	12			
E10M-SVQBR-08	E10M-SVQBL-08	●	○	10	150	13	3.0	14	0802..	BFTX02206	T7
E12Q-SVQBR-11	E12Q-SVQBL-11	●	○	12	180	15	3.0	16			
E14Q-SVQBR-11	E14Q-SVQBL-11	●	○	14	180	17	3.0	18			
E16R-SVQBR-11	E16R-SVQBL-11	●	○	16	200	19	3.0	20	1103..	BFTX02506	T8
E20S-SVQBR-11	E20S-SVQBR-11	●	○	20	250	24	4.0	25			
E25T-SVQBR-16	E25T-SVQBR-16	●	○	25	300	31	6.0	33			
E32U-SVQBR-16	E32U-SVQBR-16	●	○	32	350	39	7.0	42	1604..	BFTX04010	T15
E40V-SVQBR-16	E40V-SVQBR-16	●	○	40	400	49	9.0	52			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

93° SVUCR/L
93° SVUBR/L

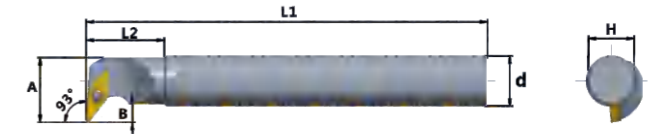


(STEEL钢)

型号 Model		库存 Stock		尺寸 Size (mm)					Min Cutting Diameter 最小加工直径	刀片 Insert	刀垫 Shim	档垫 Shim pin	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	D	L1	L2	F	S						
S12M-SVUCR-08	S12M-SVUCL-08	●	○	12	150	34	11	5	16					
S16Q-SVUCR-11	S16Q-SVUCL-11	●	○	16	180	33	14.5	7	20	1103..	-	-	BFTX02506	TRX08
S20Q-SVUCR-11	S20Q-SVUCL-11	●	○	20	180	43	17	7	25	VCMT	-	-	-	-
S25R-SVUCR-16	S25R-SVUCL-16	●	○	25	200	40	20.5	8	34	VCGT	-	-	-	-
S32S-SVUCR-16	S32S-SVUCL-16	●	○	32	250	50	23.5	8.5	40				BFTX03511	TRX15
S40T-SVUCR-16	S40T-SVUCL-16	●	○	40	300	60	29.5	10	50		SSV32	BCP141		

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

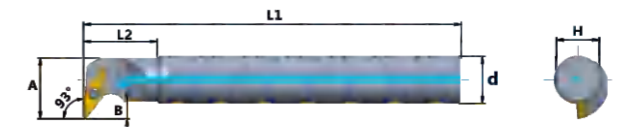


CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
C10M-SVUCR-08	C10M-SVQCL-08	●	○	10	150	13	3.0	14			
C12Q-SVUCR-08	C12Q-SVQCL-08	●	○	12	180	15	3.0	16	0802..	BFTX02206	T7
C14Q-SVUCR-11	C14Q-SVQCL-11	●	○	14	180	17	3.0	18			
C16R-SVUCR-11	C16R-SVQCL-11	●	○	16	200	19	3.0	20	1103..	BFTX02506	T8
C20S-SVUCR-11	C20S-SVQCL-11	●	○	20	250	24	4.0	25			
C25T-SVUCR-11	C25T-SVQCL-11	●	○	25	300	30	5.0	32			
C25T-SVUCR-16	C25T-SVQCL-16	●	○	25	300	32	7.0	34			
C32U-SVUCR-16	C32U-SVQCL-16	●	○	32	350	40	8.0	42	1604..	BFTX04010	T15
C40V-SVUCR-16	C40V-SVQCL-16	●	○	40	400	50	10	55			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



CARBIDE

型号 Model		库存 Stock		尺寸 Size (mm)				Min Cutting Diameter 最小加工直径	刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Ød	L1	A	B				
E10M-SVUCR-08	E10M-SVQBL-08	●	○	10	150	13	3.0	14			
E12Q-SVUCR-08	E12Q-SVQBL-08	●	○	12	180	15	3.0	16	0802..	BFTX02206	T7
E14Q-SVUCR-11	E14Q-SVQBL-11	●	○	14	180	17	3.0	18			
E16R-SVUCR-11	E16R-SVQBL-11	●	○	16	200	19	3.0	20	1103..	BFTX02506	T8
E20S-SVUCR-11	E20S-SVQBL-11	●	○	20	250	24	4.0	25			
E25T-SVUCR-11	E25T-SVQBL-11	●	○	25	300	30	5.0	32			
E25T-SVUCR-16	E25T-SVQBL-16	●	○	25	300	32	7.0	34			
E32U-SVUCR-16	E32U-SVQBL-16	●	○	32	350	40	8.0	42	1604..	BFTX04010	T15
E40V-SVUCR-16	E40V-SVQBL-16	●	○	40	400	50	10	55			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

切断切槽

Cut off the grooving



H1~H24

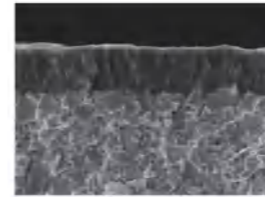
KTGFR/L KTGXFR	H01
KIGFR/L	H02
切断切槽刀片 TGF32	H03
Grooving inserts	
NS外切槽刀杆	H04
External slotted knife rod	
A-NNT内切槽刀杆	H04
Internal slotting tool rod	
NS切槽刀片	H05
Grooving inserts	
SIGE	H06
GER/L...A切槽刀片	H07
Grooving inserts	
GER/L...C	H08
GER/L...D	H08
GER/L...E	H08
WD模块式切槽刀	H09
WD Modular slotting tool	
WD刀片槽型 Chipbreakers	H09
WD Blade slot type	
外径切槽刀板 HWDR/L	H10
Outside diameter grooving knife plate	
端面切槽刀板 HFDR/L300	H11
Face slotting knife plate	
端面切槽刀板 HFDR/L400	H12
Face slotting knife plate	
端面切槽刀板 HFDR/L500	H13
Face slotting knife plate	
纵向型刀座 HDR/L	H14
Longitudinal knife holder	
横向型刀座 HER/L	H15
Transverse knife holder	
Wd外径切槽刀杆 TWDR/L	H16
Wd outside diameter cutting tool rod	
Wd内径切槽刀架 TIWDR/L	H17
Wd inner diameter slotting tool holder	
Wd端面槽刀 WDFR/L	H18
Wd face groove cutter	
切断切槽刀片 WD	H19
Cut off the slotted blade	
MGEHR/L	H20
MGIVR/L	H21
切断切槽刀片 M.MN	H22
Grooving inserts	
SPB PHS	H23
切断切槽刀片 SP	H24
Grooving inserts	

车削刀片材质简介

Turning Insert Grades

PVD涂层硬质合金系列
PVD coating carbide inserts

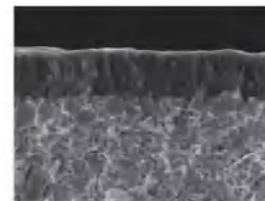
KTX 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing



高硬度的硬质合金基体,具有较好的高温红硬性,匹配通用性良好的 TiCN PVD涂层,推荐用于钢件材质的车削

With highly hard substrate, favorable red hardness and .Use TiCN PVD coating with excellent versatility
Application: Suitable for steel cutting

KVX 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing



高硬度的硬质合金基体,具有较好的高温红硬性,匹配通用性的PVD复合涂层,推荐用于不锈钢和钢件材质的车削

With highly hard substrate, favorable red hardness and excellent versatility
Application: Suitable for stainless steel and steel cutting

刀片材质一览表

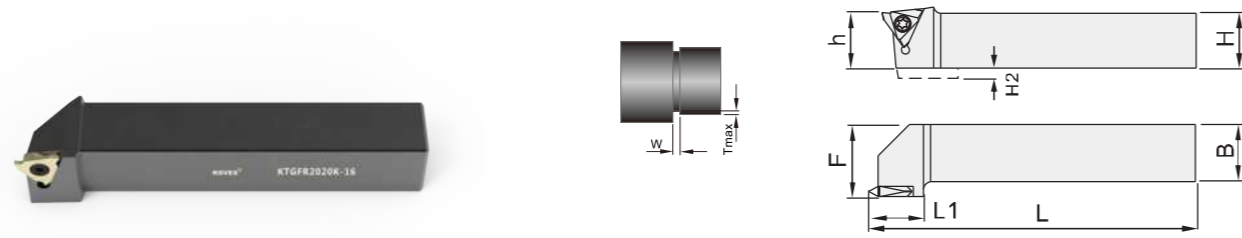
Summary of Insert Grades

切断切槽加工

For Grooving, Parting off

材质符号 Workpiece Material	P 钢 Steel					M 不锈钢 Stainless steel					K 铸铁 Cast Iron				N 有色金属 Nonferrous			S 耐热合金 NRSA				H 高硬材料 Hardness					
	ISO	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	N10	N20	N30	S01	S10	S20	S30	H01	H10	H20		
PVD 涂层硬质合金 PVD Coated Carbide		KTX							KVX			KTX															
硬质合金 Uncoated Carbide																KW20											

KTGFR/L

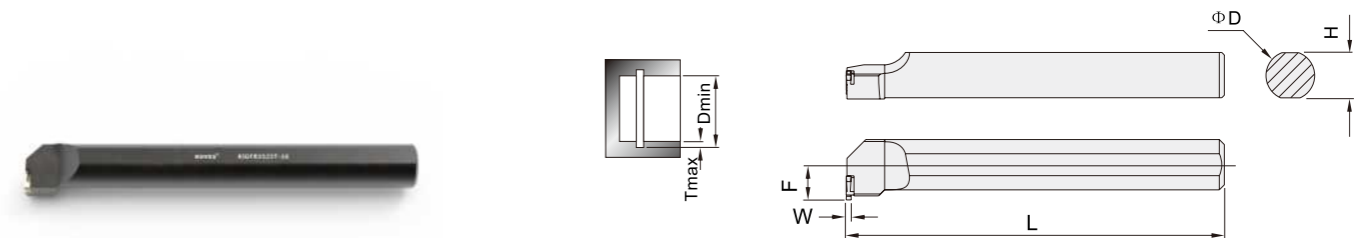


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	W	H H1	B	L	f	Dmax			
KTGFR1010K-16F	KTGFL1010K-16F	○		0.33-2.5	10	10	126	10	5.9	TGF32R/L...	ETNA0408	TW15P
KTGFR1212M-16F	KTGFL1212M-16F	○		0.33-2.5	12	12	150	12	5.9			
KTGFR1616M-16F	KTGFL1616M-16F	○		0.33-2.5	16	16	150	16	5.9			
KTGFR1010F-16	KTGFL1010F-16	○		0.33-2.5	10	10	80	12	5.9			
KTGFR1212H-16	KTGFL1212H-16	○		0.33-2.5	12	12	100	16	5.9			
KTGFR1616H-16	KTGFL1616H-16	○		0.33-2.5	16	16	100	20	5.9			
KTGFR2020K-16	KTGFL2020K-16	○		0.33-2.5	20	20	125	25	5.9			
KTGFR2525M-16	KTGFL2525M-16	○		0.33-2.5	25	25	150	20	5.9			
KTGFR2020K-22	KTGFL2020K-22	○		1.6-4.6	20	20	125	25	8.0	TGF43R/L...	ETNA0511	TW20P
KTGFR2525M-22	KTGFL2525M-22	○		1.6-4.6	25	25	150	32	8.0			
KTGFR3225P-22	KTGFL3225P-22	○		1.6-4.6	32	25	170	32	8.0			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

KIGFR/L

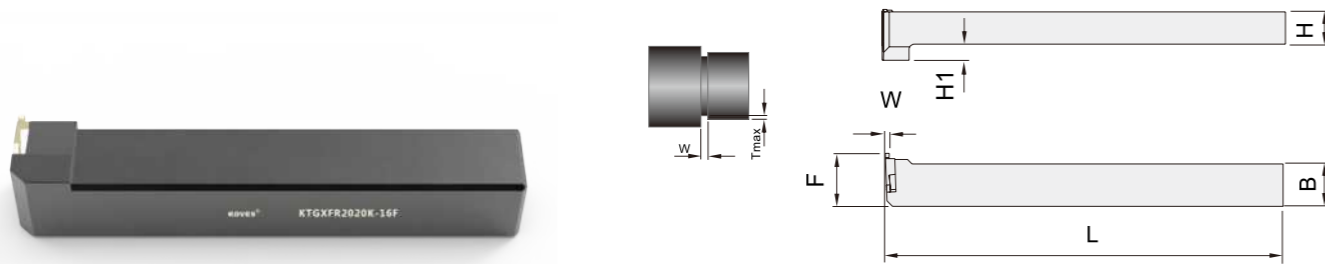


型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Clamp Screw	扳手 Wrench	
右刀 Right hand	左刀 Left hand	R	L	W	D	L	F	H	Tmax				Dmin
KIGFR2016T-11	KIGFL2016T-11	○		0.33-2.0	16	170	12	14	2.0	20	TG22R/L...	ETNA0308	TW08P
KIGFR2520T-11	KIGFL2520T-11	○		0.33-2.0	20	200	14	18	2.0	25	TGF32R/L...	ETNA0408	TW15P
KIGFR3525T-16	KIGFL3525T-16	○		0.33-2.5	25	220	17.5	23	2.0-3.0	35	TGF43R/L...	ETNA0511	TW15P
KIGFR4532T-22	KIGFL4532T-22	○		1.5-4.6	32	250	22.0	30	3.6-5.0	45			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

KTGXFR



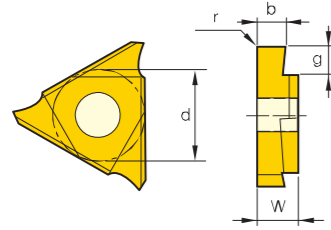
型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	W	H H1	B	L	f	Dmax			
KTGXFR1012H-16F		○		0.33-2.5	10	12	100	18	5.9	TGF32R/L...	ETNA0408	TW15P
KTGXFR1212H-16F		○		0.33-2.5	12	12	100	18	5.9			
KTGXFR1616K-16F		○		0.33-2.5	16	10	125	20	5.9			
KTGXFR2020K-16F		○		0.33-2.5	20	20	125	24	5.9			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

切槽刀片 Grooving inserts

TGF32..



型号 Model	尺寸 Size (mm)		
	d	s	d1
TGF32..	9.525	3.18	4.6

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades			KTX	KVX	KW20
		W	B	R			
	TGF32R033	0.33	0.8	0.05		●	●
	TGF32R050	0.50	1.2	0.05		●	●
	TGF32R075	0.75	2.0	0.1		●	●
	TGF32R095	0.95	2.0	0.1		●	●
	TGF32R100	1.00	2.0	0.1		●	●
	TGF32R120	1.20	2.0	0.1		●	●
	TGF32R125	1.25	2.0	0.1		●	●
	TGF32R150	1.50	2.0	0.1		●	●
	TGF32R175	1.75	2.0	0.1		●	●
	TGF32R200	2.00	2.5	0.1		●	●
TGF32R250	2.50	2.5	0.1		●	●	
	TGF32L033	0.33	0.8	0.05			
	TGF32L050	0.50	1.2	0.05			
	TGF32L075	0.75	2.0	0.1			
	TGF32L095	0.95	2.0	0.1			
	TGF32L100	1.00	2.0	0.1			
	TGF32L120	1.20	2.0	0.1			
	TGF32L125	1.25	2.0	0.1			
	TGF32L150	1.50	2.0	0.1			
	TGF32L175	1.75	2.0	0.1			
	TGF32L200	2.00	2.5	0.1			
TGF32L250	2.50	2.5	0.1				
钢 Steel					★	★	
不锈钢 Stainless Steel						★	
铸铁 Cast iron					☆	☆	
有色金属 Nonferrous Metal						★	
耐热合金 Heat Resistant Alloy					☆		
淬硬钢 Hardened Steel							

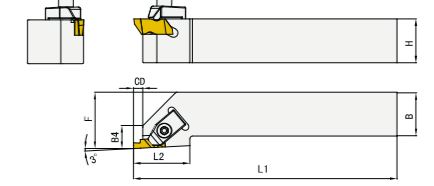
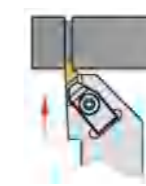
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	加工形式	切削速度推荐值 Vc(m/min) Recommended Cutting Speed			切削速度推荐值 f(mm/rev) Recommended Cutting Speed			
		KTX	KVX	KW20	0.33-0.50	0.75-0.95	1.00-1.45	1.50-2.50
					f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)
P 钢 Steel	切槽加工		80-180		0.01-0.05	0.02-0.07	0.03-0.08	0.03-0.08
	横向加工		80-180				0.03-0.06	0.03-0.06
M 不锈钢 Stainless Steel	切槽加工		60-130		0.01-0.04	0.2-0.06	0.03-0.07	0.03-0.07
	横向加工		60-130				0.02-0.05	0.02-0.05
K 铸铁 Cast iron	切槽加工			60-100	0.01-0.05	0.02-0.07	0.03-0.08	0.03-0.08
	横向加工			60-100			0.03-0.06	0.03-0.06
N 有色金属 Nonferrous metal	切槽加工			150-400	0.01-0.04	0.02-0.06	0.03-0.08	0.03-0.08
	横向加工			150-400			0.03-0.06	0.03-0.06

NS外切槽刀杆 NS External slotted knife rod

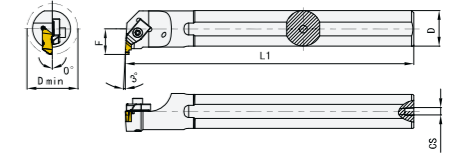


型号 Model	库存 Stock	尺寸 Size (mm)							刀片 Insert	夹持 Clamping	夹持螺钉 Clamping Screw	扳手 Wrench
		H	B	F	L1	L2	B4	CD				
NSR2020K3	●	20.0	20.0	25.0	125	32	13	5.3	NS3..R	CM72L	MS2111	L25
NSR2525M3	●	25.0	25.0	32.0	150	32	13	5.3				
NSR3225P3	○	32.0	32.0	32.0	170	32	13	5.3				
NSR3232P3	●	32.0	32.0	40.0	170	32	13	5.3				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

A-NNT内切槽刀杆 A-NNT Internal slotting tool rod



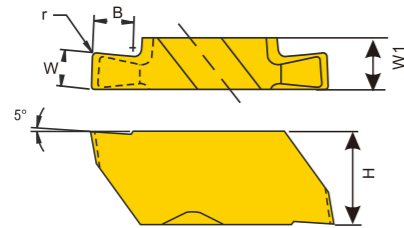
型号 Model	库存 Stock	尺寸 Size (mm)					刀片 Insert	夹持 Clamping	夹持螺钉 Clamping Screw	扳手 Wrench
		D	Dmin	L1	F	CS				
A12MNNNTOR2	○	12	18.5	150	11	1/16-27NPT	NS2..L	CM147	MS1200	L25
A16MNNNTOR2	●	16	22.0	150	11	1/8-27NPT				
A20QNNNTOR2	●	20	26.0	180	13	1/8-27NPT				
A25RNNTOR2	●	25	34.0	200	17	1/4-18NPT	NS3..L	CM73LP	MS2111	L25
A25RNNTOR3	●	25	34.0	200	17	1/4-18NPT				
A32SNNTOR3	○	32	44.0	250	22	1/4-18NPT				
A40TNNTOR3	○	40	54.0	300	27	1/4-18NPT				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

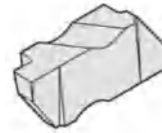
切槽刀片
Grooving inserts

NS..



型号 Model	尺寸Size (mm)	
	W1	H
NS3..	4.95	8.74
NS2..	3.81	5.56

刀片外形 Insert shape	型号 Model	尺寸 Size (mm)			KTX	KVX	KW20
		W	B	r			
	NS3100R	1.0	2.0	0.2	○	●	○
	NS3150R	1.5	3.5	0.2	○	●	○
	NS3200R	2.0	3.5	0.2	○	●	○
	NS3250R	2.5	4.0	0.2	○	●	○
	NS3300R	3.0	4.0	0.2	○	●	○
	NS3500R	3.5	6.0	0.2	○	○	○
	NS3400R	4.0	6.0	0.2	○	●	○
	NS3450R	4.5	8.0	0.2	○	●	○
	NS3500R	5.0	8.0	0.2	○	○	○
	NS2050L	0.5	2.0	0.1	○	○	○
	NS2100L	1.0	2.0	0.1	○	○	○
	NS2150L	1.5	3.5	0.2	○	○	○
	NS2200L	2.0	3.5	0.2	○	○	○
	NS3100L	1.0	2.0	0.2	○	○	○
	NS3150L	1.5	3.5	0.2	○	○	○
	NS3200L	2.0	3.5	0.2	○	○	○
	NS3250L	2.5	4.0	0.2	○	○	○
	NS3300L	3.0	4.0	0.2	○	○	○
	NS3500L	3.5	6.0	0.2	○	○	○
	NS3400L	4.0	6.0	0.2	○	○	○
	NS3450L	4.5	8.0	0.2	○	○	○
	NS3500L	5.0	8.0	0.2	○	○	○



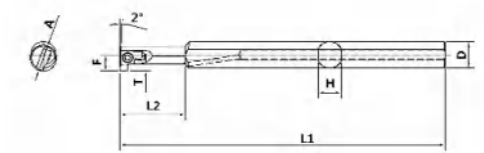
钢 Steel	★	★	
不锈钢 Stainless Steel		★	
铸铁 Cast Iron	☆	☆	
有色金属 Nonferrous Metal			★
耐热合金 Heat Resistant Alloy		☆	
淬硬钢 Hardened Steel			

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	加工形式 Processing the form	切削速度推荐值Vc(m/min) Recommended Cutting Speed			切削速度推荐值f(mm/rev) Recommended Cutting Speed					
		KTX	KVX	KW20	1.5/2.0	2.5	3.0	4.0	5.0	6.0
					f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)
P 钢 Steel	外圆加工 Cylindrical processing	50-100-130	50-100-130		0.06-0.12	0.07-0.15	0.08-0.20	0.10-0.25	0.12-0.25	0.15-0.25
	内孔端面加工 Inner hole end processing	40-70-100	40-70-100		0.05-0.10	0.06-0.10	0.07-0.12	0.08-0.14	0.10-0.16	0.10-0.18
M 不锈钢 Stainless Steel	外圆加工 Cylindrical processing		60-110-150		0.06-0.12	0.07-0.15	0.08-0.20	0.10-0.25	0.12-0.25	0.15-0.25
	内孔端面加工 Inner hole end processing		50-80-120		0.05-0.10	0.06-0.10	0.07-0.12	0.08-0.14	0.10-0.16	0.10-0.18
K 铸铁 Cast Iron	外圆加工 Cylindrical processing	50-100-130	50-100-130		0.06-0.12	0.07-0.15	0.08-0.20	0.10-0.25	0.12-0.25	0.15-0.25
	内孔端面加工 Inner hole end processing	40-70-100	40-70-100		0.05-0.10	0.06-0.10	0.07-0.12	0.08-0.14	0.10-0.16	0.10-0.18

SIGE



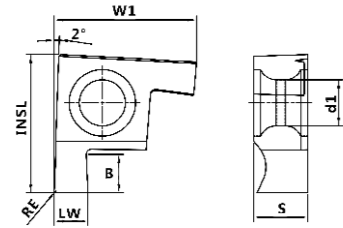
型号 Model	库存 Stock		最小 加工径 φA	尺寸 Size (mm)							夹持螺钉 Clamping Screw	扳手 Wrench	适用刀片 Apply to the blade	
	R	L		φD	H	L1	L2	F	T	φd				
SIGE% 0808A-EH	●	●	8	8	7.2	100	20	4.8	1.5	3	SB-2045TRN	FT-6	-	GER100-050AR-GER200-100AR GE1100-005A-GER200-010A
1010B-EH	●	●	10	10	9	125	20	6.2	2.2	3	SB-2255TR	-	DT-7	GE1100-005B-GE1300-020B GER100-050BR-GER200-100BR
1210B-EH	●	●	12	10	9	125	25	7	2.2	3		SB-2570TR	FT-8	-
1412C-EH	●	●	14	12	11.4	150	33	8	2.5	4	SB-3080TR		FT-10	-
1612C-EH	●	●	16	12	11.4	150	20	8.5	2.5	4		SB-4085TR	FT-15	-
1616C-EH	●	●	16	16	15	160	36	9	2.5	5				
2020D-EH	●	●	20	20	19	180		12.1	4.5	5				
2525E-EH	●	●	25	25	24	200	45	15.6	6.5	5				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 standard inventory ○ 订单生产 the order production

切槽刀片
Grooving inserts

GER/L...A



型号 Model	尺寸 Size (mm)			
	W1	INSL	s	d1
GER/L...A	6.69	6.5	2.58	2.58
GER...-AR	6.69	6.5	2.58	2.58

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades					
		CW	CDX	RE	KTX	KVX	KW20
	GER100-005A	1.00	1.5	0.05		●	●
	GER120-005A	1.20	1.5	0.05		●	●
	GER125-005A	1.25	1.5	0.05		●	●
	GER150-010A	1.50	1.5	0.1		●	●
	GER200-010A	2.00	1.5	0.1		●	●
	GEL100-005A	1.00	1.5	0.05		●	●
	GEL120-005A	1.20	1.5	0.05		●	●
	GEL125-005A	1.25	1.5	0.05		●	●
	GEL150-010A	1.50	1.5	0.1		●	●
	GEL200-010A	2.00	1.5	0.1		●	●
GER100-050AR	1.00	1.5	0.5		●	●	
GER200-100AR	2.00	1.5	1.0		●	●	
钢 Steel					★	★	
不锈钢 Stainless Steel						★	
铸铁 Cast Iron					☆	☆	
有色金属 Nonferrous Metal							★
耐热合金 Heat Resistant Alloy						☆	
淬硬钢 Hardened Steel							

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades						
		CW	CDX	RE	KTX	KVX	KW20	
	GE%125-005B	1.25	2.2	0.1		●	●	
	GE%145-010B	1.45	2.2	0.1		●	●	
	GE%150-010B	1.50	2.2	0.1		●	●	
	GE%200-010B	2.00	2.2	0.5		●	●	
	GE%250-020B	2.50	2.2	0.5		●	●	
	GE%300-020B	3.00	2.2	0.2		●	●	
	GER100-050BR	1.00	2.2	0.5		●	●	
	GER200-100BR	2.00	2.2	1.0		●	●	
	钢 Steel					★	★	
	不锈钢 Stainless Steel						★	
铸铁 Cast Iron					☆	☆		
有色金属 Nonferrous Metal							★	
耐热合金 Heat Resistant Alloy						☆		
淬硬钢 Hardened Steel								

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

GER/L...C

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades					
		CW	CDX	RE	KTX	KVX	KW20
	GE%150-010C	1.50	2.5	0.1		●	●
	GE%170-010C	1.70	2.5	0.1		●	●
	GE%185-010C	1.85	2.5	0.1		●	●
	GE%195-010C	1.95	2.5	0.1		●	●
	GE%200-010C	2.00	2.5	0.2		●	●
	GE%250-020C	2.50	2.5	0.2		●	●
	GE%300-020C	3.00	2.5	0.2		●	●
	GER200-100CR	2.00	2.5	1.0		●	●
	GER250-125CR	2.50	2.5	1.25		●	●
	GER300-150CR	3.00	2.5	1.5		●	●
钢 Steel					★	★	
不锈钢 Stainless Steel						★	
铸铁 Cast Iron					☆	☆	
有色金属 Nonferrous Metal							★
耐热合金 Heat Resistant Alloy						☆	
淬硬钢 Hardened Steel							

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

GER/L...D

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades					
		CW	CDX	RE	KTX	KVX	KW20
	GE%195-010D	1.95	3.2	0.10		●	●
	GE%200-010D	2.00	3.2	0.10		●	●
	GE%225-010D	2.25	3.2	0.10		●	●
	GE%230-020D	2.30	3.2	0.20		●	●
	GE%250-020D	2.50	3.2	0.20		●	●
	GE%275-020D	2.75	3.2	0.20		●	●
	GE%280-020D	2.80	3.2	0.20		●	●
	GER200-100DR	2.00	3.2	1.0		●	●
	GER300-150DR	3.00	4.5	1.5		●	●
	钢 Steel					★	★
不锈钢 Stainless Steel						★	
铸铁 Cast Iron					☆	☆	
有色金属 Nonferrous Metal							★
耐热合金 Heat Resistant Alloy						☆	
淬硬钢 Hardened Steel							

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

GER/L...E

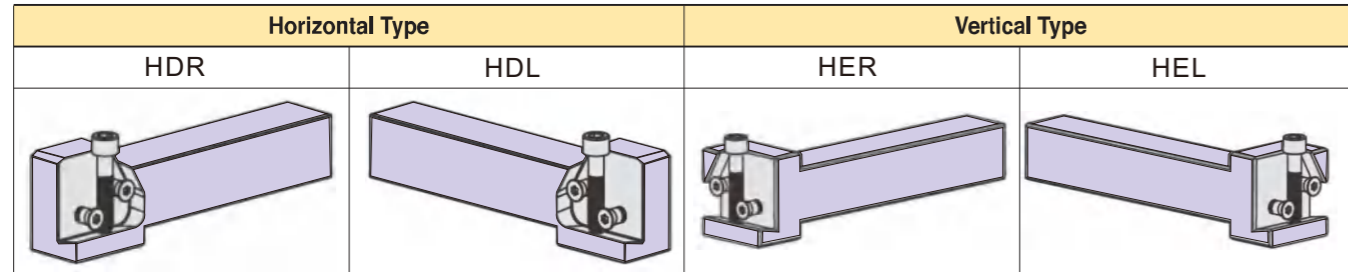
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades						
		CW	CDX	RE	KTX	KVX	KW20	
	GE%200-010E	2.00	3.2	0.1		●	●	
	GE%225-010E	2.25	3.2	0.1		●	●	
	GE%230-020E	2.30	3.2	0.1		●	●	
	GE%250-020E	2.50	4.5	0.2		●	●	
	GE%275-020E	2.75	4.5	0.2		●	●	
	GE%280-020E	2.80	4.5	0.2		●	●	
	GE%300-020E	3.00	4.5	0.2		●	●	
	GE%330-020E	3.30	4.5	0.2		●	●	
	GE%350-020E	3.50	5.5	0.2		●	●	
	GE%400-020E	4.00	5.5	0.2		●	●	
	GE%430-020E	4.30	5.5	0.2		●	●	
	GE%450-020E	4.50	6.5	0.2		●	●	
	GE%460-020E	4.60	6.5	0.2		●	●	
	钢 Steel					★	★	
	不锈钢 Stainless Steel						★	
	铸铁 Cast Iron					☆	☆	
有色金属 Nonferrous Metal							★	
耐热合金 Heat Resistant Alloy						☆		
淬硬钢 Hardened Steel								

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

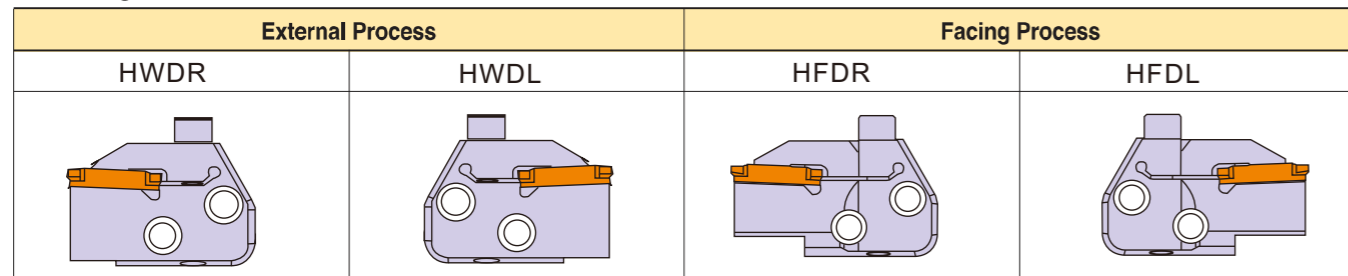
WD模块式切槽刀

WD Modular part-off and grooving tools

Holder



Cartridge



因为采用独立刀座设计,与现存一体式刀具相比: 适用性和经济性得到提高!
可以替换的刀座: 可根据工件类型改变安装方式减少刀具切削成本30%左右
强大稳固的夹紧力: 刀片和刀座安装可同时进行安装和更换很方便
稳固的安装系统: 安装简便,加紧力强。

Because of using independent tool holder design, Compared with existing integrated tool: The Applicability and economy are improved!
Replace able cutter holder: You can change the type of installation according to the workpiece, the cutting tool costs can be reduced by about 30%
Strong and Stable clamping force: the carbide insert and cutter holder can be installed at the same time, installation and replacement are very convenient

WD刀片槽型

Chipbreakers>>

F



非常流畅的切削形状与低切削力
用于低中强度范围内的所有材料
产生积屑瘤小
适用于薄壁工件
Very soft cutting geometry
For low to medium strength materials
with low built-up edge tendency

T



非常好的切削槽和收缩形状的断屑槽
用于钢件和不锈钢加工
普遍适用各类加工环境
甚至用于薄壁零件
Very good swarf control and formation
Universal geometry for steel and stainless steel
machining ,also for thin-walled components

M

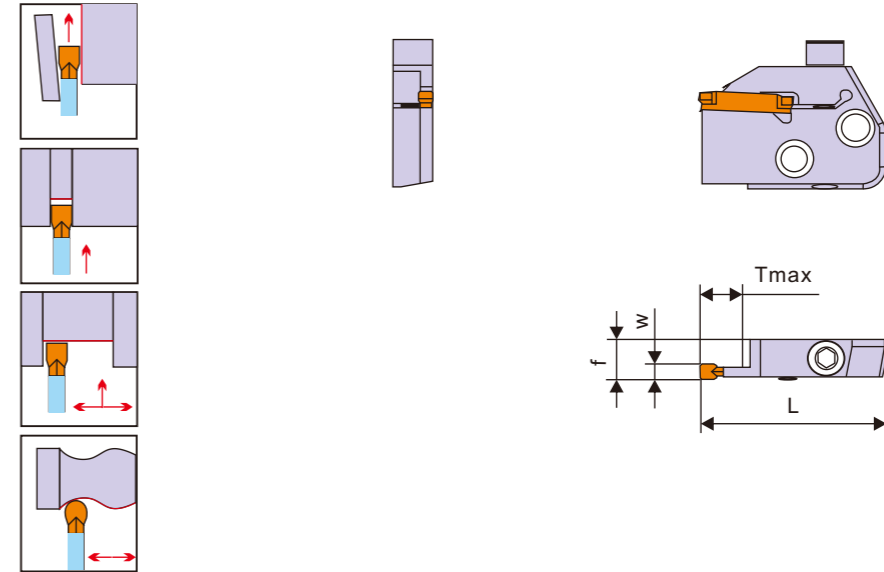


采用负角及倒角的几何设计
用于再中高强度内的所有材料
普遍用于钢件, 不锈钢和铸铁
在稳定的条件下首选槽型
Geometry with small negative chamfer for
medium to high strength materials
suitable for all steels(stainless and cast)
first choice where cutting conditions are solid

WD模块式切槽刀

WD Modular part-off and grooving tools

外径切槽刀板HWDR/L...
Blades >> For external



型号 Model	刀片 Inserts	尺寸与材质 Size and Grades				适合刀座 Apply for	重量 (kg)
		W	Tmax	L	f		
HWDR200-10	WD22N2.00..	2	10	46	10.3	HDR/HEL	0.10
HWDL200-10	WD22N2.00..	2	10	46	10.3	HDL/HER	0.10
HWDR200-22	WD22N2.00..	2	22	58	10.3	HDR/HEL	0.10
HWDL200-22	WD22N2.00..	2	22	58	10.3	HDL/HER	0.10
HWDR250-10	WD22N2.50..	2.5	10	46	10.3	HDR/HEL	0.10
HWDL250-10	WD22N2.50..	2.5	10	46	10.3	HDL/HER	0.10
HWDR250-22	WD22N2.50..	2.5	22	58	10.3	HDR/HEL	0.10
HWDL250-22	WD22N2.50..	2.5	22	58	10.3	HDL/HER	0.10
HWDR300-10	WD22N3.00..	3	10	46	10.3	HDR/HEL	0.10
HWDL300-10	WD22N3.00..	3	10	46	10.3	HDL/HER	0.10
HWDR300-22	WD22N3.00..	3	22	58	10.3	HDR/HEL	0.10
HWDL300-22	WD22N3.00..	3	22	58	10.3	HDL/HER	0.10
HWDR400-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HWDL400-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HWDR400-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HWDL400-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15
HWDR500-13	WD25N5.00..	5	13	49	10.6	HDR/HEL	0.15
HWDL500-13	WD25N5.00..	5	13	49	10.6	HDL/HER	0.15
HWDR500-25	WD25N5.00..	5	25	61	10.6	HDR/HEL	0.15
HWDL500-25	WD25N5.00..	5	25	61	10.6	HDL/HER	0.15

* 刀片需单独订购。Blades to be ordered separately.

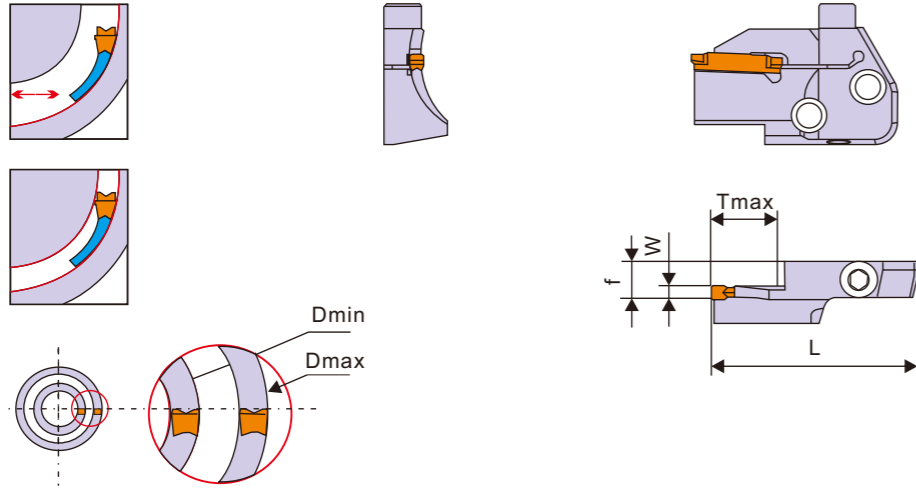
● 标准库存 Standard inventory ○ 订单生产 The order production

WD 模块式切槽刀

WD Modular part-off and grooving tools

端面切槽刀板 HFDR/L300..

Blades >> For face grooving



型号 Model	刀片 Inserts	尺寸与材质 Size and Grades				适合刀座 Apply for	重量 (kg)
		w	Tmax	L	f		
HFDR300034-12	WD22N3.00..	3	12	48	10.3	HDR/HEL	0.10
HFDL300034-12	WD22N3.00..	3	12	48	10.3	HDL/HER	0.10
HFDR300038-12	WD22N3.00..	3	12	48	10.3	HDR/HEL	0.10
HFDL300038-12	WD22N3.00..	3	12	48	10.3	HDL/HER	0.10
HFDR300042-12	WD22N3.00..	3	12	48	10.3	HDR/HEL	0.10
HFDL300042-12	WD22N3.00..	3	12	48	10.3	HDL/HER	0.10
HFDR300042-19	WD22N3.00..	3	19	55	10.3	HDR/HEL	0.10
HFDL300042-19	WD22N3.00..	3	19	55	10.3	HDL/HER	0.10
HFDR300054-12	WD22N3.00..	3	12	48	10.3	HDR/HEL	0.10
HFDL300054-12	WD22N3.00..	3	12	48	10.3	HDL/HER	0.10
HFDR300054-19	WD22N3.00..	3	19	55	10.3	HDR/HEL	0.10
HFDL300054-19	WD22N3.00..	3	19	55	10.3	HDL/HER	0.10
HFDR300067-12	WD22N3.00..	3	12	48	10.3	HDR/HEL	0.10
HFDL300067-12	WD22N3.00..	3	12	48	10.3	HDL/HER	0.10
HFDR300067-22	WD22N3.00..	3	22	58	10.3	HDR/HEL	0.10
HFDL300067-22	WD22N3.00..	3	22	58	10.3	HDL/HER	0.10
HFDR300090-12	WD22N3.00..	3	12	48	10.3	HDR/HEL	0.10
HFDL300090-12	WD22N3.00..	3	12	48	10.3	HDL/HER	0.10
HFDR300090-22	WD22N3.00..	3	22	58	10.3	HDR/HEL	0.10
HFDL300090-22	WD22N3.00..	3	22	58	10.3	HDL/HER	0.10
HFDR300130-12	WD22N3.00..	3	12	48	10.3	HDR/HEL	0.10
HFDL300130-12	WD22N3.00..	3	12	48	10.3	HDL/HER	0.10
HFDR300130-22	WD22N3.00..	3	22	58	10.3	HDR/HEL	0.10
HFDL300130-22	WD22N3.00..	3	22	58	10.3	HDL/HER	0.10

* 刀片需单独订购。Blades to be ordered separately.

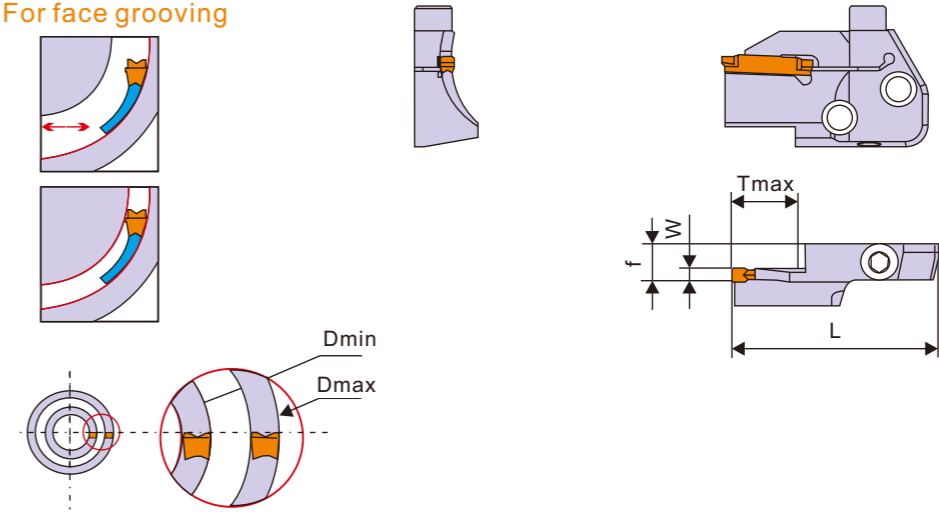
● 标准库存 Standard inventory ○ 订单生产 The order production

WD 模块式切槽刀

WD Modular part-off and grooving tools

端面切槽刀板 HFDR/L400..

Blades >> For face grooving



型号 Model	刀片 Inserts	尺寸与材质 Size and Grades				适合刀座 Apply for	重量 (kg)
		w	Tmax	L	f		
HFDR400040-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HFDL400040-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HFDR400040-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HFDL400040-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15
HFDR400052-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HFDL400052-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HFDR400052-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HFDL400052-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15
HFDR400064-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HFDL400064-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HFDR400064-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HFDL400064-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15
HFDR400092-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HFDL400092-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HFDR400092-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HFDL400092-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15
HFDR400132-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HFDL400132-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HFDR400132-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HFDL400132-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15
HFDR400220-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HFDL400220-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HFDR400220-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HFDL400220-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15
HFDR400300-13	WD25N4.00..	4	13	49	10.6	HDR/HEL	0.15
HFDL400300-13	WD25N4.00..	4	13	49	10.6	HDL/HER	0.15
HFDR400300-25	WD25N4.00..	4	25	61	10.6	HDR/HEL	0.15
HFDL400300-25	WD25N4.00..	4	25	61	10.6	HDL/HER	0.15

* 刀片需单独订购。Blades to be ordered separately.

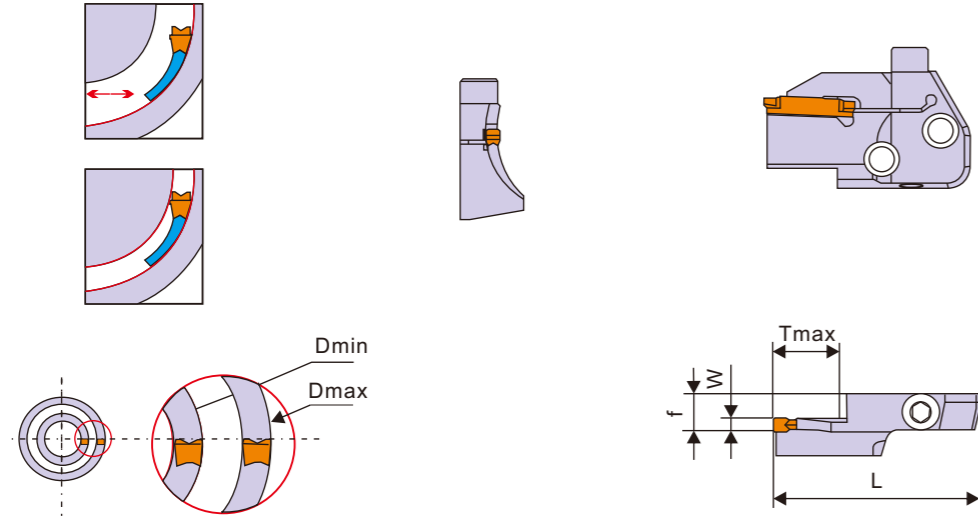
● 标准库存 Standard inventory ○ 订单生产 The order production

WD模块式切槽刀

WD Modular part-off and grooving tools

端面切槽刀板HFDL/L500..

Blades >> For face grooving



型号 Model	刀片 Inserts	尺寸与材质 Size and Grades				适合刀座 Apply for	重量 (kg)
		w	Tmax	L	f		
HFDL500040-13	WD25N5.00..	5	13	49	10.6	HDR/HEL	0.18
HFDL500040-13	WD25N5.00..	5	13	49	10.6	HDL/HER	0.18
HFDL500040-25	WD25N5.00..	5	25	61	10.6	HDR/HEL	0.18
HFDL500040-25	WD25N5.00..	5	25	61	10.6	HDL/HER	0.18
HFDL500060-13	WD25N5.00..	5	13	49	10.6	HDR/HEL	0.18
HFDL500060-13	WD25N5.00..	5	13	49	10.6	HDL/HER	0.18
HFDL500060-25	WD25N5.00..	5	25	61	10.6	HDR/HEL	0.18
HFDL500060-25	WD25N5.00..	5	25	61	10.6	HDL/HER	0.18
HFDL500085-13	WD25N5.00..	5	13	49	10.6	HDR/HEL	0.18
HFDL500085-13	WD25N5.00..	5	13	49	10.6	HDL/HER	0.18
HFDL500085-25	WD25N5.00..	5	25	61	10.6	HDR/HEL	0.18
HFDL500085-25	WD25N5.00..	5	25	61	10.6	HDL/HER	0.18
HFDL500120-13	WD25N5.00..	5	13	49	10.6	HDR/HEL	0.18
HFDL500120-13	WD25N5.00..	5	13	49	10.6	HDL/HER	0.18
HFDL500120-25	WD25N5.00..	5	25	61	10.6	HDR/HEL	0.18
HFDL500120-25	WD25N5.00..	5	25	61	10.6	HDL/HER	0.18
HFDL500175-13	WD25N5.00..	5	13	49	10.6	HDR/HEL	0.18
HFDL500175-13	WD25N5.00..	5	13	49	10.6	HDL/HER	0.18
HFDL500175-25	WD25N5.00..	5	25	61	10.6	HDR/HEL	0.18
HFDL500175-25	WD25N5.00..	5	25	61	10.6	HDL/HER	0.18
HFDL500180-13	WD25N5.00..	5	13	49	10.6	HDR/HEL	0.18
HFDL500180-13	WD25N5.00..	5	13	49	10.6	HDL/HER	0.18
HFDL500180-25	WD25N5.00..	5	25	61	10.6	HDR/HEL	0.18
HFDL500180-25	WD25N5.00..	5	25	61	10.6	HDL/HER	0.18

* 刀片需单独订购。Blades to be ordered separately.

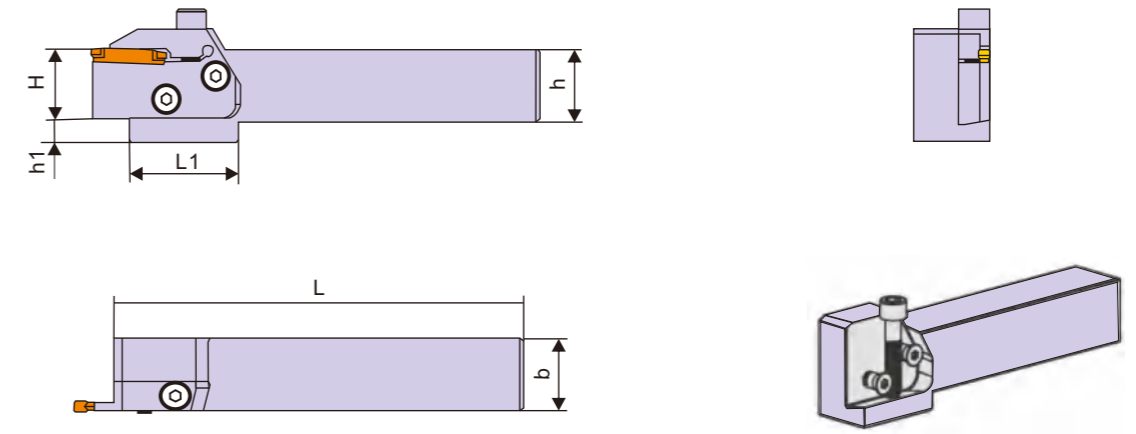
●标准库存 Standard inventory ○订单生产 The order production

WD模块式切槽刀

WD Modular part-off and grooving tools

纵向型刀座HDR/L..

Part-off block



型号 Model	尺寸与材质 Size and Grades						适合刀板 Apply for	重量 (kg)	螺钉 Screw	螺钉 Screw	扳手 Wrench	扳手 Wrench
	h	b	H	L	L1	h1						
HDR2020K	20	20	20	110	32	12	HWDR/HFDL	0.60	BS060160	BX060400	LT25	LH050
HDL2020K	20	20	20	110	32	12	HWDL/HFDR	0.60				
HDR2525M	25	25	25	135	32	7	HWDR/HFDL	0.80				
HDL2525M	25	25	25	135	32	7	HWDL/HFDR	0.80				
HDR3225P	32	25	32	155	32	-	HWDR/HFDL	0.90				
HDL3225P	32	25	32	155	32	-	HWDL/HFDR	0.90				
HDR3232P	32	32	32	155	32	-	HWDR/HFDL	1.00				
HDL3232P	32	32	32	155	32	-	HWDL/HFDR	1.00				
HDR4040R	40	40	40	180	32	-	HWDR/HFDL	1.50				
HDL4040R	40	40	40	180	32	-	HWDL/HFDR	1.50				

* 刀片需单独订购。Blades to be ordered separately.

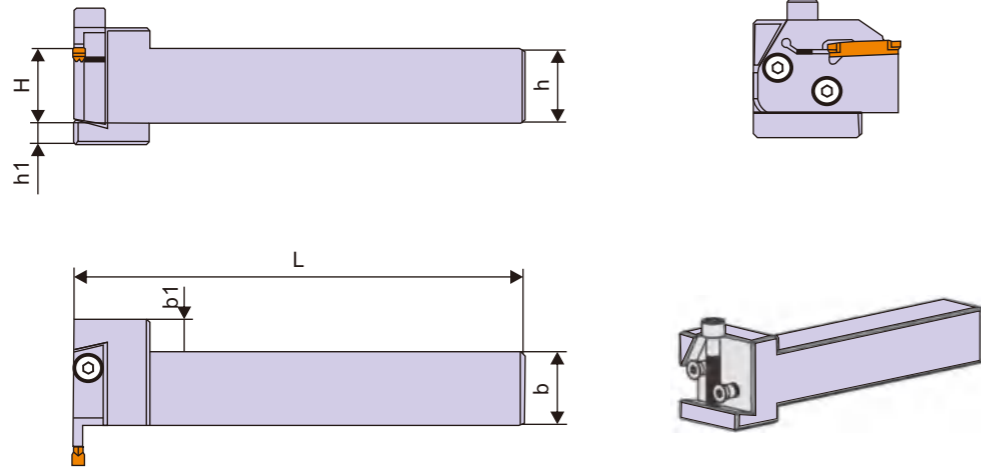
●标准库存 Standard inventory ○订单生产 The order production

WD模块式切槽刀

WD Modular part-off and grooving tools

横向型刀座HER/L..

Part-off block



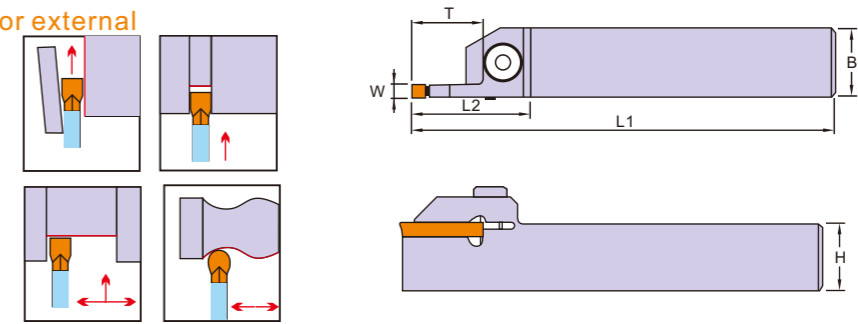
型号 Model	尺寸 (mm)						适合刀板 Apply for	重量 (kg)	螺钉 Screw	扳手 Wrench
	h	b	H	L	L1	h1				
HER2020K	20	20	20	110	32	12	HWDR/HFDR	0.60	BS060160	BX060400
HEL2020K	20	20	20	110	32	12	HWDL/HFDR	0.60		
HER2525M	25	25	25	135	32	7	HWDR/HFDR	0.80		
HEL2525M	25	25	25	135	32	7	HWDL/HFDR	0.80		
HER3225P	32	25	32	155	32	-	HWDR/HFDR	0.90		
HEL3225P	32	25	32	155	32	-	HWDL/HFDR	0.90		
HER3232P	32	32	32	155	32	-	HWDR/HFDR	1.00		
HEL3232P	32	32	32	155	32	-	HWDL/HFDR	1.00		
HER4040R	40	40	40	180	32	-	HWDR/HFDR	1.50		
HEL4040R	40	40	40	180	32	-	HWDL/HFDR	1.50		

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

WD外径切断刀杆

WDTool holder >> for external
TWDR/L..



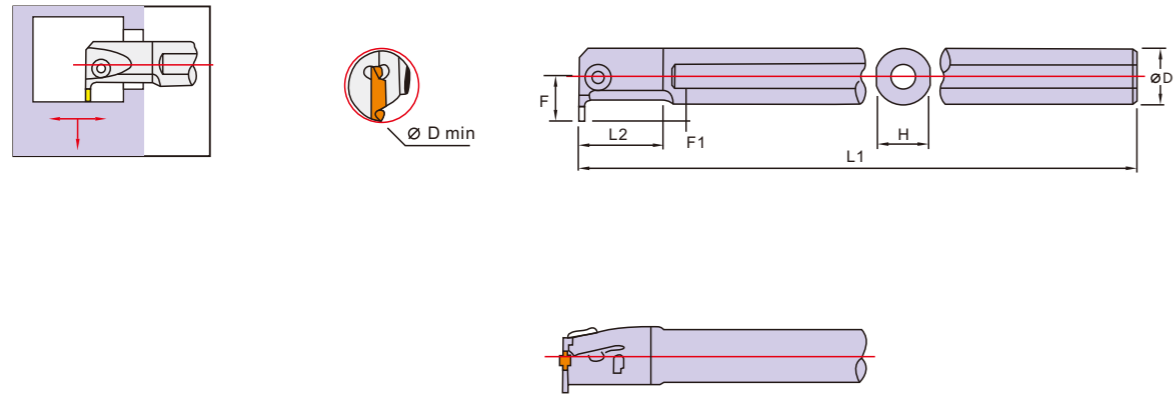
型号 Model	W	H	B	L	T	刀片 Inserts	重量 (kg)	螺钉 Screw	扳手 Wrench
TWDL1212K-2T12	2	12	12	125	12	WD22N2.00..	0.16	BS0407	LT15
TWDR1616K-2T16	2	16	16	125	17	WD22N2.00..	0.22	BX0520	LH040
TWDL1616K-2T16	2	16	16	125	17	WD22N2.00..	0.22	BX0520	LH040
TWDR2020K-2T16	2	20	20	125	17	WD22N2.00..	0.37	BX0620	LH050
TWDL2020K-2T16	2	20	20	125	17	WD22N2.00..	0.37	BX0620	LH050
TWDR2525M-2T16	2	25	25	150	17	WD22N2.00..	0.69	BX0620	LH050
TWDL2525M-2T16	2	25	25	150	17	WD22N2.00..	0.69	BX0620	LH050
TWDR1616K-3T06	3	16	16	125	14	WD22N3.00..	0.22	BX0520	LH040
TWDL1616K-3T06	3	16	16	125	14	WD22N3.00..	0.22	BX0520	LH040
TWDR1616K-3T20	3	16	16	125	20	WD22N3.00..	0.22	BX0520	LH040
TWDL1616K-3T20	3	16	16	125	20	WD22N3.00..	0.22	BX0520	LH040
TWDR2020K-3T09	3	20	20	125	09	WD22N3.00..	0.37	BX0620	LH050
TWDL2020K-3T09	3	20	20	125	09	WD22N3.00..	0.37	BX0620	LH050
TWDR2020K-3T20	3	20	20	125	20	WD22N3.00..	0.37	BX0620	LH050
TWDL2020K-3T20	3	20	20	125	20	WD22N3.00..	0.37	BX0620	LH050
TWDR2525M-3T09	3	25	25	150	09	WD22N3.00..	0.69	BX0620	LH050
TWDL2525M-3T09	3	25	25	150	09	WD22N3.00..	0.69	BX0620	LH050
TWDR2525M-3T22.5	3	25	25	150	20	WD22N3.00..	0.69	BX0620	LH050
TWDL2525M-3T22.5	3	25	25	150	20	WD22N3.00..	0.69	BX0620	LH050
TWDR2020K-4T10	4	20	20	125	10	WD25N4.00..	0.37	BX0620	LH050
TWDL2020K-4T10	4	20	20	125	10	WD25N4.00..	0.37	BX0620	LH050
TWDR2020K-4T20	4	20	20	125	20	WD25N4.00..	0.37	BX0620	LH050
TWDL2020K-4T20	4	20	20	125	20	WD25N4.00..	0.37	BX0620	LH050
TWDR2525M-4T10	4	25	25	150	10	WD25N4.00..	0.69	BX0620	LH050
TWDL2525M-4T10	4	25	25	150	10	WD25N4.00..	0.69	BX0620	LH050
TWDR2525M-4T22.5	4	25	25	150	20	WD25N4.00..	0.69	BX0620	LH050
TWDL2525M-4T22.5	4	25	25	150	20	WD25N4.00..	0.69	BX0620	LH050
TWDR2525M-5T12	5	25	25	150	12	WD25N5.00..	0.69	BX0620	LH050
TWDL2525M-5T12	5	25	25	150	12	WD25N5.00..	0.69	BX0620	LH050
TWDR2525M-5T24	5	25	25	150	25	WD25N5.00..	0.69	BX0620	LH050
TWDL2525M-5T24	5	25	25	150	25	WD25N5.00..	0.69	BX0620	LH050

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

Wd内径切槽刀架

WDTool holder >> for internal
TIWDR/L



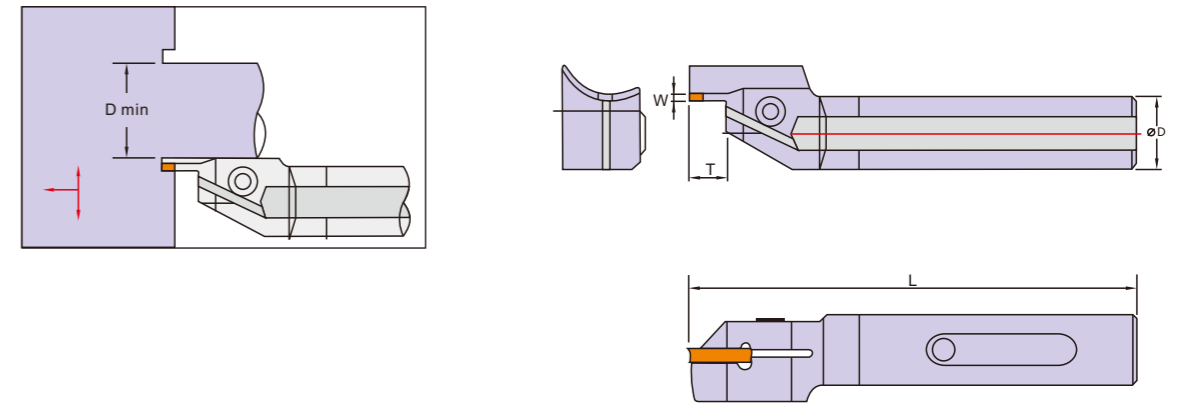
型号 Model							Dmin	刀片 The blade	重量 (kg)		螺钉 Screw	扳手 Wrench
	W	D	F	F1	L1	L2						
TIWDR2025-2T06	2	20	15	6	180	40	25	WD22N2.00..	0.46		BX0520	LH040
TIWDL2025-2T06	2	20	15	6	180	40	25	WD22N2.00..	0.46		BX0520	LH040
TIWDR2532-2T07	2	25	21.5	7	200	50	32	WD22N2.00..	0.80		BX0520	LH040
TIWDL2532-2T07	2	25	21.5	7	200	50	32	WD22N2.00..	0.80		BX0520	LH040
TIWDR2025-3T06	3	20	15	6	180	40	25	WD22N3.00..	0.46		BX0520	LH040
TIWDL2025-3T06	3	20	15	6	180	40	25	WD22N3.00..	0.46		BX0520	LH040
TIWDR2532-3T07	3	25	21.5	7	200	50	32	WD22N3.00..	0.80		BX0520	LH040
TIWDL2532-3T07	3	25	21.5	7	200	50	32	WD22N3.00..	0.80		BX0520	LH040
TIWDR3240-3T11	3	32	27	11	250	60	40	WD22N3.00..	1.62		BX0620	LH050
TIWDL3240-3T11	3	32	27	11	250	60	40	WD22N3.00..	1.62		BX0620	LH050
TIWDR2532-4T09	4	25	21.5	9	200	50	32	WD25N4.00..	0.80		BX0520	LH040

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

WD端面槽刀

WDTool holder >> for face grooving
WDFR/L..



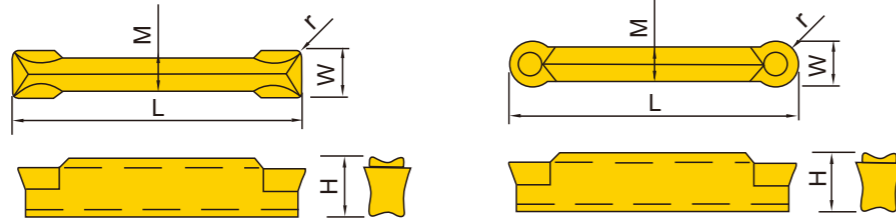
中心出水
Coolant

型号 Model							刀片 Inserts	重量 (kg)		螺钉 Screw	扳手 Wrench
	w	H	B	L	T						
A25M-WDFR2934-2T06	2	25	6	150	29	WD22N2.00..	0.50		BX0620	LH050	
A25M-WDFR3444-2T06	2	25	6	150	34	WD22N2.00..	0.50		BX0620	LH050	
A25M-WDFR4454-2T06	2	25	6	150	44	WD22N2.00..	0.50		BX0620	LH050	
A25M-WDFR5470-2T12	2	25	12	150	54	WD22N2.00..	0.50		BX0620	LH050	
A32M-WDFR70100-2T12	2	32	12	150	70	WD22N2.00..	0.70		BX0620	LH050	
A32M-WDFR100150-2T12	2	32	12	150	100	WD22N2.00..	0.70		BX0620	LH050	
A32M-WDFR150250-2T12	2	32	12	150	150	WD22N2.00..	0.70		BX0620	LH050	
A32M-WDFR250800-2T12	2	32	12	150	250	WD22N2.00..	0.70		BX0620	LH050	
A25M-WDFR2934-3T12	3	25	12	150	29	WD22N3.00..	0.50		BX0620	LH050	
A25M-WDFR3444-3T12	3	25	12	150	34	WD22N3.00..	0.50		BX0620	LH050	
A25M-WDFR4454-3T12	3	25	12	150	44	WD22N3.00..	0.50		BX0520	LH050	
A25M-WDFR5470-3T20	3	25	20	150	54	WD22N3.00..	0.50		BX0520	LH050	
A32M-WDFR70100-3T20	3	32	20	150	70	WD22N3.00..	0.70		BX0620	LH050	
A32M-WDFR100150-3T20	3	32	20	150	100	WD22N3.00..	0.70		BX0620	LH050	
A32M-WDFR150250-3T20	3	32	20	150	150	WD22N3.00..	0.70		BX0620	LH050	
A32M-WDFR250800-3T20	3	32	20	150	250	WD22N3.00..	0.70		BX0620	LH050	
A25M-WDFR2934-4T12	4	25	12	150	29	WD25N4.00..	0.50		BX0620	LH050	
A25M-WDFR3444-4T12	4	25	12	150	34	WD25N4.00..	0.50		BX0620	LH050	
A25M-WDFR4454-4T12	4	25	12	150	44	WD25N4.00..	0.50		BX0520	LH050	
A25M-WDFR5470-4T20	4	25	20	150	54	WD25N4.00..	0.50		BX0520	LH050	
A32M-WDFR70100-4T20	4	32	20	150	70	WD25N4.00..	0.70		BX0620	LH050	
A32M-WDFR100150-4T20	4	32	20	150	100	WD25N4.00..	0.70		BX0620	LH050	
A32M-WDFR150250-4T20	4	32	20	150	150	WD25N4.00..	0.70		BX0620	LH050	
A32M-WDFR250800-4T20	4	32	20	150	250	WD25N4.00..	0.70		BX0620	LH050	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

切断切槽刀片
Grooving inserts
WD..



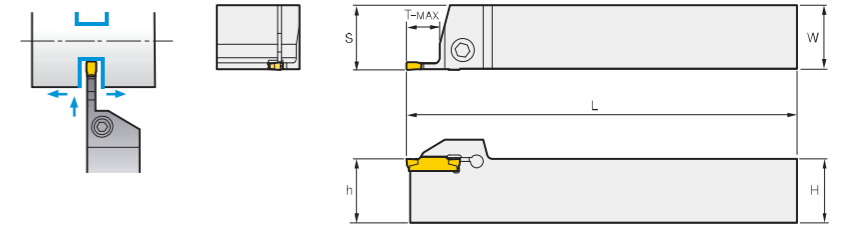
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades							
		W	L	R	H	A	KTX	KVX	KW20
	WD22N2.00S-0.2T	2.0	22	0.2	4.0				●
	WD22N3.00S-0.3T	3.0	22	0.3	4.0				●
	WD25N4.00S-0.4T	4.0	25	0.4	4.0				●
	WD25N5.00S-0.4T	5.0	25	0.4	4.0				●
	WD22R-2.00S-06F	2.0	22		4.0	6			●
	WD22R-3.00S-06F	3.0	22		4.0	6			●
	WD22N3.00S-1.5R	3.0	22	1.5	4.0				●
	WD25N4.00S-2.0R	4.0	25	2.0	4.0				●
钢 Steel		★							
不锈钢 Stainless Steel		★							
铸铁 Cast Iron		☆							
有色金属 Nonferrous Metal		★							
耐热合金 Heat Resistant Alloy		☆							
淬硬钢 Hardened Steel		☆							

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	加工形式 Processing the form	切削速度推荐值Vc(m/min) Recommended Cutting Speed			切削速度推荐值f(mm/rev) Recommended Cutting Speed			
		KTX	KVX	KW20	2.0	3.0	4.0	5.0
					f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)
P 钢 Steel	外圆加工 Cylindrical processing	50-100-170	50-100-170		0.06-0.12	0.08-0.20	0.10-0.25	0.12-0.25
	内孔端面加工 Inner hole end processing	40-70-100	40-70-100		0.05-0.10	0.07-0.12	0.08-0.14	0.10-0.16
M 不锈钢 Stainless Steel	外圆加工 Cylindrical processing		100-130-170		0.06-0.12	0.08-0.20	0.10-0.25	0.12-0.25
	内孔端面加工 Inner hole end processing		50-80-120		0.05-0.10	0.07-0.12	0.08-0.14	0.10-0.16
K 铸铁 Cast iron	外圆加工 Cylindrical processing	50-100-170	50-100-170		0.06-0.12	0.08-0.20	0.10-0.25	0.12-0.25
	内孔端面加工 Inner hole end processing	40-70-100	40-70-100		0.05-0.10	0.07-0.12	0.08-0.14	0.10-0.16

MGEHR/L

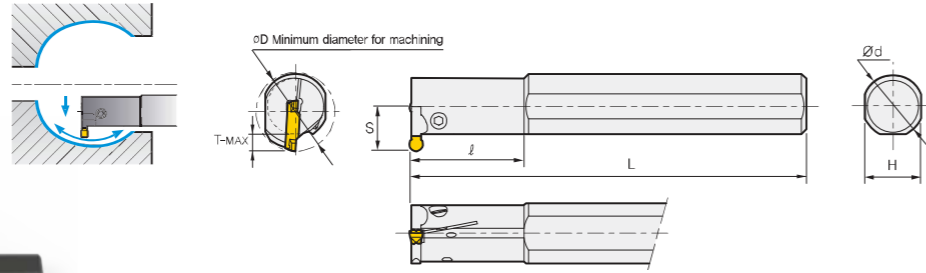


型号 Model		库存 Stock		尺寸 Size (mm)					最大切深 a max	刀片 Insert	螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	H	L	S	W					
MGEHR1616-2	MGEHL1616-2	○		16	100	15	2	14.5	MGMN200-M	M5×17	S4	
MGEHR2020-2	MGEHL2020-2	○		20	125	19	2	14.5	MGMN200-M	M6×20	S5	
MGEHR2525-2	MGEHL2525-2	○		25	150	24	2	14.5	MGMN200-M	M6×20	S5	
MGEHR1616-2.5	MGEHL1616-2.5	○		16	100	15	2.5	16.5	MGMN250-M	M5×17	S4	
MGEHR2020-2.5	MGEHL2020-2.5	○		20	125	19	2.5	16.5	MGMN250-M	M6×20	S5	
MGEHR2525-2.5	MGEHL2525-2.5	○		25	150	24	2.5	16.5	MGMN250-M	M6×20	S5	
MGEHR1616-3	MGEHL1616-3	○		16	100	14.8	3	18	MGMN300-M	M5×17	S4	
MGEHR2020-3	MGEHL2020-3	○		20	125	18.8	3	18	MGMN300-M			
MGEHR2020-3-T10	MGEHL2020-3-T10	○		20	125	18.8	3	10	MGMN300-M			
MGEHR2525-3	MGEHL2525-3	○		25	150	23.8	3	18	MGMN300-M	M6×20	S5	
MGEHR2525-3-T10	MGEHL2525-3-T10	○		25	150	23.8	3	10	MGMN300-M			
MGEHR3232-3	MGEHL3232-3	○		32	170	30.5	3	18	MGMN300-M			
MGEHR3232-3-T10	MGEHL3232-3-T10	○		32	170	30.5	3	10	MGMN300-M			
MGEHR2020-4	MGEHL2020-4	○		20	125	18.5	4	18	MGMN400-M			
MGEHR2020-4-T10	MGEHL2020-4-T10	○		20	125	18.5	4	10	MGMN400-M			
MGEHR2525-4	MGEHL2525-4	○		25	150	23.5	4	18	MGMN400-M			
MGEHR2525-4-T10	MGEHL2525-4-T10	○		25	150	23.5	4	10	MGMN400-M			
MGEHR3232-4	MGEHL3232-4	○		32	170	30.5	4	18	MGMN400-M			
MGEHR3232-T-T10	MGEHL3232-T-T10	○		32	170	30.5	4	10	MGMN400-M			
MGEHR2020-5	MGEHL2020-5	○		20	150	18	5	23	MGMN500-M			
MGEHR2020-5-T15	MGEHL2020-5-T15	○		20	150	18	5	25	MGMN500-M			
MGEHR2525-5	MGEHL2525-5	○		25	150	23	5	23	MGMN500-M	M6×20	S5	
MGEHR2525-5-T15	MGEHL2525-5-T15	○		25	150	23	5	15	MGMN500-M			
MGEHR3232-5	MGEHL3232-5	○		32	170	30	5	23	MGMN500-M			
MGEHR3232-5-T15	MGEHL3232-5-T15	○		32	170	30	5	15	MGMN500-M			
MGEHR2020-6	MGEHL2020-6	○		20	125	17	6	23	MGMN600-M			
MGEHR2020-6-T10	MGEHL2020-6-T10	○		20	125	17	6	10	MGMN600-M			
MGEHR2525-6	MGEHL2525-6	○		25	150	22.6	6	23	MGMN600-M			
MGEHR2525-6-T15	MGEHL2525-6-T15	○		25	150	22.6	6	15	MGMN600-M			
MGEHR3232-6	MGEHL3232-6	○		32	170	29.6	6	23	MGMN600-M			
MGEHR3232-6-T15	MGEHL3232-6-T15	○		32	170	29.6	6	15	MGMN600-M			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

MGIVR/L



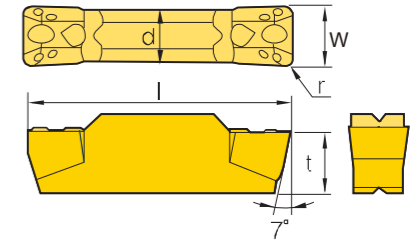
型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	螺钉 Clamp Screw	扳手 Hex wrench
右刀 Right hand	左刀 Left hand	R	L	ØD	L	S	W	最大切深 a_max			
MGIVR2016-1.5	MGIVL2016-1.5	○		16	180	11.3	1.5	3	MGMNI150-M	M4×14	S3
MGIVR2520-1.5	MGIVL2520-1.5	○		20	180	13.1	1.5	4	MGMNI150-M	M5×17	S4
MGIVR2925-1.5	MGIVL2925-1.5	○		25	200	16.2	1.5	4	MGMNI150-M	M5×17	S4
MGIVR2016-2	MGIVL2016-2	○		16	125	12.4	2	3	MGMNI200-M	M4×14	S3
MGIVR2520-2	MGIVL2520-2	○		20	125	14	2	5	MGMNI200-M	M5×17	S4
MGIVR2925-2	MGIVL2925-2	○		25	200	17.2	2	5	MGMNI200-M	M5×17	S4
MGIVR2016-2.5	MGIVL2016-2.5	○		16	125	12.5	2.5	6	MGMNI250-M	M4×14	S3
MGIVR2520-2.5	MGIVL2520-2.5	○		20	180	15.1	2.5	6	MGMNI250-M	M5×17	S4
MGIVR2925-2.5	MGIVL2925-2.5	○		25	200	18.2	2.5	6	MGMNI250-M	M5×17	S4
MGIVR2520-3	MGIVL2520-3	○		20	180	15.6	3	6	MGMNI300-M	M5×17	S4
MGIVR3125-3	MGIVL3125-3	○		25	200	18.9	3	5	MGMNI300-M	M5×17	S4
MGIVR3732-3	MGIVL3732-3	○		32	250	21.5	3	6	MGMNI300-M	M5×20	S4
MGIVR2520-4	MGIVL2520-4	○		20	180	15.6	4	6	MGMNI400-M	M5×17	S4
MGIVR3125-4	MGIVL3125-4	○		25	200	18.9	4	6	MGMNI400-M	M5×17	S4
MGIVR3732-4	MGIVL3732-4	○		32	250	21.5	4	6	MGMNI400-M	M5×20	S4
MGIVR3125-5	MGIVL3125-5	○		25	200	19.1	5	8	MGMNI500-M		
MGIVR3732-5	MGIVL3732-5	○		32	250	21.5	5	8	MGMNI500-M		
MGIVR3125-6	MGIVL3125-6	○		25	200	19.4	6	8	MGMNI600-M		
MGIVR3732-6	MGIVL3732-6	○		32	250	21.5	6	8	MGMNI600-M		
MGIVR3732-8	MGIVL3732-8	○		32	250	23.2	8	10	MGMNI800-M		
MGIVR4540-8	MGIVL4540-8	○		40	300	27.2	8	10	MGMNI800-M	M5×20	S5
MGIVR3125-6A	MGIVL3125-6A	○		25	200	19.4	6	8	MGMNI600-M		
MGIVR3732-6A	MGIVL3732-6A	○		32	250	21.5	6	8	MGMNI600-M		
MGIVR3732-8A	MGIVL3732-8A	○		32	250	23.4	8	10	MGMNI800-M		
MGIVR4540-8A	MGIVL4540-8A	○		40	300	27.2	8	10	MGMNI800-M		

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

切断切槽刀片
Grooving inserts

M.MN..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades								
		W	r	l	d	t	KTX	KVX	KW20	
	MGMN150-G	1.5	0.15	16.0	1.2	3.5	●	●		
	MGMN200-G	2.0	0.2	16.0	1.6	3.5	●	●		
	MGMN250-G	2.5	0.2	18.5	2.0	3.85	●	●		
	MGMN300-M	3.0	0.4	21.0	2.35	4.8	●	●		
	MGMN400-M	4.0	0.4	21.0	3.3	4.8	●	●		
	MGMN500-M	5.0	0.8	26.0	4.1	5.8	●	●		
MGMN600-M	6.0	0.8	26.0	5.0	5.8	●	●			
	MRMN200-M	2.0	1.0	16.0	1.5	3.5	●	●		
	MRMN300-M	3.0	1.5	21.0	2.35	4.8	●	●		
	MRMN400-M	4.0	2.0	21.0	3.3	4.8	●	●		
钢 Steel							★	★		
不锈钢 Stainless Steel								★		
铸铁 Cast Iron							☆	☆		
有色金属 Nonferrous Metal									★	
耐热合金 Heat Resistant Alloy								☆		
淬硬钢 Hardened Steel										

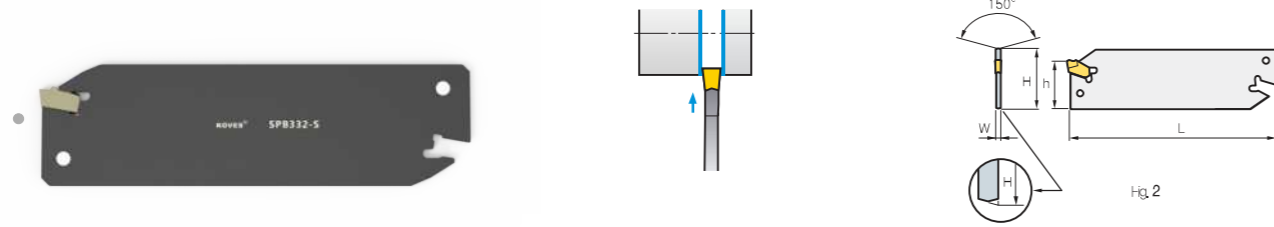
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	加工形式 Processing the form	切削速度推荐值Vc(m/min) Recommended Cutting Speed			切削速度推荐值f(mm/rev) Recommended Cutting Speed					
		KTX	KVX	KW20	1.5/2.0	2.5	3.0	4.0	5.0	6.0
					f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)
P 钢 Steel	外圆加工 Cylindrical processing	50-100-130	50-100-130		0.06-0.12	0.07-0.15	0.08-0.20	0.10-0.25	0.12-0.25	0.15-0.25
	内孔端面加工 Inner hole end processing	40-70-100	40-70-100		0.05-0.10	0.06-0.10	0.07-0.12	0.08-0.14	0.10-0.16	0.10-0.18
M 不锈钢 Stainless Steel	外圆加工 Cylindrical processing		60-110-150		0.06-0.12	0.07-0.15	0.08-0.20	0.10-0.25	0.12-0.25	0.15-0.25
	内孔端面加工 Inner hole end processing		50-80-120		0.05-0.10	0.06-0.10	0.07-0.12	0.08-0.14	0.10-0.16	0.10-0.18
K 铸铁 Cast Iron	外圆加工 Cylindrical processing	50-100-130	50-100-130		0.06-0.12	0.07-0.15	0.08-0.20	0.10-0.25	0.12-0.25	0.15-0.25
	内孔端面加工 Inner hole end processing	40-70-100	40-70-100		0.05-0.10	0.06-0.10	0.07-0.12	0.08-0.14	0.10-0.16	0.10-0.18

SPB



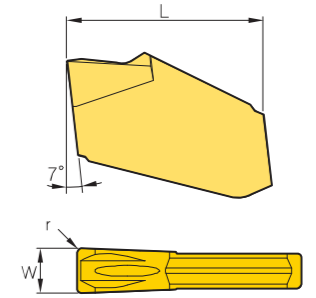
型号 Model	库存 Stock		尺寸 Size (mm)				刀片 Insert
	R	L	H	B	B	L	
SPB326-S	○		26	2.4	110	21.6	ZQMX300-1E
SPB426-S	○		26	3.2	110	21.6	ZQMX400-1E
SPB526-S	○		26	4.0	110	21.6	ZQMX500-ZE
SPB626-S	○		26	5.2	110	21.6	ZQMX600-1E
SPB332-S	○		32	2.4	150	25	ZQMX300-1E
SPB432-S	○		32	3.2	150	25	ZQMX400-1E
SPB532-S	○		32	4.0	150	25	ZQMX500-1E
SPB632-S	○		32	5.2	150	25	ZQMX600-1E

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

切断切槽刀片
Grooving inserts

SP..

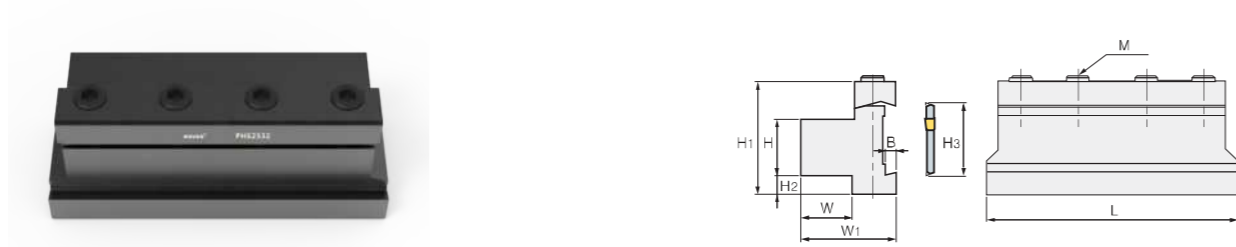


刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades			KTX	KVX	KW20
		W	I	R			
	SP200	2.0	9.3	0.2	●	●	
	SP300	3.0	11.3	0.2	●	●	
	SP400	4.0	11.3	0.25	●	●	
	SP500	5.0	11.4	0.3	●	●	
	SP600	6.4	11.4	0.35	●	●	
钢 Steel					★	★	
不锈钢 Stainless Steel						★	
铸铁 Cast Iron					☆	☆	
有色金属 Nonferrous Metal							★
耐热合金 Heat Resistant Alloy						☆	
淬硬钢 Hardened Steel							

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

PHS



型号 Model	库存 Stock		尺寸 Size (mm)					压板 Clamp	螺钉 Clamp Screw	扳手 Wrench	
	R	L	L	H	h1	h2	B				B1
PHS2026	○		86	20	10	46.6	19	38	PHS26		
PHS2526	○		86	25	5	46.6	23	42	PHS26		
PHS3226	○		86	32	3	51.6	30	48	PHS26	M6	S5
PHS2032	○		110	20	13	50	19	38	PHS32		
PHS2532	○		110	25	8	50	23	42	PHS32		
PHS3232	○		110	32	5	54	30	48	PHS32		

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

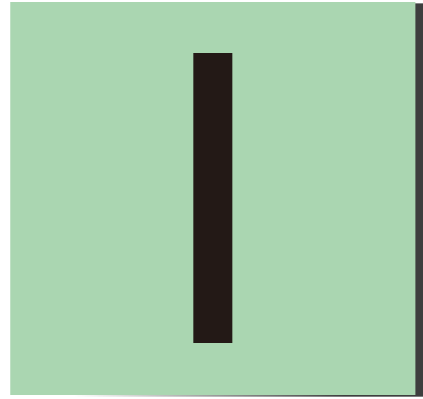
推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	加工形式 Processing the form	切削速度推荐值Vc(m/min) Recommended Cutting Speed			切削速度推荐值f(mm/rev) Recommended Cutting Speed			
		KTX	KVX	KW20	2.0	3.0	4.0	5.0
					f(mm/rev)	f(mm/rev)	f(mm/rev)	f(mm/rev)
P 钢 Steel	外圆加工 Cylindrical processing	60-100-150			0.07-0.12	0.08-0.15	0.09-0.20	0.10-0.25
M 不锈钢 Stainless Steel	外圆加工 Cylindrical processing							
K 铸铁 Cast iron	外圆加工 Cylindrical processing	60-100-150			0.07-0.12	0.08-0.15	0.09-0.20	0.10-0.25

螺纹车刀

Threading tool

I1~I22

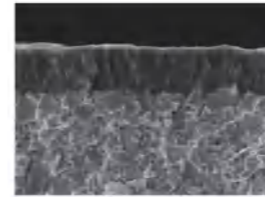


KTTR/L-F	I01
螺纹刀片 TT..55	I01
Thread inserts	
螺纹刀片 TT..60	I02
Thread inserts	
SER/L	I03
SIR/L	I04
CSIR/L ESIR/L	I05
螺纹刀片	I06
Thread inserts	
60° 泛外螺纹	I06
60° flood external thread	
60° 泛内螺纹	I07
60° wide internal thread	
55° 泛外螺纹	I08
55° wide external thread	
55° 泛内螺纹	I09
55° wide internal thread	
60° 公制外螺纹	I10
60° metric external thread	
60° 公制内螺纹	I11
60° metric internal thread	
60° 英制外螺纹 (UN)	I12
60° INCH MALE thread (UN)	
60° 英制内螺纹 (UN)	I13
60° inch internal thread (UN)	
55° 惠氏外螺纹 (W) 管用平行螺纹G(PF)	I14
55° Wyeth MALE thread (W) Pipe parallel thread G(PF)	
55° 惠氏内螺纹 (W) 管用平行螺纹G(PF)	I15
55° Whitworth internal thread (W) Pipe parallel thread G(PF)	
55° 锥度管螺纹 外螺纹 (BSPT)	I16
55° Taper pipe Thread MALE thread (BSPT)	
55° 锥度管螺纹 内螺纹 (BSPT)	I17
55° Taper pipe Thread Internal thread (BSPT)	
60° 美式锥度管螺纹 外螺纹 (NPT)	I18
60° American taper pipe Thread MALE thread (NPT)	
60° 美式锥度管螺纹 内螺纹 (NPT)	I19
60° American taper Pipe Internal thread (NPT)	
30° 梯形螺纹 外螺纹 (TR)	I20
30° Trapezoidal thread MALE thread (TR)	
30° 梯形螺纹 内螺纹 (TR)	I21
30° Trapezoidal thread Internal thread (TR)	
推荐切削条件表	I22
Table of recommended cutting conditions	

车削刀片材质简介 Turning Insert Grades

PVD涂层硬质合金系列
PVD coating carbide inserts

KTX 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing

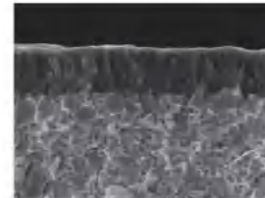


高硬度的硬质合金基体,具有较好的高温红硬性,匹配通用性良好的 TiCN PVD涂层,推荐用于钢件材质的车削

With highly hard substrate, favorable red hardness and .Use TiCN PVD coating with excellent versatility
Application: Suitable for steel cutting



KVX 适用类型：精，半精加工
Cutting Range: Finishing and Semi-finishing



高硬度的硬质合金基体,具有较好的高温红硬性,匹配通用性的PVD复合涂层,推荐用于不锈钢和钢件材质的车削

With highly hard substrate, favorable red hardness and excellent versatility
Application: Suitable for stainless steel and steel cutting

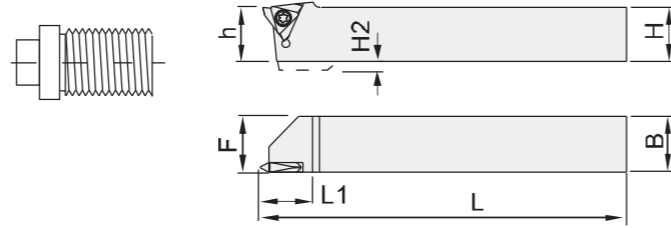


刀片材质一览表 Summary of Insert Grades

螺纹加工 Threading Turning

材质符号 Workpiece Material	P 钢 Steel				M 不锈钢 Stainless steel					K 铸铁 Cast Iron				N 有色金属 Nonferrous			S 耐热合金 NRSA				H 高硬材料 Hardness		
	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	N10	N20	N30	S01	S10	S20	S30	H01	H10	H20
PVD 涂层硬质合金 PVD Coated Carbide	KTX				KVX					KTX													
硬质合金 Uncoated Carbide														KW20									

KTTR/L-F



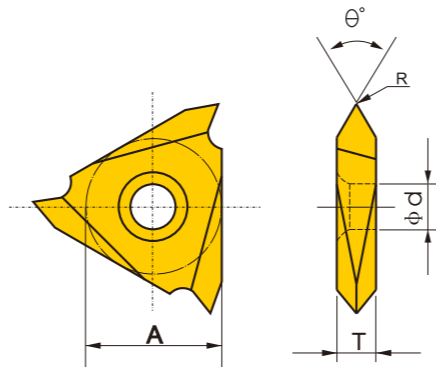
型号 Model		库存 Stock		尺寸 Size (mm)						刀片 Insert	螺钉 Clamp Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	H _h	B	L	L1	F	H2			
KTTR1010F-16F	KTTL1010F-16F	○		10	10	80	18	13	4	TT32R/L	ETNA0410	TW15P
KTTR1212H-16F	KTTL1212H-16F	○		12	12	100	18	17	2			
KTTR1616H-16F	KTTL1616H-16F	○		16	16	100	18	19	-			
KTTR2020K-16F	KTTL2020K-16F	○		20	20	125	18	23	-			
KTTR2525M-16F	KTTL2525M-22F	○		25	25	150	18	28	-	TT43R/L	ETNA0512	TW20P
KTTR2020K-22F	KTTL2020K-22F	○		20	20	150	25	23	-			
KTTR2525M-22F	KTTL2525M-22F	○		25	25	150	25	28	-			

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 standard inventory ○ 订单生产 The order production

螺纹刀片
Thread inserts

TT..55..



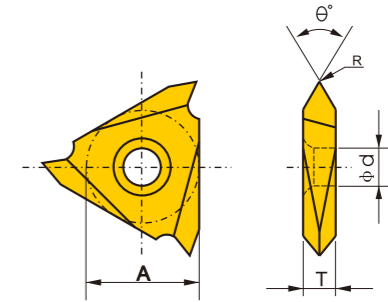
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		螺距 Pitch	TPI	R	T	A	θ°	KTX	KKX	KVX	KW20
	TT32R5501	28-10	0.1	3.18	9.525	55				●	●
	TT32R5502	14-11	0.2	3.18	9.525	55					
	TT43R5501	28-11	0.1	4.76	12.70	55				●	●
	TT43R5502	14-11	0.2	4.76	12.70	55					
	TT43R5503	10-7	0.3	4.76	12.70	55					
	TT43R5504	8-7	0.4	4.76	12.70	55					
	TT32L5501	28-10	0.1	3.18	9.525	55					
	TT32L5502	14-11	0.2	3.18	9.525	55					
	TT43L5501	28-11	0.1	4.76	12.70	55					
	TT43L5502	14-11	0.2	4.76	12.70	55					
	TT43L5503	10-7	0.3	4.76	12.70	55					
	TT43L5504	8-7	0.4	4.76	12.70	55					
钢 Steel										★	★
不锈钢 Stainless Steel										★	★
铸铁 Cast Iron										☆	☆
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	☆
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

TT..60..

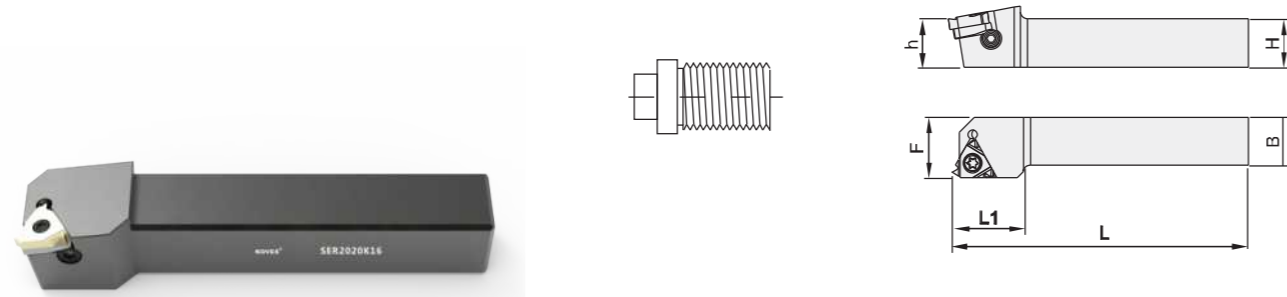


刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades											
		螺距 Pitch	TPI	R	T	A	θ°	KTX	KKX	KVX	KW20		
	TT32R6000	0.5-2.5		0.0	3.18	9.525	60					●	●
	TT32R6001	1.0-2.5		0.1	3.18	9.525	60					●	●
	TT32R6002	1.5-2.5		0.2	3.18	9.525	60						
	TT32R6003	2.5-3.5		0.3	3.18	9.525	60						
	TT43R6001	1.0-3.5		0.1	4.76	12.70	60					●	●
	TT43R6002	1.5-3.5		0.2	4.76	12.70	60						
	TT43R6003	2.5-3.5		0.3	4.76	12.70	60						
	TT43R6004	3.0-3.5		0.4	4.76	12.70	60						
	TT32L6000	0.5-2.5		0.0	3.18	9.525	60						
	TT32L6001	1.0-2.5		0.1	3.18	9.525	60						
	TT32L6002	1.5-2.5		0.2	3.18	9.525	60						
	TT32L6003	2.5-3.5		0.3	3.18	9.525	60						
TT43L6001	1.0-3.5		0.1	4.76	12.70	60							
TT43L6002	1.5-3.5		0.2	4.76	12.70	60							
TT43L6003	2.5-3.5		0.3	4.76	12.70	60							
TT43L6004	3.0-3.5		0.4	4.76	12.70	60							
钢 Steel												★	★
不锈钢 Stainless Steel												★	★
铸铁 Cast Iron												☆	☆
有色金属 Nonferrous Metal													★
耐热合金 Heat Resistant Alloy												☆	☆
淬硬钢 Hardened Steel													

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

SER/L

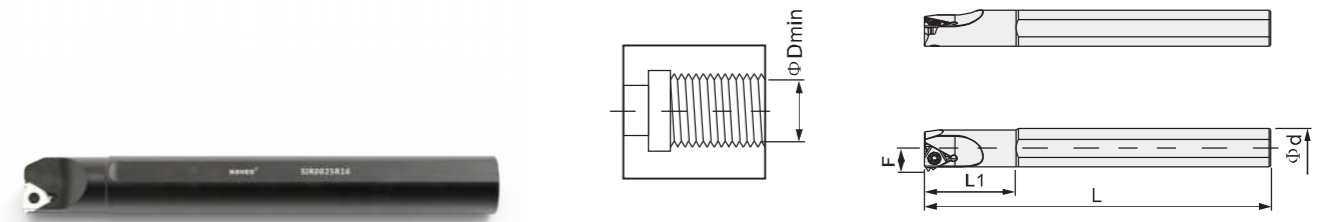


型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	垫片 Shim	刀垫螺钉 Insert Screw	螺钉 Shim Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	H h	B	L	L1	F					
SER0808H11	SEL0808H11	○		08	08	100	18	11	11ER/L..		ST11N		TW08P
SER1010H11	SEL1010H11	○		10	10	100	18	11			ST16N		
SER1212F16	SEL1212F16	○		12	12	80	22	16					
SER1616H16	SEL1616H16	○		16	16	100	22	16					
SER2020K16	SEL2020K16	○		20	20	125	30	20	16ER/L..	ATE16 ATI16	ST16	STA16	TW15P
SER2525M16	SEL2525M16	○		25	25	150	30	15					
SER3232P16	SEL3232P16	○		32	32	170	30	32					
SER2020K22	SEL2020K22	○		20	20	125	36	20					
SER2525M22	SEL2525M22	○		25	25	150	36	25	22ER/L..	ATE22 ATI22	ST22	STA22	TW15P
SER3232P22	SEL3232P22	○		32	32	170	36	32					
SER4040R22	SEL4040R22	○		40	40	200	36	40					
SER2525M27	SEL2525M27	○		25	25	150	40	25					
SER3232P27	SEL3232P27	○		32	32	170	40	32	27ER/L..	ATE27 ATI27	ST27	STA27	TW25P
SER4040R27	SEL4040R27	○		40	40	200	40	40					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

SIR/L

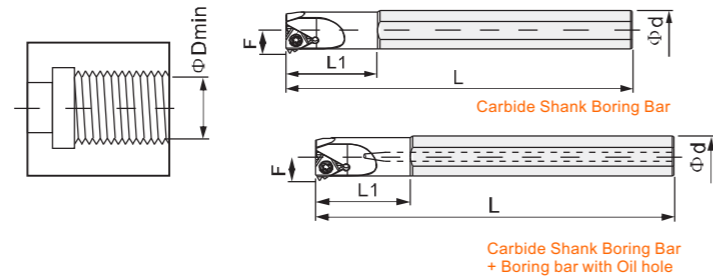


型号 Model		库存 Stock		尺寸 Size (mm)					刀片 Insert	垫片 Shim	刀垫螺钉 Insert Screw	螺钉 Shim Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	Φdmin	Φd	L	L1	F					
SIR0005H06	SIL0005H06	●	○	6.4	12	100	15	4.3	06IR/L..		ST06N		TW06P
SIR0007H06	SIL0007H06	●	○	7.8	16	125	21	5.3					
SIR0008K08	SIL0008K08	●	○	9.0	16	125	24	6.4	08IR/L..		ST08N		TW06P
SIR0010H11	SIL0010H11	●	○	12	10	100	-	7.4					
SIR0010K11	SIL0010K11	●	○	12	16	125	30	6.5	11IR/L..		ST11N		TW08P
SIR0012K11	SIL0012K11	●	○	15	12	140	36	8.0					
SIR0012M16	SIL0012M16	●	○	16	16	150	36	10.0					
SIR0016P16	SIL0016P16	●	○	19	16	170	-	11.4					
SIR0020P16	SIL0020P16	●	○	24	20	170	-	13.4	16IR/L..		ST16		TW15P
SIR0025R16	SIL0025R16	●	○	29	25	200	-	16.3		ATE16 ATI16			
SIR0032S16	SIL0032S16	●	○	36	32	250	-	19.6					
SIR0040T16	SIL0040T16	●	○	44	40	300	-	13.8					
SIR0020P22	SIL0020P22	●	○	24	20	170	-	13.0					
SIR0025R22	SIL0025R22	●	○	29	25	200	-	17.2	22IR/L..	ATE22 ATI22	ST22	STA22	TW15P
SIR0032S16	SIL0032S16	●	○	38	32	250	-	21.5					
SIR0040T22	SIL0040T22	●	○	46	40	300	-	25.8					
SIR0032S27	SIL0032S27	●	○	40	32	250	-	22.4					
SIR0040T27	SIL0040T27	●	○	48	40	300	-	26.4	27IR/L..	ATE27 ATI27	ST27	STA27	TW25P
SIR0050U27	SIL0050U27	●	○	58	50	350	-	31.4					
SIR0060V27	SIL0060V27	●	○	68	60	400	-	36.4					

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

CSIR/L
ESIR/L



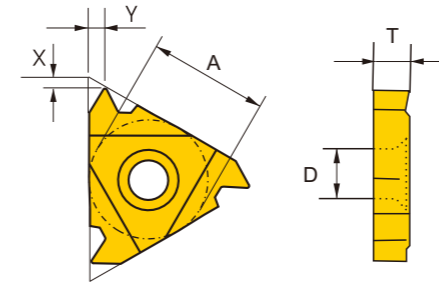
型号 Model		库存 Stock		尺寸 Size (mm)				刀片 Insert	垫片 Shim	刀垫螺钉 Insert Screw	螺钉 Shim Screw	扳手 Wrench
右刀 Right hand	左刀 Left hand	R	L	ΦDmin	Φd	L	L1	F				
CSIR0005H06	CSIL0005H06	○		6.4	6	110	25	4.3				
CSIR0007K06	CSIL0007K06	○		7.8	8	125	30	5.3				
CSIR0008K08	CSIL0008K08	○		9.0	8	125	35	6.4				
CSIR0010M11	CSIL0010M11	○		12	10	150	-	7.4				
CSIR0012P11	CSIL0012P11	○		15	12	170	-	8.5				
CSIR0016R16	CSIL0016R16	○		19	16	200	-	11.4				
CSIR0020S16	CSIL0020S16	○		23	20	250	-	13.7				
CSIR0025S16	CSIL0025S16	○		28	25	300	-	16.2				
ESIR0005H06	ESIL0005H06	○		6.4	6	110	25	4.3				
ESIR0007K06	ESIL0007K06	○		7.8	8	125	30	5.3				
ESIR0008K08	ESIL0008K08	○		9.0	8	125	35	6.4				
ESIR0010M11	ESIL0010M11	○		12	10	150	-	7.6				
ESIR0012P11	ESIL0012P11	○		15	12	170	-	8.5				
ESIR0016R16	ESIL0016R16	○		19	16	200	-	11.4				
ESIR0020S16	ESIL0020S16	○		23	20	250	-	13.7				
ESIR0025S16	ESIL0025S16	○		28	25	300	-	16.2				

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

螺纹刀片
Thread inserts

60° 泛外螺纹
60° full external thread



型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L...	9.525	3.68	4.0
22ER/L...	12.70	4.9	4.85

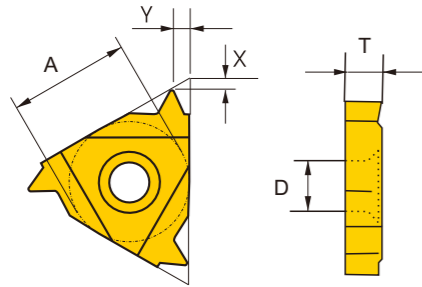
刀片外形 Insert shape	型号 Model	螺距 Pitch	TPI	R	尺寸与材质 Size and Grades								
					X	Y	Φ°	KTX	KKX	KVX	KW20		
	16ERM A60	0.5-1.5		0.06	0.8	0.9	60					●	
	16ERM G60	1.75-3		0.22	1.2	1.7	60					●	
	16ERM AG60	0.5-3		0.06	1.2	1.7	60					●	
	16ER A60	0.5-1.5		0.06	0.8	0.9	60	●	●	●	●	●	
	16ER G60	1.75-3		0.22	1.2	1.7	60	●	●	●	●	●	
	16ER AG60	0.5-3		0.06	1.2	1.7	60	●	●	●	●	●	
	16ELM A60	0.5-1.5		0.06	0.8	0.9	60						
	16ELM G60	1.75-3		0.22	1.2	1.7	60						
	16ELM AG60	0.5-3		0.06	1.2	1.7	60						
	16EL A60	0.5-1.5		0.06	0.8	0.9	60						
	16EL G60	1.75-3		0.22	1.2	1.7	60						
	16EL AG60	0.5-3		0.06	1.2	1.7	60						
钢 Steel												★	★
不锈钢 Stainless Steel												★	★
铸铁 Cast Iron												☆	☆
有色金属 Nonferrous Metal													★
耐热合金 Heat Resistant Alloy												☆	☆
淬硬钢 Hardened Steel													

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

60° 泛内螺纹
60° full external thread



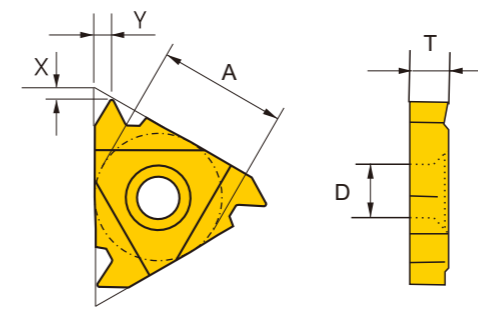
型号 Model	尺寸 Size (mm)		
	A	T	D
06NR..	3.97	1.91	2.3
08NR..	4.76	2.38	2.3
11NR..	6.35	3.18	3.0
16NR..	9.525	3.68	4.0
22NR..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	螺距 Pitch	TPI	R	尺寸与材质 Size and Grades							
					X	Y	θ°	KTX	KKX	KVX	KW20	
	06NR A60	0.75-1.25		0.05	0.6	0.6	60				●	●
	08NR A60	1.0-1.75		0.07	0.6	0.7	60				●	●
	11NR A60	0.5-1.5		0.02	0.8	0.9	60	●	●	●	●	●
	16NR A60	0.5-1.5		0.02	0.8	0.9	60	●	●	●	●	●
	16NR G60	1.75-3		0.11	1.2	1.7	60	●	●	●	●	●
	16NR AG60	0.5-3		0.02	1.2	1.7	60	●	●	●	●	●
	22NR N60	3.5-5		0.22	1.7	2.5	60	●		●	●	●
	06NL A60	0.75-1.25		0.05	0.6	0.6	60					
	08NL A60	1.0-1.75		0.07	0.6	0.7	60					
	11NL A60	0.5-1.5		0.02	0.8	0.9	60					
	16NL A60	0.5-1.5		0.02	0.8	0.9	60					
	16NL G60	1.75-3		0.11	1.2	1.7	60					
	16NL AG60	0.5-3		0.02	1.2	1.7	60					
	22NL N60	3.5-5		0.22	1.7	2.5	60					
钢 Steel											★	★
不锈钢 Stainless Steel											★	★
铸铁 Cast Iron											☆	☆
有色金属 Nonferrous Metal												★
耐热合金 Heat Resistant Alloy											☆	☆
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

55° 泛外螺纹
55° full external thread



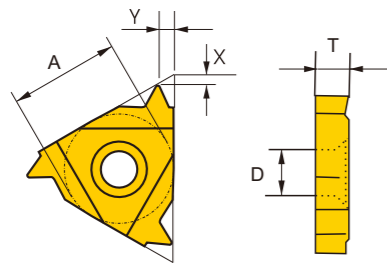
型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L..	9.525	3.68	4.0
22ER/L..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	螺距 Pitch	TPI	R	尺寸与材质 Size and Grades							
					X	Y	θ°	KTX	KKX	KVX	KW20	
	16ERM A55		40-16	0.06	0.8	0.9	55				●	
	16ERM G55		14-8	0.22	1.2	1.7	55				●	
	16ERM AG55		40-8	0.06	1.2	1.7	55				●	
	16ER A55		40-6	0.06	0.8	0.9	55	●	●	●	●	●
	16ER G55		14-8	0.22	1.2	1.7	55	●	●	●	●	●
	16ER AG55		40-8	0.06	1.2	1.7	55	●	●	●	●	●
	22ER N55		7-5	0.47	1.7	2.5	55	●		●	●	●
	16ELM A55		40-16	0.06	0.8	0.9	55					
	16ELM G55		14-8	0.22	1.2	1.7	55					
	16ELM AG55		40-8	0.06	1.2	1.7	55					
	16EL A55		40-6	0.06	0.8	0.9	55					
	16EL G55		14-8	0.22	1.2	1.7	55					
	16EL AG55		40-8	0.06	1.2	1.7	55					
	22EL N55		7-5	0.47	1.7	2.5	55					
钢 Steel											★	★
不锈钢 Stainless Steel											★	★
铸铁 Cast Iron											☆	☆
有色金属 Nonferrous Metal												★
耐热合金 Heat Resistant Alloy											☆	☆
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片 Thread inserts

55° 泛内螺纹
55° universal internal thread



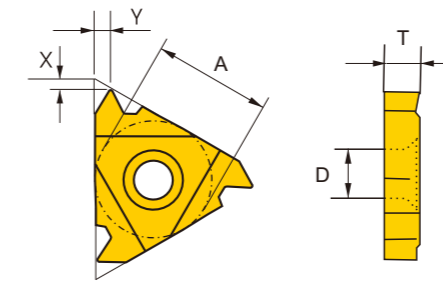
型号 Model	尺寸 Size (mm)		
	A	T	D
06NR..	3.97	1.91	2.3
08NR..	4.76	2.38	2.3
11NR..	6.35	3.18	3.0
16NR..	9.525	3.68	4.0
22NR..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20
	06NR A55		24	0.10	0.6	0.6	55			●	●
	08NR A55		24,20	0.10	0.6	0.7	55			●	●
	11NR A55		40-16	0.06	0.8	0.9	55	●	●	●	●
	16NR A55		40-16	0.06	0.8	0.9	55	●	●	●	●
	16NR G55		14-8	0.22	1.2	1.7	55	●	●	●	●
	16NR AG55		40-8	0.06	1.2	1.7	55	●	●	●	●
	22NR N55		7-5	0.47	1.7	2.5	55	●	●	●	●
	06NL A55		24	0.10	0.6	0.6	55				
	08NL A55		24,20	0.10	0.6	0.7	55				
	11NL A55		40-16	0.06	0.8	0.9	55				
	16NL A55		40-16	0.06	0.8	0.9	55				
	16NL G55		14-8	0.22	1.2	1.7	55				
	16NL AG55		40-8	0.06	1.2	1.7	55				
	22NL N55		7-5	0.47	1.7	2.5	55				
钢 Steel										★	★
不锈钢 Stainless Steel										★	★
铸铁 Cast Iron									☆	☆	☆
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	☆
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片 Thread inserts

60° 公制外螺纹
60° metric external thread



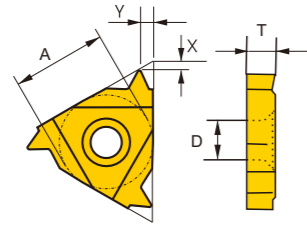
型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L..	9.525	3.68	4.0
22ER/L..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	螺距 Pitch	TPI	R	尺寸与材质 Size and Grades						
					X	Y	θ°	KTX	KKX	KVX	KW20
	16ERM 1.00 ISO	1.0		0.12	0.7	0.7	60				●
	16ERM 1.25 ISO	1.25		0.15	0.8	0.9	60				●
	16ERM 1.50 ISO	1.5		0.19	0.8	1.0	60				●
	16ERM 1.75 ISO	1.75		0.22	0.9	1.2	60				●
	16ERM 2.00 ISO	2.0		0.25	1.0	1.3	60				●
	16ERM 2.50 ISO	2.5		0.33	1.1	1.5	60				●
	16ERM 3.00 ISO	3.0		0.41	1.2	1.6	60				●
	16ER 0.50 ISO	0.5		0.06	0.6	0.6	60	●	●	●	●
	16ER 0.75 ISO	0.75		0.09	0.6	0.6	60	●	●	●	●
	16ER 1.00 ISO	1.0		0.12	0.7	0.7	60	●	●	●	●
	16ER 1.25 ISO	1.25		0.15	0.8	0.9	60	●	●	●	●
	16ER 1.50 ISO	1.5		0.19	0.8	1.0	60	●	●	●	●
	16ER 1.75 ISO	1.75		0.22	0.9	1.2	60	●	●	●	●
	16ER 2.00 ISO	2.0		0.25	1.0	1.3	60	●	●	●	●
	16ER 2.50 ISO	2.5		0.32	1.1	1.5	60	●	●	●	●
	16ER 3.00 ISO	3.0		0.41	1.2	1.6	60	●	●	●	●
	22ER 3.00 ISO	3.0		0.41	1.2	1.6	60	●	●	●	●
	22ER 3.50 ISO	3.5		0.48	1.6	2.3	60	●	●	●	●
	22ER 4.00 ISO	4.0		0.55	1.6	2.3	60	●	●	●	●
	22ER 4.50 ISO	4.0		0.62	1.7	2.4	60	●	●	●	●
22ER 5.00 ISO	5.0		0.70	1.7	2.5	60	●	●	●	●	
	16ELM 1.00 ISO	1.0		0.12	0.7	0.7	60				
	16ELM 1.25 ISO	1.25		0.15	0.8	0.9	60				
	16ELM 1.50 ISO	1.5		0.19	0.8	1.0	60				
	16ELM 1.75 ISO	1.75		0.22	0.9	1.2	60				
	16ELM 2.00 ISO	2.0		0.25	1.0	1.3	60				
	16ELM 2.50 ISO	2.5		0.33	1.1	1.5	60				
	16ELM 3.00 ISO	3.0		0.41	1.2	1.6	60				
	16EL 0.50 ISO	0.5		0.06	0.6	0.6	60				
	16EL 0.75 ISO	0.75		0.09	0.6	0.6	60				
	16EL 1.00 ISO	1.0		0.12	0.7	0.7	60				
	16EL 1.25 ISO	1.25		0.15	0.8	0.9	60				
	16EL 1.50 ISO	1.5		0.19	0.8	1.0	60				
	16EL 1.75 ISO	1.75		0.22	0.9	1.2	60				
	16EL 2.00 ISO	2.0		0.25	1.0	1.3	60				
	16EL 2.50 ISO	2.5		0.32	1.1	1.5	60				
	16EL 3.00 ISO	3.0		0.41	1.2	1.6	60				
	22EL 3.00 ISO	3.0		0.41	1.2	1.6	60				
	22EL 3.50 ISO	3.5		0.48	1.6	2.3	60				
	22EL 4.00 ISO	4.0		0.55	1.6	2.3	60				
	22EL 4.50 ISO	4.0		0.62	1.7	2.4	60				
22EL 5.00 ISO	5.0		0.70	1.7	2.5	60					
钢 Steel											★
不锈钢 Stainless Steel											★
铸铁 Cast Iron									☆	☆	☆
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	☆
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

60°公制内螺纹
60° metric internal thread



型号 Model	尺寸 Size (mm)		
	A	T	D
11NR..	6.35	3.18	3.0
16NR..	9.525	3.68	4.0
22NR..	12.70	4.9	4.85

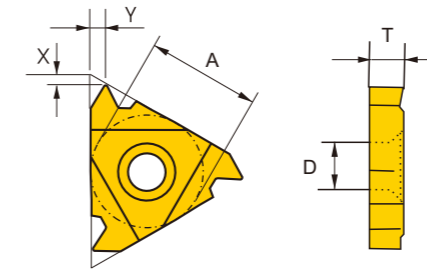
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades											
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20		
	11NRM 1.00 ISO	1.0		0.07	0.6	0.7	60						
	11NRM 1.25 ISO	1.25		0.08	0.8	0.9	60						
	11NRM 1.50 ISO	1.5		0.11	0.8	1.0	60						
	11NRM 1.75 ISO	1.75		0.12	0.9	1.1	60						
	16NRM 1.00 ISO	1.0		0.07	0.6	0.7	60						
	16NRM 1.25 ISO	1.25		0.08	0.8	0.9	60						
	16NRM 1.50 ISO	1.5		0.11	0.8	1.0	60						
	16NRM 1.75 ISO	1.75		0.12	0.9	1.2	60						
	16NRM 2.00 ISO	2.0		0.14	1.0	1.3	60						
	16NRM 2.50 ISO	2.5		0.17	1.1	1.5	60						
	16NRM 3.00 ISO	3.0		0.19	1.1	1.5	60						
	11NR 0.50 ISO	0.5		0.03	0.6	0.6	60						
	11NR 0.75 ISO	0.75		0.05	0.6	0.6	60						
	11NR 1.00 ISO	1.0		0.07	0.6	0.7	60						
	11NR 1.25 ISO	1.25		0.08	0.8	0.9	60						
	11NR 1.50 ISO	1.5		0.11	0.8	1.0	60						
	11NR 1.75 ISO	1.75		0.12	0.9	1.1	60						
	11NR 2.00 ISO	2.0		0.14	0.8	0.9	60						
	16NR 1.00 ISO	1.0		0.07	0.6	0.7	60						
	16NR 1.25 ISO	1.25		0.08	0.8	0.9	60						
	16NR 1.50 ISO	1.5		0.11	0.8	1.0	60						
	16NR 1.75 ISO	1.75		0.12	0.9	1.2	60						
	16NR 2.00 ISO	2.0		0.14	1.0	1.3	60						
	16NR 2.50 ISO	2.5		0.16	1.1	1.5	60						
	16NR 3.00 ISO	3.0		0.19	1.1	1.5	60						
	22NR 3.00 ISO	3.0		0.19	1.1	1.5	60						
	22NR 3.50 ISO	3.5		0.23	1.6	2.3	60						
	22NR 4.00 ISO	4.0		0.26	1.6	2.3	60						
	22NR 4.50 ISO	4.5		0.30	1.6	2.3	60						
	22NR 5.00 ISO	5.0		0.34	1.6	2.3	60						
	11NRM 1.00 ISO	1.0		0.07	0.6	0.7	60						
	11NRM 1.25 ISO	1.25		0.08	0.8	0.9	60						
	11NRM 1.50 ISO	1.5		0.11	0.8	1.0	60						
	11NRM 1.75 ISO	1.75		0.12	0.9	1.1	60						
	16NRM 1.00 ISO	1.0		0.07	0.6	0.7	60						
	16NRM 1.25 ISO	1.25		0.08	0.8	0.9	60						
	16NRM 1.50 ISO	1.5		0.11	0.8	1.0	60						
	16NRM 1.75 ISO	1.75		0.12	0.9	1.2	60						
	16NRM 2.00 ISO	2.0		0.14	1.0	1.3	60						
	16NRM 2.50 ISO	2.5		0.17	1.1	1.5	60						
	16NRM 3.00 ISO	3.0		0.19	1.1	1.5	60						
	11NR 0.50 ISO	0.5		0.03	0.6	0.6	60						
	11NR 0.75 ISO	0.75		0.05	0.6	0.6	60						
	11NR 1.00 ISO	1.0		0.07	0.6	0.7	60						
	11NR 1.25 ISO	1.25		0.08	0.8	0.9	60						
	11NR 1.50 ISO	1.5		0.11	0.8	1.0	60						
	11NR 1.75 ISO	1.75		0.12	0.9	1.1	60						
	11NR 2.00 ISO	2.0		0.14	0.8	0.9	60						
	16NR 1.00 ISO	1.0		0.07	0.6	0.7	60						
	16NR 1.25 ISO	1.25		0.08	0.8	0.9	60						
	16NR 1.50 ISO	1.5		0.11	0.8	1.0	60						
	16NR 1.75 ISO	1.75		0.12	0.9	1.2	60						
	16NR 2.00 ISO	2.0		0.14	1.0	1.3	60						
	16NR 2.50 ISO	2.5		0.16	1.1	1.5	60						
	16NR 3.00 ISO	3.0		0.19	1.1	1.5	60						
	22NR 3.00 ISO	3.0		0.19	1.1	1.5	60						
	22NR 3.50 ISO	3.5		0.23	1.6	2.3	60						
	22NR 4.00 ISO	4.0		0.26	1.6	2.3	60						
	22NR 4.50 ISO	4.5		0.30	1.6	2.3	60						
	22NR 5.00 ISO	5.0		0.34	1.6	2.3	60						
钢 Steel												★	★
不锈钢 Stainless Steel												★	★
铸铁 Cast Iron												☆	☆
有色金属 Nonferrous Metal													★
耐热合金 Heat Resistant Alloy												☆	☆
淬硬钢 Hardened Steel													

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

60°英制外螺纹 (UN)
60° Inch male thread (UN)



型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L..	9.525	3.68	4.0
22ER/L..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades												
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20			
	16ERM 24 UN		24	0.12	0.8	0.9	60							
	16ERM 20 UN		20	0.15	0.8	1.0	60							
	16ERM 18 UN		18	0.18	0.9	1.1	60							
	16ERM 16 UN		16	0.20	1.0	1.2	60							
	16ERM 14 UN		14	0.23	1.0	1.3	60							
	16ERM 13 UN		13	0.25	1.1	1.4	60							
	16ERM 12 UN		12	0.27	1.1	1.5	60							
	16ERM 10 UN		10	0.34	1.1	1.5	60							
	16ERM 08 UN		8	0.43	1.2	1.6	60							
	16ER 24 UN		24	0.13	0.7	0.8	60				●	●	●	●
	16ER 20 UN		20	0.16	0.8	0.9	60				●	●	●	●
	16ER 18 UN		18	0.18	0.8	1.0	60				●	●	●	●
	16ER 16 UN		16	0.20	0.9	1.1	60				●	●	●	●
	16ER 14 UN		14	0.23	1.0	1.2	60				●	●	●	●
	16ER 12 UN		12	0.27	1.1	1.4	60				●	●	●	●
	22ER 08 UN		8	0.43	1.2	1.6	60				●	●	●	●
		16ELM 24 UN		24	0.12	0.7	0.9	60						
		16ELM 20 UN		20	0.15	0.8	1.0	60						
		16ELM 18 UN		18	0.18	0.9	1.1	60						
		16ELM 16 UN		16	0.20	1.0	1.2	60						
		16ELM 14 UN		14	0.23	1.0	1.3	60						
		16ELM 13 UN		13	0.25	1.1	1.4	60						
		16ELM 12 UN		12	0.27	1.1	1.5	60						
		16ELM 10 UN		10	0.34	1.1	1.5	60						
16ELM 08 UN			8	0.43	1.2	1.6	60							
16EL 24 UN			24	0.13	0.7	0.8	60							
16EL 20 UN			20	0.16	0.8	0.9	60							
16EL 18 UN			18	0.18	0.8	1.0	60							
16EL 16 UN		16	0.20	0.9	1.1	60								
16EL 14 UN		14	0.23	1.0	1.2	60								
16EL12UN		12	0.27	1.1	1.4	60								
22EL 08 UN		8	0.43	1.2	1.6	60								
钢 Steel														
不锈钢 Stainless Steel														
铸铁 Cast Iron														
有色金属 Nonferrous Metal														
耐热合金 Heat Resistant Alloy														
淬硬钢 Hardened Steel														

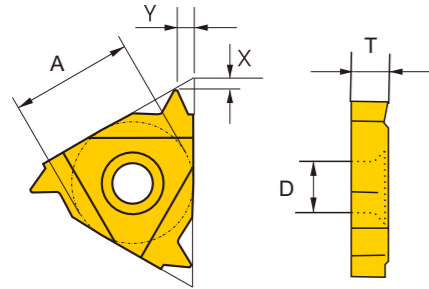
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

60°英制内螺纹 (UN)

60° Inch internal thread (UN)



型号 Model	尺寸 Size (mm)		
	A	T	D
16NR/L..	9.525	3.68	4.0
22NR/L..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades										
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20	
	16NRM 24 UN	24	0.06	0.7	0.8	60				●		
	16NRM 20 UN	20	0.08	0.8	0.9	60				●		
	16NRM 18 UN	18	0.09	0.8	1.0	60				●		
	16NRM 16 UN	16	0.10	0.9	1.1	60				●		
	16NRM 14 UN	14	0.12	0.9	1.2	60				●		
	16NRM 13 UN	13	0.13	1.0	1.3	60				●		
	16NRM 12 UN	12	0.14	1.1	1.4	60				●		
	16NRM 10 UN	10	0.17	1.1	1.5	60				●		
	16NRM 08 UN	8	0.21	1.1	1.5	60				●		
	16NR 24 UN	24	0.05	0.7	0.8	60	●	●		●	●	
	16NR 20 UN	20	0.07	0.8	0.9	60	●	●		●	●	
	16NR 18 UN	18	0.09	0.8	1.0	60	●	●		●	●	
	16NR 16 UN	16	0.10	0.9	1.1	60	●	●		●	●	
	16NR 14 UN	14	0.12	0.9	1.2	60	●	●		●	●	
	16NR 12 UN	12	0.14	1.1	1.4	60	●	●		●	●	
	22NR 08 UN	8	0.20	1.1	1.5	60	●	●		●	●	
		16NLM 24 UN	24	0.06	0.7	0.8	60					
		16NLM 20 UN	20	0.08	0.8	0.9	60					
		16NLM 18 UN	18	0.09	0.8	1.0	60					
		16NLM 16 UN	16	0.10	0.9	1.1	60					
		16NLM 14 UN	14	0.12	0.9	1.2	60					
		16NLM 13 UN	13	0.13	1.0	1.3	60					
16NLM 12 UN		12	0.14	1.1	1.4	60						
16NLM 10 UN		10	0.17	1.1	1.5	60						
16NLM 08 UN		8	0.21	1.1	1.5	60						
16NL 24 UN		24	0.05	0.7	0.8	60						
16NL 20 UN		20	0.07	0.8	0.9	60						
16NL 18 UN		18	0.09	0.8	1.0	60						
16NL 16 UN		16	0.10	0.9	1.1	60						
16NL 14 UN		14	0.12	0.9	1.2	60						
16NL12UN	12	0.14	1.1	1.4	60							
22NL 08 UN	8	0.20	1.1	1.5	60							
钢 Steel									★	★		
不锈钢 Stainless Steel									★	★		
铸铁 Cast Iron									☆	☆		
有色金属 Nonferrous Metal										★		
耐热合金 Heat Resistant Alloy									☆	☆		
淬硬钢 Hardened Steel									☆	☆		

★ 首选 Preferred ☆ 可选 optional

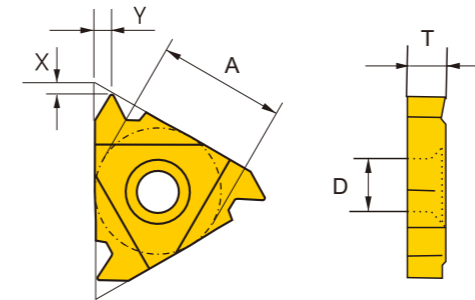
● 标准库存 standard stock

○ 订单生产 order production

螺纹刀片
Thread inserts

55°惠氏外螺纹 (W) 管用平行螺纹G(PF)

55° Wyeth external thread (W) pipe parallel thread G(PF)



型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L..	9.525	3.68	4.0
22ER/L..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20
	16ERM 19W	19	0.16	0.8	1.0	55				●	
	16ERM 16W	16	0.19	0.9	1.1	55				●	
	16ERM 14W	14	0.23	1.0	1.2	55				●	
	16ERM 11W	11	0.30	1.1	1.5	55				●	
	16ER 19W	19	0.16	0.8	1.0	55	●	●		●	●
	16ER14W	14	0.23	1.0	1.2	55	●	●		●	●
	16ER 11W	11	0.30	1.1	1.5	55	●	●		●	●
	16ELM 19W	19	0.16	0.8	1.0	55					
	16ELM 16W	16	0.19	0.9	1.1	55					
	16ELM 14W	14	0.23	1.0	1.2	55					
	16ELM 11W	11	0.30	1.1	1.5	55					
16EL 19W	19	0.16	0.8	1.0	55						
16EL14W	14	0.23	1.0	1.2	55						
16EL 11W	11	0.30	1.1	1.5	55						
钢 Steel									★	★	
不锈钢 Stainless Steel									★	★	
铸铁 Cast Iron									☆	☆	
有色金属 Nonferrous Metal										★	
耐热合金 Heat Resistant Alloy									☆	☆	
淬硬钢 Hardened Steel									☆	☆	

★ 首选 Preferred ☆ 可选 optional

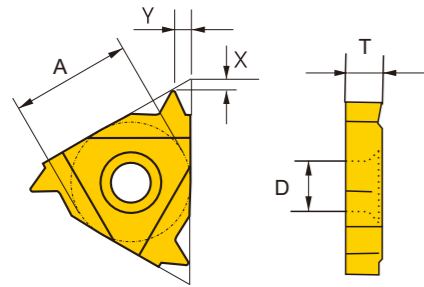
● 标准库存 standard stock

○ 订单生产 order production

螺纹刀片 Thread inserts

55°惠氏内螺纹 (W) 管用平行螺纹G(PF)

55° Wyeth internal thread (W) tube Parallel thread G(PF)



型号 Model	尺寸 Size (mm)		
	A	T	D
16NR/L...	9.525	3.68	4.0
22NR/L...	12.70	4.9	4.85

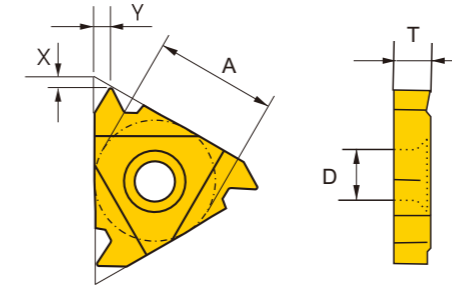
刀片外形 Insert shape	型号 Model	螺距 Pitch	TPI	R	尺寸与材质 Size and Grades						
					X	Y	θ°	KTX	KKX	KVX	KW20
	16NRM 19W	19	0.16	0.8	1.0	55				●	
	16NRM 16W	16	0.19	0.9	1.2	55				●	
	16NRM 14W	14	0.23	1.0	1.4	55				●	
	16NRM 11W	11	0.30	1.1	1.5	55				●	
	16NR 14W	14	0.23	1.0	1.2	55	●	●	●	●	●
	16NR 11W	11	0.30	1.1	1.5	55	●	●	●	●	●
	16NLM 19W	19	0.16	0.8	1.0	55					
	16NLM 16W	16	0.19	0.9	1.2	55					
	16NLM 14W	14	0.23	1.0	1.4	55					
	16NLM 11W	11	0.30	1.1	1.5	55					
	16NL 14W	14	0.23	1.0	1.2	55					
	16NL 11W	11	0.30	1.1	1.5	55					
钢 Steel										★	★
不锈钢 Stainless Steel										★	★
铸铁 Cast Iron									☆	☆	☆
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	☆
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片 Thread inserts

55°锥度管螺纹 外螺纹 (BSPT)

55° Taper Pipe thread external thread (BSPT)



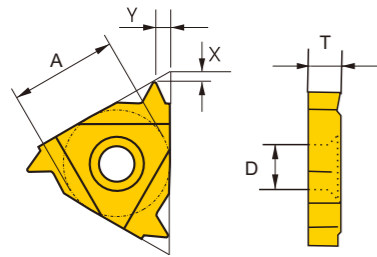
型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L...	9.525	3.68	4.0
22ER/L...	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	螺距 Pitch	TPI	R	尺寸与材质 Size and Grades						
					X	Y	θ°	KTX	KKX	KVX	KW20
	16ERM 28BSPT	28	0.10	0.6	0.6	55				●	
	16ERM 19BSPT	19	0.16	0.8	0.9	55				●	
	16ERM 14BSPT	14	0.22	1.0	1.2	55				●	
	16ERM 11BSPT	11	0.29	1.1	1.5	55				●	
	16ER 28BSPT	28	0.10	0.6	0.6	55	●	●	●	●	●
	16ER 19BSPT	19	0.16	0.8	0.9	55	●	●	●	●	●
	16ER 14BSPT	14	0.22	1.0	1.2	55	●	●	●	●	●
	16ER 11BSPT	11	0.29	1.1	1.5	55	●	●	●	●	●
	16ELM 28BSPT	28	0.10	0.6	0.6	55					
	16ELM 19BSPT	19	0.16	0.8	0.9	55					
	16ELM 14BSPT	14	0.22	1.0	1.2	55					
	16ELM 11BSPT	11	0.29	1.1	1.5	55					
	16EL 28BSPT	28	0.10	0.6	0.6	55					
	16EL 19BSPT	19	0.16	0.8	0.9	55					
	16EL 14BSPT	14	0.22	1.0	1.2	55					
16EL 11BSPT	11	0.29	1.1	1.5	55						
钢 Steel										★	★
不锈钢 Stainless Steel										★	★
铸铁 Cast Iron									☆	☆	☆
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy										☆	☆
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

55°锥度管螺纹 内螺纹 (BSPT)
55° Taper pipe thread, Internal thread (BSPT)



型号 Model	尺寸 Size (mm)		
	A	T	D
11NR..	6.35	3.18	3.0
16NR..	9.525	3.68	4.0

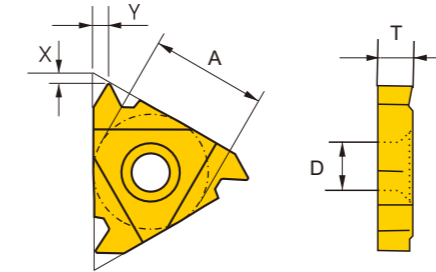
刀片外形 Insert shape	型号 Model	螺距 Pitch	尺寸与材质 Size and Grades									
			TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20	
	11NRM 28BSPT	28	0.10	0.6	0.6	55					●	
	11NRM 19BSPT	19	0.16	0.8	0.9	55					●	
	11NRM 14BSPT	14	0.22	0.9	1.0	55					●	
	16NRM 14BSPT	14	0.22	1.0	1.2	55					●	
	16NRM 11BSPT	11	0.29	1.1	1.5	55					●	
	11NR 28BSPT	28	0.10	0.6	0.6	55	●	●	●	●	●	●
	11NR 19BSPT	19	0.16	0.8	0.9	55	●	●	●	●	●	●
	11NR 14BSPT	14	0.22	0.9	1.0	55	●	●	●	●	●	●
	16NR 14BSPT	14	0.22	1.0	1.2	55	●	●	●	●	●	●
	16NR 11BSPT	11	0.29	1.1	1.5	55	●	●	●	●	●	●
	11NLM 28BSPT	28	0.10	0.6	0.6	55						
	11NLM 19BSPT	19	0.16	0.8	0.9	55						
	11NLM 14BSPT	14	0.22	0.9	1.0	55						
	16NLM 14BSPT	14	0.22	1.0	1.2	55						
	16NLM 11BSPT	11	0.29	1.1	1.5	55						
	11NL 28BSPT	28	0.10	0.6	0.6	55						
	11NL 19BSPT	19	0.16	0.8	0.9	55						
	11NL 14BSPT	14	0.22	0.9	1.0	55						
	16NL 14BSPT	14	0.22	1.0	1.2	55						
	16NL 11BSPT	11	0.29	1.1	1.5	55						
钢 Steel										★	★	
不锈钢 Stainless Steel										★	★	
铸铁 Cast Iron									☆	☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy									☆	☆		
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

60°美式锥度管螺纹 外螺纹 (NPT)
60° American Taper Pipe Thread, NPT



型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L..	9.525	3.68	4.0
22ER/L..	12.70	4.9	4.85

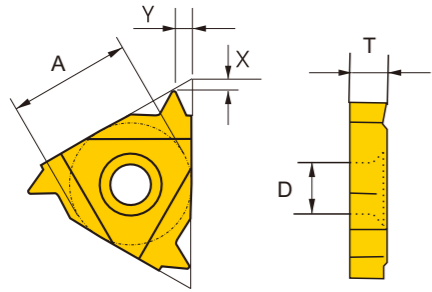
刀片外形 Insert shape	型号 Model	螺距 Pitch	尺寸与材质 Size and Grades									
			TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20	
	16ER 18NPT		18	0.04	0.8	1.0	60	●	●	●	●	
	16ER 14NPT		14	0.05	0.9	1.2	60	●	●	●	●	
	16ER 11.5NPT		11.5	0.06	1.1	1.5	60	●	●	●	●	
	16EL 18NPT		18	0.04	0.8	1.0	60					
	16EL 14NPT		14	0.05	0.9	1.2	60					
	16EL 11.5NPT		11.5	0.06	1.1	1.5	60					
钢 Steel										★	★	
不锈钢 Stainless Steel										★	★	
铸铁 Cast Iron									☆	☆		
有色金属 Nonferrous Metal											★	
耐热合金 Heat Resistant Alloy									☆	☆		
淬硬钢 Hardened Steel												

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片 Thread inserts

60°美式锥度管螺纹 内螺纹 (NPT)
60° American Taper Pipe Thread, INTERNAL thread (NPT)



型号 Model	尺寸 Size (mm)		
	A	T	D
16NR/L..	9.525	3.68	4.0
22NR/L..	12.70	4.9	4.85

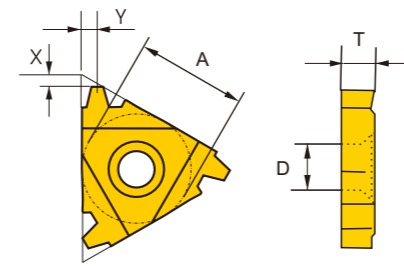
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20
	16NR 18NPT	18	0.04	0.8	1.0	60	●	●	●	●	
	16NR 14NPT	14	0.05	0.9	1.2	60	●	●	●	●	
	16NR 11.5NPT	11.5	0.06	1.1	1.5	60	●	●	●	●	
	16NL 18NPT	18	0.04	0.8	1.0	60					
	16NL 14NPT	14	0.05	0.9	1.2	60					
	16NL 11.5NPT	11.5	0.06	1.1	1.5	60					
钢 Steel							★		★		
不锈钢 Stainless Steel								★		★	
铸铁 Cast Iron							☆		☆		
有色金属 Nonferrous Metal										★	
耐热合金 Heat Resistant Alloy								☆	☆		
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片 Thread inserts

30°梯形螺纹 外螺纹 (TR)
30° Trapezoidal thread External thread (TR)



型号 Model	尺寸 Size (mm)		
	A	T	D
16ER/L..	9.525	3.68	4.0
22ER/L..	12.70	4.9	4.85

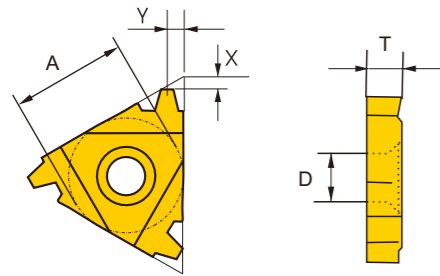
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20
	16ER 2.0TR	2.0	0.20	1.1	1.3	30	●	●	●	●	
	16ER 3.0TR	3.0	0.20	1.3	1.5	30	●	●	●	●	
	22ER 4.0TR	4.0	0.20	1.7	1.9	30	●		●	●	
	22ER 5.0TR	5.0	0.20	2.1	2.5	30	●		●	●	
	16EL 2.0TR	2.0	0.20	1.1	1.3	30					
	16EL 3.0TR	3.0	0.20	1.3	1.5	30					
	22EL 4.0TR	4.0	0.20	1.7	1.9	30					
	22EL 5.0TR	5.0	0.20	2.1	2.5	30					
钢 Steel							★		★		
不锈钢 Stainless Steel								★		★	
铸铁 Cast Iron							☆		☆		
有色金属 Nonferrous Metal										★	
耐热合金 Heat Resistant Alloy								☆	☆		
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

螺纹刀片
Thread inserts

30°梯形螺纹 内螺纹 (TR)
30° Trapezoidal thread Internal thread (TR)



型号 Model	尺寸 Size (mm)		
	A	T	D
16NR/L..	9.525	3.68	4.0
22NR/L..	12.70	4.9	4.85

刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		螺距 Pitch	TPI	R	X	Y	θ°	KTX	KKX	KVX	KW20
	16NR 2.0TR	2.0		0.20	1.1	1.3	30	●	●	●	●
	16NR 3.0TR	3.0		0.20	1.3	1.5	30	●	●	●	●
	22NR 4.0TR	4.0		0.20	1.7	1.9	30	●	●	●	●
	22NR 5.0TR	5.0		0.20	2.1	2.5	30	●	●	●	●
	16NL 2.0TR	2.0		0.20	1.1	1.3	30				
	16NL 3.0TR	3.0		0.20	1.3	1.5	30				
	22NL 4.0TR	4.0		0.20	1.7	1.9	30				
	22NL 5.0TR	5.0		0.20	2.1	2.5	30				
钢 Steel							★			★	
不锈钢 Stainless Steel								★		★	
铸铁 Cast Iron							☆			☆	
有色金属 Nonferrous Metal										★	
耐热合金 Heat Resistant Alloy									☆	☆	
淬硬钢 Hardened Steel											

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 HB	切削速度推荐值 Vc(m/min) Recommended Cutting Speed									
		KTX		KKX		KVX		KW20			
		ER	NR	ER	NR	ER	NR	ER	NR		
P 碳素钢 Carbon Steel	低碳钢 C=0.1-0.25%	125	100-190	90-180			130-190	110-180			
	中碳钢 C=0.25-0.55%	150	100-170	90-160			130-170	110-160			
	高碳钢 C=0.55-0.85%	170	80-160	70-150			110-160	100-150			
	合金钢 Alloy Steel	易车铁	180	80-160	70-150			120-170	110-150		
		淬火钢 HRC=28-40		70-130	60-120			100-150	80-120		
		淬火钢 HRC=41-48		60-100	50-80			80-130	60-90		
	铸造钢 Casting Steel	淬火钢 HRC=49-55		40-60	40-60			50-70	40-70		
		低碳钢 Low Carbon Steel	200	70-140	70-130			100-180	100-160		
		中碳钢 Medium Carbon Steel	250	60-130	60-120			90-170	90-150		
	锻造钢 Forging Steel	低碳钢 Low Carbon Steel	230	60-130	60-120			100-150	100-130		
中碳钢 Medium Carbon Steel		280	60-120	60-110			100-130	100-120			
M 不锈钢-棒料/锻料 Stainless Steel	奥氏体 Austenite	200			80-120	60-100	100-150	80-130			
	预淬火 Pre quenching	330			60-80	50-80	70-100	70-100			
	易车不锈钢 Easy car stainless steel	200			80-120	60-100	100-150	80-130			
	预淬火 Pre quenching	330			50-70	50-70	80-100	60-80			
	铁素体/马氏体 Ferrite/Martensite	330			60-90	50-80	60-90	50-80			
	淬硬 hardened	330			60-90	50-80	60-90	50-80			
	不锈钢-棒料/锻料 Stainless Steel	C ≥ 0.05%	230			40-60	40-60	50-70	45-70		
	铁素体/奥氏体 Ferrite/Austenite	C < 0.05%	260			70-80	50-70	70-80	55-80		
	不锈钢-铸造 Stainless Steel Casting	奥氏体 Austenite	200			80-120	60-100	100-150	100-130		
	奥氏体 Austenite	淬硬 hardened	330			45-70	50-70	70-90	60-80		
K 灰口铸铁 Gray Cast iron	铁素体 Ferrite	130	100-190	100-180			100-190	100-180			
	球光体 Pearlite	230	80-150	80-150			80-150	80-150			
	球墨铸铁 Nodular Cast iron	铁素体 Ferrite	180	100-160	90-160			100-160	90-160		
		球光体 Pearlite	260	100-150	90-150			100-150	90-150		
可锻铸铁 Malleable Cast iron	铁素体 Ferrite	160	110-170	110-170			110-170	110-170			
	球光体 Pearlite	260	100-120	100-120			100-120	100-120			
N 铝合金 Aluminium Alloys	非时效淬硬 Non-aging Hardened	60							180-280	180-300	
	时效淬硬 Aging Hardened	100							100-220	100-220	
	高硅合金 13-22% Si	130							80-180	80-180	
	铜和铜合金 Copper Alloy	黄铜 Brass	100							100-220	100-220
青铜 Bronze		100							100-220	100-220	

舍弃式铣刀

Disposable milling cutter

J1~J54



铣削刀片 APMT..系列 Milling blade APMT.. A series of J01-24

- 铣削刀片 APMT.....J
The milling blade
- 铣削刀片 APMT.....J
The milling blade
- BAP玉米铣刀盘/刀杆.....J
BAP corn milling cutter head/shank
- 铣削刀片 RD.....J
The milling blade
- 铣削刀片 RP.....J
The milling blade
- 铣削刀片 SE.....J
The milling blade
- 铣削刀片 TP.....J
The milling blade
- LNMU0303快进给铣刀片.....J
LNMU0303 High feed milling inserts
- HXN03快进给模块式铣刀/刀盘/刀杆.....J
HXN03 Fast feed modular milling cutter/cutter head/cutter shank
- WNMU0806铣刀片.....J
WNMU milling inserts
- MFWN 双面6刀尖低阻力90°刀盘.....J
MFWN Double sided 6edge Face mill
- SOKU1205铣刀片.....J
SOKU1205 milling inserts
- FM45可转位面铣刀.....J
FM45 indexable face milling cutter
- LNPU1104铣刀片.....J
LNPU1104 milling inserts
- HM4模块式铣刀/刀杆/刀盘.....J
HM4 modular milling cutter/cutter shank/cutter head

ZPFG J25-29

- ZPFG.....J
- ABPFM.....J
- ABPF..S..(L/L...).....J
- ABPF..S..W(/....).....J
- ZCFW.....J
- ARPF..S..(..../.).....J

直杆系列 Straight rod series J30-33

- 直杆系列-锁牙式抗震钨钢刀杆.....J
Straight bar series - locking type seismic tungsten steel cutter bar
- 可转位锁牙式立铣刀柄.....J
Indexable lock type end milling shank
- 可转位锁牙式立铣刀柄.....J
Indexable lock type end milling shank

铣削刀片 APMT..系列 Milling blade APMT.. A series of J34-54

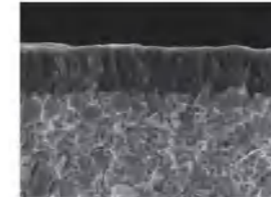
- 铣削刀片CTHQ.....J
Milling inserts
- 方肩铣刀.....J
Square shoulder milling cutter
- 可转位螺旋刃铣刀.....J
Indexable helical edge milling cutter
- 铣镗专用刀柄.....J
Special tool holder for milling and boring
- 铣镗专用刀片.....J
Special blade for milling and boring
- 可转位槽铣刀.....J
Indexable slot milling cutter
- 三面刃铣刀片.....J
Three side milling cutter blade
- 三面刃铣刀.....J
Three side milling cutter
- ISO标准螺纹铣刀片.....J
ISO standard thread milling blade
- 可转位螺纹铣刀.....J
Indexable thread milling cutter

铣削刀片材质简介 Milling Insert Grades

KP1230

高耐磨性晶粒基体与纳米结构的TiAlN涂层完美结合，具有良好的耐磨性和抗崩刃性。

Nano-structure TiAlN coating on micro-grain carbide, superior wear resistance and fracture resistance



KP1110

高韧性高硬度的硬质合金基体结合耐磨的TiAlN涂层，具有良好的韧性和耐磨性，适合中硬度钢件和铸铁的加工

The highly hard and thin grained substrate combines with wearing resistance AlTiN coating, it is optimized for impact resistance, suited for mid-high hardness steel and cast iron in milling



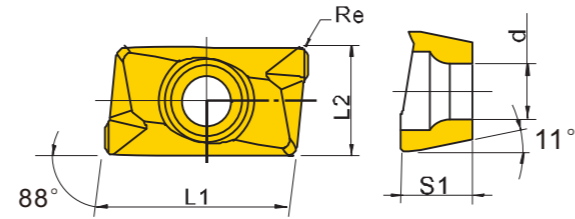
刀片材质一览表 Summary of Insert Grades

铣削加工 Milling

材质符号 Workpiece Material	P 钢 Steel				M 不锈钢 Stainless steel				K 铸铁 Cast Iron				N 有色金属 Nonferrous			S 耐热合金 NRSA				H 高硬材料 Hardness						
	ISO	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	N10	N20	N30	S01	S10	S20	S30	H01	H10	H20	
PVD 涂层硬质合金 PVD Coated Carbide				KP1230				KP1230				KP1230							KP6210							
硬质合金 Uncoated Carbide																										KP1210
金属陶瓷 Cermet				KT20				KT20				KT20														

铣削刀片
Milling inserts

APKT..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		Re	L1	L2	S1	d	KP1110	KP1230	KP2220	KT20	KW20
	APKT11T304-PM	0.4	12.24	6.5	3.6	2.8		●			
	APKT160408-PM	0.8	17.878	9.33	5.76	4.4		●			
	APKT1604PDR MA	0.8	17.878	9.33	5.76	4.4					●
钢 Steel							★	★		★	
不锈钢 Stainless Steel								★	★	★	
铸铁 Cast Iron								★		☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy									☆	☆	
淬硬钢 Hardened Steel								★			

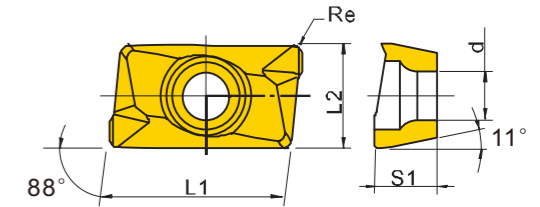
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

铣削刀片
Milling inserts

APMT..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		Re	L1	L2	S1	d	KP1110	KP1230	KP2220	KT20	KW20
	APMT1135PDER	0.8	11.25	6.2	3.5	2.8		●	●		
	APMT1604PDER	0.8	17.25	9.25	4.76	4.4		●	●		
钢 Steel							★	★		★	
不锈钢 Stainless Steel								★	★	★	
铸铁 Cast Iron								★		☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy									☆	☆	
淬硬钢 Hardened Steel								★			

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

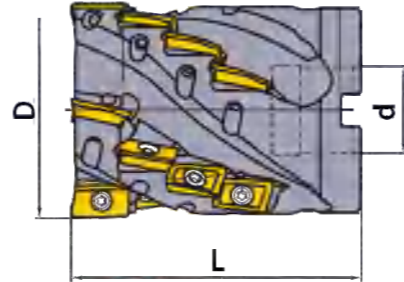
推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	200-360	0.1-0.3	
	180-280	KP1230	180-360	0.1-0.3	
	280-350	KP1230	160-340	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	110-270	0.1-0.3	
K 铸铁 Cast iron	180-250	KP1230	120-300	0.1-0.3	
N 铝合金 Aluminium Alloys		KW20	300	0.08-0.4	
H 高硬钢 Hardness	HRC50-60				

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	140-250	0.04-0.15	
	180-280	KP1230	130-250	0.04-0.15	
	280-350	KP1230	110-240	0.04-0.15	
M 不锈钢 Stainless Steel	<270	KP1230	80-190	0.04-0.15	
K 铸铁 Cast iron	180-250	KP1230	80-210	0.04-0.15	
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60	KP1110	70-120		

BAP玉米铣刀盘 BAP corn milling cutter head

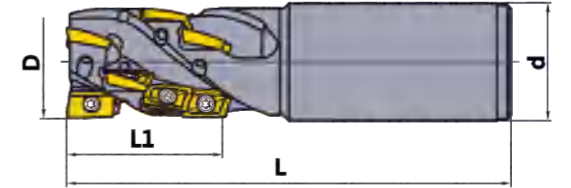


型号 Model	库存 Stock		外形尺寸 Size (mm)			刃数 The blade number	单价 The unit price	适用刀片 Apply to the blade
	R	L	d	D	L1			
BAP400R-D50-22d-42M-3T-9P	○		50	22	42	9	680	APMT1604
BAP400R-D50-22d-42M-4T-12P	○		50	22	42	12	700	
BAP400R-D50-22d-60M-4T-16P	○		50	22	60	16	1000	
BAP400R-D63-27d-42M-4T-12P	○		63	27	42	12	760	
BAP400R-D63-27d-60M-4T-12P	○		63	27	60	12	1100	
BAP400R-D63-27d-68M-4T-20P	○		63	27	68	20	1450	
BAP400R-D63-27d-95M-4T-20P	○		63	27	95	20	2800	
BAP400R-D80-32d-72M-5T-25P	○		80	32	72	25	1700	
BAP400R-D100-40d-72M-6T-30P	○		100	40	72	30	2400	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

BAP玉米铣刀杆 BAP corn milling cutter shank



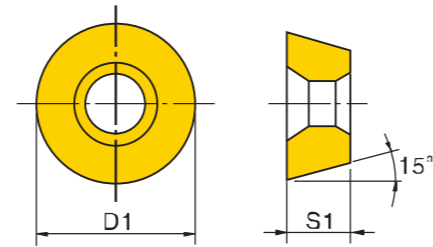
型号 Model	库存 Stock		外形尺寸 Size (mm)				单价 The unit price	刃数 The blade number	适用刀片 Apply to the blade
	R	L	d	D	L1	L			
BAP300R-C20-20-28M-120L-2T	○		20	20	28	120	600	2	AP1135 AP1604
BAP300R-C20-20-48M-130L-2T	○		20	20	48	130	700	2	
BAP300R-C20-20-68M-200L-2T	○		20	20	68	200	900	2	
BAP300R-C25-25-38M-130L-2T	○		25	25	38	130	640	2	
BAP300R-C25-25-48M-130L-2T	○		25	25	48	130	760	2	
BAP300R-C25-25-68M-200L-2T	○		25	25	68	200	960	2	
BAP300R-C32-32-48M-150L-3T	○		32	32	48	150	1000	3	
BAP400R-C32-32-42M-150L-2T	○		32	32	42	150	680	2	
BAP400R-C32-32-55M-150L-2T	○		32	32	55	150	680	2	
BAP400R-C32-32-70M-150L-2T	○		32	32	70	150	700	2	
BAP400R-C32-32-70M-220L-2T	○		32	32	70	220	1400	2	
BAP400R-C32-32-100M-220L-2T	○		32	32	100	220	1500	2	
BAP400R-C32-33-55M-150L-2T	○		32	33	55	150	680	2	
BAP400R-C32-33-70M-150L-2T	○		32	33	70	150	700	2	
BAP400R-C32-33-100M-200L-2T	○		32	33	100	200	1500	2	
BAP400R-C32-35-55M-150L-2T	○		32	35	55	150	700	2	
BAP400R-C32-35-70M-150L-2T	○		32	35	70	150	720	2	
BAP400R-C32-35-100M-200L-2T	○		32	35	100	200	1550	2	
BAP400R-C32-40-70M-150-2T	○		32	40	70	150	760	2	
BAP400R-C32-40-70M-150-3T	○		32	40	70	150	1000	3	
BAP400R-C32-40-100M-200-3T	○		32	40	100	200	1600	3	
BAP400R-C32-50-70M-150-3T	○		32	50	70	150	1300	3	
BAP400R-C40-50-70M-150-3T	○		40	50	70	150	1300	3	
BAP400R-C32-50-100M-175-3T	○		32	50	100	175	1700	3	
BAP400R-C40-50-100M-175-3T	○		40	50	100	175	1700	3	
BAP400R-C32-50-150M-220-3T	○		32	50	150	220	3200	3	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

铣削刀片 Milling inserts

RD..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades						
		D1	S1	KP1110	KP1230	KP2220	KT20	KW20
	RDKW0702MO	07	2.38	●				
	RDKW0803MO	08	3.18	●				
	RDMW10T3MO	10	3.97	●	●			
	RDMW1204MO	12	4.76	●	●			
钢 Steel				★	★		★	
不锈钢 Stainless Steel					★	★	★	
铸铁 Cast Iron					★		☆	
有色金属 Nonferrous Metal								★
耐热合金 Heat Resistant Alloy						☆	☆	
淬硬钢 Hardened Steel								★

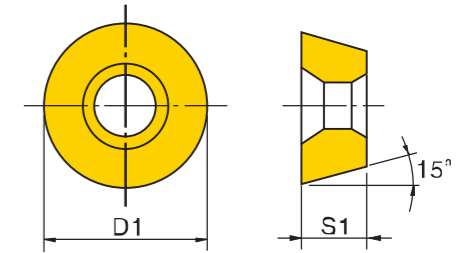
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

铣削刀片 Milling inserts

RP..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades						
		D1	S1	KP1110	KP1230	KP2220	KT20	KW20
	RPMW1003MOE	10	3.18		●			
	RPMW10T3MOE	10	3.97		●			
	RPMW1204MOE	12	4.76		●			
钢 Steel				★	★		★	
不锈钢 Stainless Steel					★	★	★	
铸铁 Cast Iron					★		☆	
有色金属 Nonferrous Metal								★
耐热合金 Heat Resistant Alloy						☆	☆	
淬硬钢 Hardened Steel								★

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

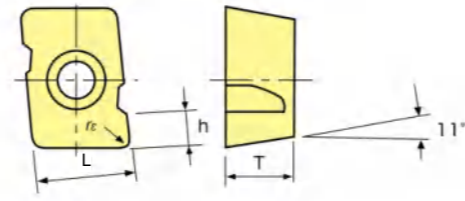
推荐切削条件表 Recommended Cutting Conditions


工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	200-360	0.1-0.45	
	180-280	KP1230	180-350	0.1-0.45	
	280-350	KP1230	170-340	0.1-0.45	
M 不锈钢 Stainless Steel	<270	KP1230	110-270	0.1-0.45	
K 铸铁 Cast iron	180-250	KP1230	120-300	0.1-0.45	
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60	KP1110	70-120		

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	200-360	0.1-0.45	
	180-280	KP1230	180-350	0.1-0.45	
	280-350	KP1230	170-340	0.1-0.45	
M 不锈钢 Stainless Steel	<270	KP1230	110-270	0.1-0.45	
K 铸铁 Cast iron	180-250	KP1230	120-300	0.1-0.45	
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

MPHW060308



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades								
		T	h	L	rE	KP1110	KP1230	KP2220	KT20	KW20
	MPHW060304	3.18	3	6.35	0.2		●			
	MPHW060308	3.18	3	6.35	0.2		●			
钢 Steel						★	★		★	
不锈钢 Stainless Steel							★	★	★	
铸铁 Cast Iron							★		☆	
有色金属 Nonferrous Metal										★
耐热合金 Heat Resistant Alloy								☆	☆	
淬硬钢 Hardened Steel						★				

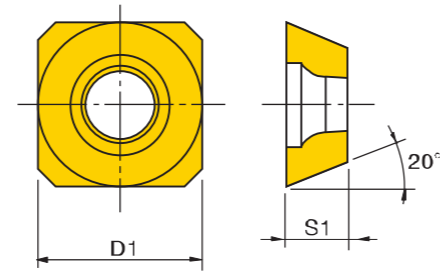
★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	130-300	0.1-0.15	0.1~0.3
	180-280	KP1230	100-250	0.1-0.15	0.1~0.3
	280-350	KP1230	90-250	0.1-0.12	0.1~0.3
M 不锈钢 Stainless Steel	<270	KP1230	100-250	0.1-0.15	0.1~0.3
K 铸铁 Cast iron	180-250	KP1230	130-250	0.1-0.2	0.1~0.3
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

铣削刀片
Milling inserts

SE..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades						
		D1	S1	KP1110	KP1230	KP2220	KT20	KW20
	SEKT1204AFEN-11	12.7	4.76		●			
	SEHW1204AFSN	12.7	4.76		●			
	SEHT1204AFFN	12.7	4.76					●
钢 Steel				★	★		★	
不锈钢 Stainless Steel					★	★	★	
铸铁 Cast Iron					★		☆	
有色金属 Nonferrous Metal								★
耐热合金 Heat Resistant Alloy						☆	☆	
淬硬钢 Hardened Steel					★			

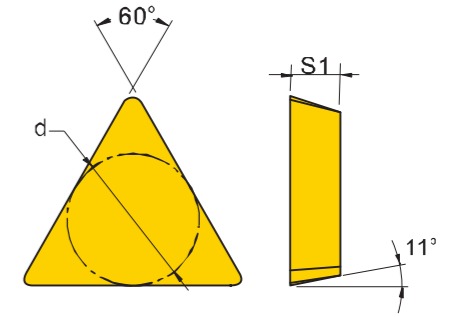
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

铣削刀片
Milling inserts

TP..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades						
		d	S1	KP1110	KP1230	KP2220	KT20	KW20
	TPUN160308	9.525	3.18		●			
	TPKN1603PDTR	9.525	3.18		●			
	TPKR1603PDTR	9.525	3.18		●			
	TPKN2204PDTR	12.7	4.76		●			
	TPKR22204PDTR	12.7	4.76		●			
钢 Steel					★	★		★
不锈钢 Stainless Steel						★	★	
铸铁 Cast Iron						★		☆
有色金属 Nonferrous Metal								★
耐热合金 Heat Resistant Alloy							☆	☆
淬硬钢 Hardened Steel					★			

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

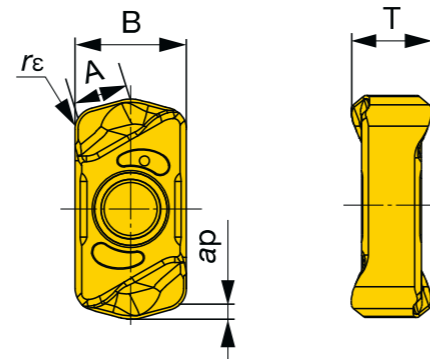
推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	200-360	0.1-0.3	
	180-280	KP1230	180-350	0.1-0.3	
	280-350	KP1230	170-340	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	110-270	0.1-0.3	
K 铸铁 Cast iron	180-250	KP1230	120-300	0.1-0.3	
N 铝合金 Aluminium Alloys		KW20	300	0.1-0.4	
H 高硬钢 Hardness	HRC50-60				

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	200-360	0.1-0.3	
	180-280	KP1230	180-350	0.1-0.3	
	280-350	KP1230	170-340	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	100-250	0.1-0.3	
K 铸铁 Cast iron	180-250	KP1230	120-300	0.1-0.3	
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

LNMU0303快进给铣刀片 LNMU0303 High feed milling inserts

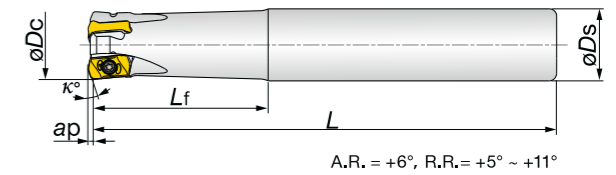
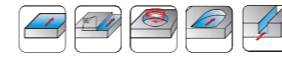


刀片外形 Insert shape	型号 Model	库存 Stock	rε	尺寸与材质 Size and Grades										
				最大切深量 (mm)	A	B	T	KP1110	KP1230	KP2220	KT20	KW20		
	LNMU0303ZER-MJ	●	1.2	1	3.2	6	4.3		●					
	LNMU0303ZER-ML	●	1.2	1	3.2	6	4.3		●					
钢 Steel								★	★	★	☆			
不锈钢 Stainless Steel									★		★			
铸铁 Cast Iron									★	☆				
有色金属 Nonferrous Metal										☆				★
淬硬钢 Hardened Steel								★			★			

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

EXN03快进给铣刀杆 EXN03 High Feedrate End Mill



型号 Model	库存 Stock	最大ap	∅Dc	z	∅Ds	L	Lf	K°	Kg	刀片
EXN03R016M16.0-02	●	1	16	2	16	160	40	15	0.2	LNMU03...
EXN03R020M20.0-03	●	1	20	3	20	160	50	17	0.3	LNMU03...
EXNO3R021M20.0-03	●	1	21	3	20	160	50	17	0.4	LNMU03...
EXNO3R021M20.0-03L	●	1	21	3	20	200	50	17	0.5	LNMU03...
EXNO3R025M25.0-04	●	1	25	4	25	160	50	17	0.5	LNMU03...
EXN03R025M25.0-04L	●	1	25	4	25	200	50	17	0.6	LNMU03...
EXN03R026M25.0-04	●	1	26	4	25	160	50	17	0.5	LNMU03...
EXN03R026M25.0-04L	●	1	26	4	25	200	50	17	0.7	LNMU03...
EXN03R032M32.0-05	●	1	32	5	32	160	50	17	0.8	LNMU03...
EXN03R032M32.0-05L	●	1	32	5	32	200	50	17	1.1	LNMU03...
EXN03R033M32.0-05	●	1	33	5	32	160	50	17	0.9	LNMU03...
EXN03R033M32.0-05L	●	1	33	5	32	200	50	17	1.0	LNMU03...
EXN03R035M32.0-05	●	1	35	5	32	160	50	17	0.9	LNMU03...
EXN03R035M32.0-05L	●	1	35	5	32	200	50	17	1.2	LNMU03...

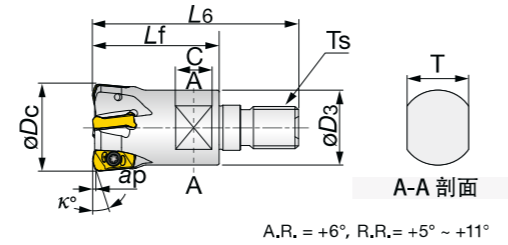
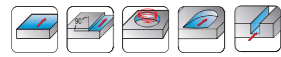
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

备件 The spare parts

型号 model	锁紧螺钉 Lock screw	润滑剂 lubricant	扳手 wrench
EXN03...	CSPB-2.5	M-1000	IP-8D

HXN03快进给模块式铣刀 HXN03 High Feedrate Modular Endmill Head



型号 Model	库存 Stock	最大 ap	ØDc	z	L6	Lf	C	T	ØD3	κ°	Ts	Kg	刀片
HXN03R016MM08-02	●	1	16	2	42	25	8	10	12.8	15	M8	0.03	LNMU03...
HXN03R017MM08-02	●	1	17	2	42	25	8	10	14.5	17	M8	0.04	LNMU03...
HXN03R020MM10-03	●	1	20	3	49	30	10	15	17.8	17	M10	0.06	LNMU03...
HXN03R021MM10-03	●	1	21	3	49	30	10	15	17.8	17	M10	0.06	LNMU03...
HXN03R025MM12-04	●	1	25	4	57	35	10	17	20.8	17	M12	0.1	LNMU03...
HXN03R026MM12-05	●	1	26	4	57	35	10	17	20.8	17	M12	0.11	LNMU03...
HXN03R032MM1 6-05	●	1	32	5	63	40	12	22	28.8	17	M16	0.2	LNMU03...
HXN03R033MM1 6-05	●	1	33	5	63	40	12	22	28.8	17	M16	0.21	LNMU03...

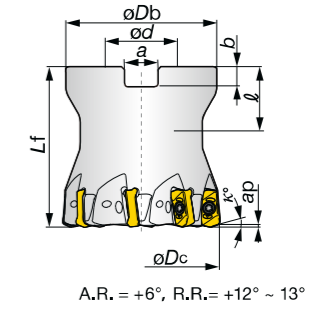
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

备件 The spare parts

型号 model	锁紧螺钉 Lock screw	润滑剂 lubricant	扳手 wrench
HXN03...	CSPB-2.5	M-1000	IP-8D

TXN03快进给铣刀盘 TXN03 High Feedrate Face Mill



型号 Model	库存 Stock	最大 ap	ØDc	z	ØDb	Ød	ℓ	Lf	b	a	κ°	Kg	刀片
TXN03R040M16.0E05	●	1	40	5	35	16	18	40	5.6	8.4	17	0.2	LNMU03...
TXN03R050M22.0E08	●	1	50	8	47	22	20	50	6.3	10.4	17	0.5	LNMU03...
TXN03R063M22.2-08	●	1	63	8	47	22	20	50	5	8	17	0.5	LNMU03...

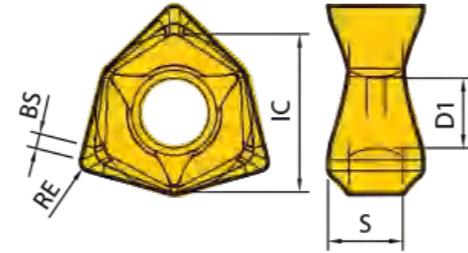
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

备件 The spare parts

型号 model	锁紧螺钉 Lock screw	润滑剂 lubricant	中心螺栓 The center bolt	扳手 wrench
TXN03R04...	CSPB-2.5	M-1000	CM8X30H	IP-8D
TXN03R05...	CSPB-2.5	M-1000	CM10X30H	IP-8D

WNMU0806铣刀片 WNMU milling inserts



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		RE	IC	S	D1	BS	KP1110	KP1230	KP2220	KT20	KW20
	WNMU080604EN-GM	0.4	14.02	6.65	6.2	1.7		●			
	WNMU080608EN-GM	0.8	14.02	6.65	6.2	1.3		●			●
钢 Steel							★	★		★	
不锈钢 Stainless Steel								★	★	★	
铸铁 Cast Iron								★		☆	
有色金属 Nonferrous Metal										★	
耐热合金 Heat Resistant Alloy									☆	☆	
淬硬钢 Hardened Steel							★				

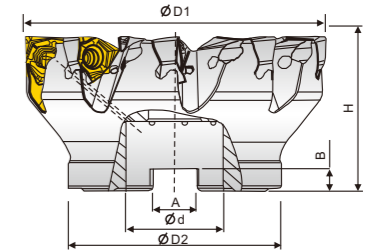
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

MFWN 双面6刀尖低阻力90°刀盘 MFWN Double sided 6edge Face mill



低切削力，切刃锋利
抗震能力强
Sharp cutting due to lower cutting forces
Resistant to chattering and applicable to long overhang



型号 Model	库存 Stock	尺寸 (mm) Dimensions						齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	价格 Price
		D	D2	d	A	B	H					
MFWN0806-050R-4T-M	●	50	42	22	10.4	6.3	40	4	WNMU 080608N	M5	T20	
MFWN0806-063R-4T-M	●	63	47	22	10.4	6.3	40	4				
MFWN0806-063R-5T-M	●	63	47	22	10.4	6.3	40	5				
MFWN0806-080R-5T-M	●	80	60	27	12.4	7	50	5				
MFWN0806-080R-6T-M	●	80	60	27	12.4	7	50	6				
MFWN0806-100R-7T-M	●	100	70	32	14.4	8	50	7				
MFWN0806-125R-8T-M	●	125	85	40	16.4	9	63	8				
MFWN0806-160R-10T-M	●	160	105	40	16.4	9	63	10				
MFWN0806-200R-12T-M	●	200	140	60	25.7	14	63	12				

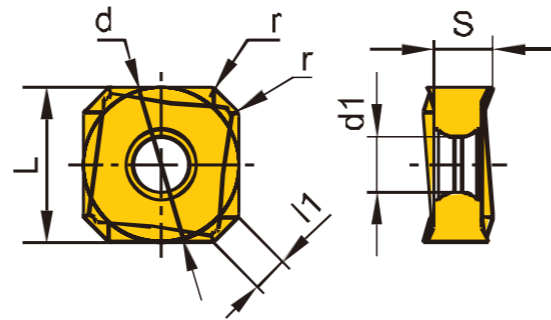
* 刀片需单独订购。Blades to be ordered separately.


● 标准库存 Standard inventory ○ 订单生产 The order production

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

SNGX1205铣刀片 SOKU1205 milling inserts



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		RE	L	S	L1	d	KP1110	KP1230	KP2220	KT20	KW20
	SNGX1206AZER-EMF	0.8	12.7	6.98	1.8	12.7		●			
钢 Steel							★	★		★	
不锈钢 Stainless Steel								★	★	★	
铸铁 Cast Iron								★		☆	
有色金属 Nonferrous Metal										★	
耐热合金 Heat Resistant Alloy									☆	☆	
淬硬钢 Hardened Steel							★				

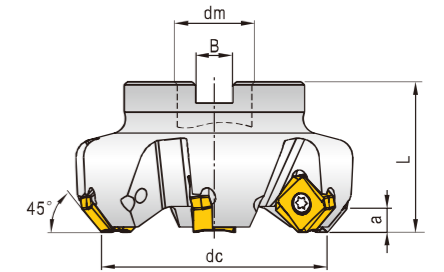
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

FM45可转位面铣刀 FM45 indexable face milling cutter



- 采用螺钉式压紧结构，容屑空间大，排屑流畅。
- Screw type compression structure, large space for chip, smooth chip removal.
- 刀体大前角设计，切削轻快。
- Large rake design, easy cutting.
- 适用于轻、中型铣削加工。
- Suitable for light and medium milling.



型号 Model	库存 Stock	尺寸 (mm) Dimensions					齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	a	B	L					
FM45-50-22-5T-SN12	○	50	22	6.5	10.4	40	5	SN..1206..	C040A11S	WT15	0.5
FM45-63-22-6T-SN12	○	63	22	6.5	10.4	40	6				0.6
FM45-80-27-8T-SN12	○	80	27	6.5	12.4	50	8				1.1
FM45-100-32-10T-SN12	○	100	32	6.5	14.4	50	10				1.8
FM45-125-40-12T-SN12	○	125	40	6.5	16.4	63	12				3.7
FM45-160-40-14T-SN12	○	160	40	6.5	16.4	63	14				4.5

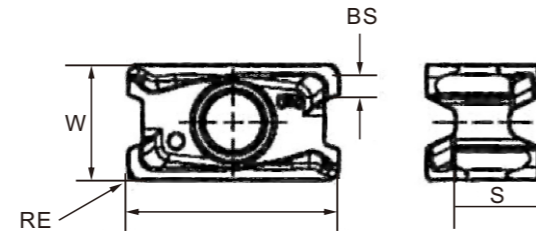
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

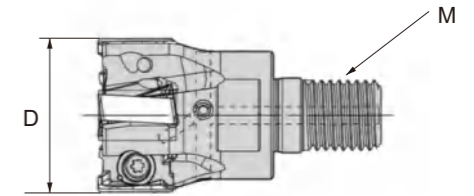
LNPU1104铣刀片 LNPU1104 milling inserts



刀片外形 Insert shape	型号 Model	库存 Stock	尺寸与材质 Size and Grades												
			L1	S	W	BS	RE	KP1110	KP1230	KP2220	KT20	KW20			
	LNPU110408ERGEKP1230	○	12.1	4.83	6.6	0.9	0.8		●						
钢 Steel									★	★		★			
不锈钢 Stainless Steel										★	★	★			
铸铁 Cast Iron										★		☆			
有色金属 Nonferrous Metal															★
耐热合金 Heat Resistant Alloy												☆	☆		
淬硬钢 Hardened Steel									★						

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

HM4模块式铣刀 HM4 Modular Endmill Head



型号 Model	库存 Stock	外形尺寸 Size (mm)		刃数 Teeth	刀片型号 The blade model
		D	M		
HM4-D16-M8-2T	○	16	8	2	LNPU1104
HM4-D17-M8-2T	○	17	8	2	
HM4-D20-M10-3T	○	20	10	3	
HM4-D21-M10-3T	○	21	10	3	
HM4-D25-M12-4T	○	25	12	4	
HM4-D26-M12-4T	○	26	12	4	
HM4-D32-M16-5T	○	32	16	5	
HM4-D35-M16-5T	○	35	16	5	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

备件 The spare parts

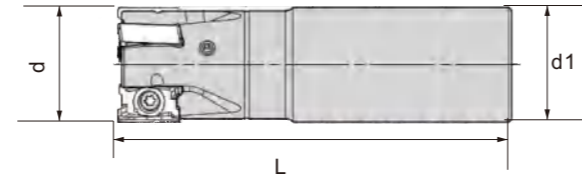
型号 model	锁紧螺钉 Lock screw	润滑剂 lubricant	扳手 wrench
HM4...	CSPB-2.5	M-1000	IP-8D

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

EM4铣刀杆

EM4 End Mill



型号 Model	库存 Stock		外形尺寸 Size (mm)			刃数 Teeth	刀片型号 The blade model
	R	L	d1	d	L		
EM4-C16-16-120-2T-C	○		16	16	120	2	LNPU1104
EM4-C16-16-120-2T	○		16	16	120	2	
EM4-C16-17-120-2T	○		16	17	120	2	
EM4-C16-16-160-2T-C	○		16	16	160	2	
EM4-C20-20-160-2T	○		20	20	160	2	
EM4-C20-21-150-3T	○		20	21	150	3	
EM4-C25-26-150-4T	○		25	26	150	4	
EM4-C25-26-200-4T	○		25	26	200	4	
EM4-C25-26-250-4T	○		25	26	250	4	
EM4-C25-30-150-4T	○		25	30	150	4	
EM4-C25-30-200-4T	○		25	30	200	4	
EM4-C32-35-150-5T	○		32	35	150	5	
EM4-C32-35-200-5T	○		32	35	200	5	
EM4-C32-35-250-5T	○		32	35	250	5	

* 刀片需单独订购。Blades to be ordered separately.

●标准库存 Standard inventory ○订单生产 The order production

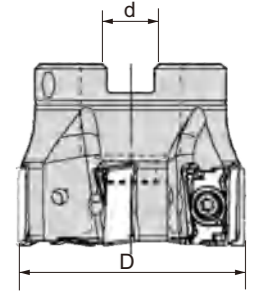
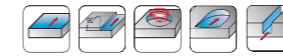
注: -C表示带内冷
Note: -C indicates in-band cold

备件 The spare parts

型号 model	锁紧螺钉 Lock screw	润滑剂 lubricant	扳手 wrench
EM4...	CSPB-2.5	M-1000	IP-8D

TM4铣刀盘

TM4 Face Mill



型号 Model	库存 Stock		外形尺寸 Size (mm)		刃数 Teeth	刀片型号 The blade model
	R	L	D	d		
TM4-D50-22-5T	○		50	22	5	LNPU1104
TM4-D63-22-6T	○		63	22	6	
TM4-D80-27-8T	○		80	27	8	

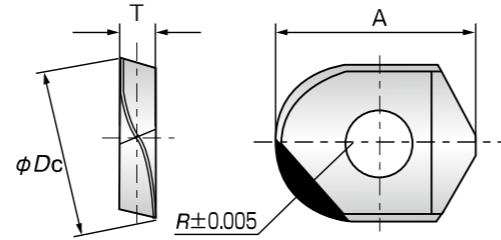
* 刀片需单独订购。Blades to be ordered separately.

●标准库存 Standard inventory ○订单生产 The order production

备件 The spare parts

型号 model	锁紧螺钉 Lock screw	润滑剂 lubricant	扳手 wrench
TM4...	CSPB-2.5	M-1000	IP-8D

ZPFG

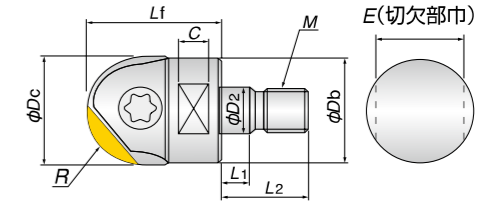


刀片外形 Insert shape	型号 Model	库存 Stock	尺寸与材质 Size and Grades										
			R	A	ØDc	T	KP1110	KP1230	KP2220	KT20	KW20		
	ZPFG160	○	8	16.6	16	4.2		●					
	ZPFG200	○	10	20.3	20	5.2		●					
	ZPFG250	○	12.5	24.1	25	6.2		●					
	ZPFG300	○	15	29.2	30	7.2		●					
钢 Steel								★	★		★		
不锈钢 Stainless Steel									★	★			
铸铁 Cast Iron									★		☆		
有色金属 Nonferrous Metal													★
耐热合金 Heat Resistant Alloy											☆	☆	
淬硬钢 Hardened Steel								★					

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

ABPFM..



型号 Model	库存 Stock		尺寸 Size (mm)											刀数	始入装置
	R	L	ØDc	R	Lf	ØD2	M	ØDb	L1	L2	C	E			
ABPFM16	○		16	8	32	8.5	M8	12.8	5.5	17	8	10	1	ZPFG160	
ABPFM20	○		20	10	38	10.5	M10	17.8	5.5	19	10	15	1	ZPFG200	
ABPFM25	○		25	12.5	38	12.5	M12	20.8	5.5	22	10	17	1	ZPFG250	
ABPFM30	○		30	15	43	17	M16	28.8	6	23	12	22	1	ZPFG300	

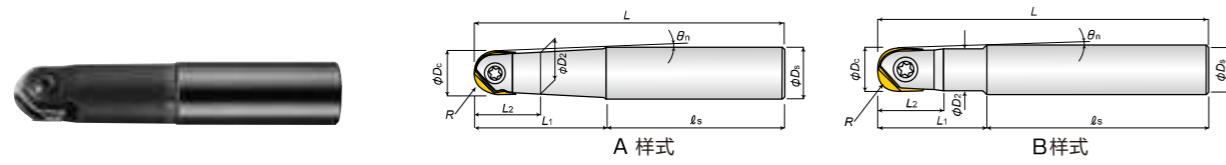
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

ABPF..S..(L/L...)

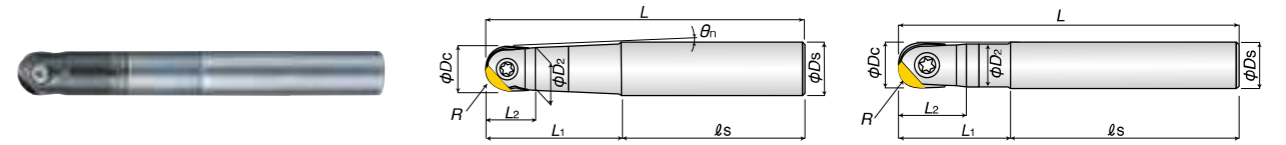


型号 Model	库存 Stock		尺寸 Size (mm)										刃数	形状	始入装置
	R	L	ØDc	R	L	ØDs	L ₂	L ₁	ØD ₂	ℓ _s	θ _n				
ABPF16S20	○		16	8	130	20	27	50	15	80	2.8°	1	A	ZPFG160	
ABPF20S25	○		20	10	140	25	35	60	19	80	2.9°	1	A	ZPFG200	
ABPF25S32	○		25	12.5	150	32	43	70	24	80	3.5°	1	A	ZPFG250	
ABPF30S32	○		30	15	160	32	55	80	29	80	1.2°	1	A	ZPFG300	
ABPF16S20L	○		16	8	160	20	27	65	15	95	2.1°	1	A	ZPFG160	
ABPF20S25L	○		20	10	180	25	35	80	19	100	2.1°	1	A	ZPFG200	
ABPF20S20L120	○		20	10	220	20	35	120	19	100	-	1	B	ZPFG200	
ABPF20S20L150	○		20	10	250	20	35	150	19	100	-	1	B	ZPFG200	
ABPF25S32L	○		25	12.5	200	32	43	90	24	110	2.6°	1	A	ZPFG250	
ABPF25S32L150	○		25	12.5	250	32	43	150	24	100	1.5°	1	B	ZPFG250	
ABPF30S32L	○		30	15	220	32	55	100	29	120	0.7°	1	A	ZPFG300	
ABPF30S32L150	○		30	15	250	32	55	150	29	100	0.5°	1	B	ZPFG300	
ABPF30S32L200	○		30	15	300	32	55	200	29	100	0.3°	1	B	ZPFG300	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

ABPF..S..W(./....)

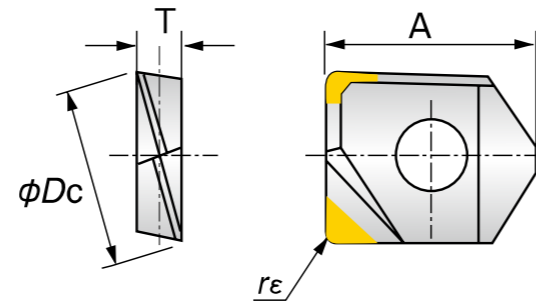


型号 Model	库存 Stock		尺寸 Size (mm)										刃数	形状	始入装置
	R	L	ØDc	R	L	ØDs	L ₂	L ₁	ℓ _s	θ _n					
ABPF16S16W60	○		16	8	130	16	27	60	3.8	15	70	-	1	B	ZPFG160
ABPF16S16WL80	○		16	8	160	16	27	80	5	15	80	-	1	B	ZPFG160
ABPF16S16WL100	○		16	8	200	16	27	100	6.3	15	100	-	1	B	ZPFG160
ABPF16S16WE	○		16	8	200	16	27	120	7.5	15	80	-	1	B	ZPFG160
ABPF16S16WE150	○		16	8	220	16	27	150	9.4	15	70	-	1	B	ZPFG160
ABPF16S20WLT100	○		16	8	165	20	27	100	6.3	15	65	1.25°	1	A	ZPFG200
ABPF20S20W80	○		20	10	160	20	35	80	4	19	80	-	1	B	ZPFG200
ABPF20S20WL100	○		20	10	220	20	35	100	5	19	120	-	1	B	ZPFG200
ABPF20S20WL120	○		20	10	220	20	35	120	6	19	100	-	1	B	ZPFG200
ABPF20S20WE	○		20	10	250	20	35	150	7.5	19	100	-	1	B	ZPFG200
ABPF20S20WE220	○		20	10	300	20	35	220	11	19	80	-	1	B	ZPFG200
ABPF20S25WLT115	○		20	10	195	25	35	115	5.8	19	80	1.37°	1	A	ZPFG250
ABPF25S25W100	○		25	12.5	220	25	43	100	4	24	120	-	1	B	ZPFG250
ABPF25S25WL120	○		25	12.5	220	25	43	120	4.8	24	100	-	1	B	ZPFG250
ABPF25S25WL150	○		25	12.5	250	25	43	150	6	24	100	-	1	B	ZPFG250
ABPF25S25WE	○		25	12.5	300	25	43	190	7.6	24	110	-	1	B	ZPFG250
ABPF25S32WLT135	○		25	12.5	215	32	43	135	5.4	24	80	1.64°	1	A	ZPFG300
ABPF30S32W100	○		30	15	180	32	55	100	3.3	29	80	0.7°	1	B	ZPFG300
ABPF30S32W120	○		30	15	220	32	55	120	4	29	100	0.6°	1	B	ZPFG300
ABPF30S32WL150	○		30	15	250	32	55	150	5	29	100	0.4°	1	B	ZPFG300
ABPF30S32WE	○		30	15	350	32	55	230	7.7	29	120	0.3°	1	B	ZPFG300
ABPF30S32WLT160	○		30	15	240	32	55	160	5.3	29	80	0.4°	1	A	ZPFG300

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

ZCFW



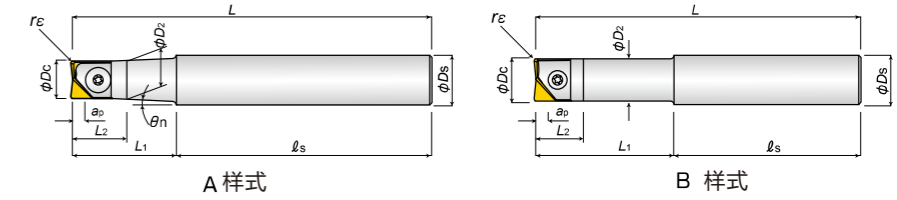
刀片外形 Insert shape	型号 Model	库存 Stock	尺寸与材质 Size and Grades									
			rε	A	ØDc	T	KP1110	KP1230	KP2220	KT20	KW20	
	ZCFW160-R1.0	○	1.0	16.6	16	4.2		●				
	ZCFW160-R2.0	○	2.0	16.6	16	4.2		●				
	ZCFW200-R1.0	○	1.0	19.9	20	5.2		●				
	ZCFW200-R2.0	○	2.0	19.9	20	5.2		●				
	ZCFW250-R1.0	○	1.0	22.6	25	6.2		●				
	ZCFW250-R2.0	○	2.0	22.6	25	6.2		●				
	ZCFW300-R1.0	○	1.0	27.2	30	7.2						
	ZCFW300-R2.0	○	2.0	27.2	30	7.2						
钢 Steel							★	★		★		
不锈钢 Stainless Steel								★	★			
铸铁 Cast iron								★		☆		
有色金属 Nonferrous Metal												★
耐热合金 Heat Resistant Alloy										☆	☆	
淬硬钢 Hardened Steel								★				

★ 首选 Preferred ☆ 可选 optional ● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表
Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

ARPF..S..(.../..)



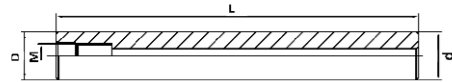
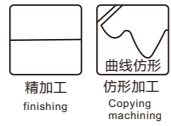
型号 Model	库存 Stock		尺寸 Size (mm)								刃数	形状	始入装置	
	R	L	ØDc	L	ØDs	ap	L2	L1	θn	ØD2				ℓs
ARPF16S16	○		16	130	16	5.0	27	50	-	15	80	1	B	ZCFW160-R..
ARPF20S20	○		20	140	20	6.0	35	60	-	19	80	1	B	ZCFW200-R..
ARPF25S25	○		25	150	25	8.0	43	70	-	24	80	1	B	ZCFW250-R..
ARPF30S32	○		30	160	32	10.0	55	80	-	29	80	1	B	ZCFW300-R..
ARPF16S16L	○		16	165	16	5.0	27	65	-	15	100	1	B	ZCFW160-R..
ARPF20S20L	○		20	180	20	6.0	35	80	-	19	100	1	B	
ARPF20S20L120	○		20	220	20	6.0	35	120	-	19	100	1	B	ZCFW200-R..
ARPF20S20L150	○		20	250	20	6.0	35	150	-	19	100	1	B	
ARPF25S25L	○		25	200	25	8.0	43	90	-	24	110	1	B	ZCFW250-R..
ARPF25S32L150	○		25	250	32	8.0	43	150	-	24	100	1	B	
ARPF30S32L	○		30	220	32	10.0	55	100	-	29	120	1	B	
ARPF30S32L150	○		30	250	32	10.0	55	150	-	29	100	1	B	ZCFW300-R..
ARPF30S32L200	○		30	300	32	10.0	55	200	-	29	100	1	B	
ARPF16S16E	○		16	200	16	5.0	27	65	-	15	135	1	B	ZCFW160-R..
ARPF20S20E	○		20	250	20	6.0	35	80	-	19	170	1	B	ZCFW200-R..
ARPF25S25E	○		25	300	25	8.0	43	90	-	24	210	1	B	ZCFW250-R..
ARPF25S32E	○		25	300	32	8.0	43	100	2°	24	200	1	A	ZCFW250-R..
ARPF30S32E	○		30	350	32	10.0	55	100	-	29	250	1	B	ZCFW300-R..
ARPF30S42E	○		30	350	42	10.0	55	120	3°	29	230	1	A	ZCFW300-R..
ARPF16S16WE	○		16	200	16	5.0	27	120	-	15	80	1	B	ZCFW160-R..
ARPF20S20WE	○		20	250	20	6.0	35	150	-	19	100	1	B	ZCFW200-R..
ARPF25S25WE	○		25	300	25	8.0	43	190	-	24	110	1	B	ZCFW250-R..
ARPF30S32WE	○		30	350	32	10.0	55	230	-	29	120	1	B	ZCFW300-R..

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 standard inventory ○ 订单生产 The order production

直杆系列-鎖牙式抗震鎢鋼刀杆

Straight bar series - locking type seismic tungsten steel cutter bar



型号 Model	库存 Stock		尺寸 Size (mm)					
	R	L	M	D	d	L	L1	
8-M4-100	○		M4	8	8	100		
10-M5-100	○		M5	10	10	100		
10-M5-150	○		M5	10	10	150		
12-M6-100	○		M6	12	12	100		
12-M6-150	○		M6	12	12	150		
12-M6-200	○		M6	12	12	200		
15-M8-100	○		M8	15	15	100		
15-M8-150	○		M8	15	15	150		
15-M8-200	○		M8	15	15	200		
16-M8-100	○		M8	16	16	100		
16-M8-150	○		M8	16	16	150		
16-M8-200	○		M8	16	16	200		
16-M8-250	○		M8	16	16	250		
16-M8-300	○		M8	16	16	300		
19-M10-150	○		M10	19	19	150		
19-M10-200	○		M10	19	19	200		
19-M10-250	○		M10	19	19	250		
20-M10-100	○		M10	20	20	100		
20-M10-150	○		M10	20	20	150		
20-M10-200	○		M10	20	20	200		
20-M10-250	○		M10	20	20	250		
20-M10-300	○		M10	20	20	300		
24-M12-150	○		M12	24	24	150		
24-M12-200	○		M12	24	24	200		
24-M12-250	○		M12	24	24	250		
24-M12-300	○		M12	24	24	300		
25-M12-150	○		M12	25	25	150		
25-M12-200	○		M12	25	25	200		
25-M12-250	○		M12	25	25	250		
25-M12-300	○		M12	25	25	300		
32-M16-150	○		M16	32	32	150		
32-M16-200	○		M16	32	32	200		
32-M16-250	○		M16	32	32	250		
32-M16-300	○		M16	32	32	300		
32-M16-350	○		M16	32	32	350		
32-M16-400	○		M16	32	32	400		

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

1. 提高抗震强度，加工尺寸精密，工件表面光洁度高，
2. 适合悬伸工件加工。
3. 刀片切削均匀提高刀片寿命，减少加工过程中因为周跳导致的振纹。
4. 搭配可换式螺纹头，重复装夹精度高，适合开粗和精铣。

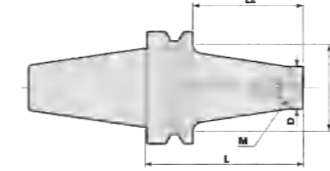
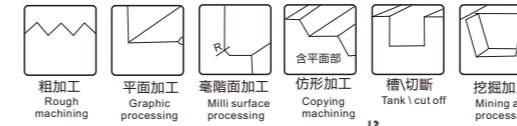
5. 刀杆可以对应不同型号刀头，与刀柄多种组合，即使刀具部分损坏也可立即更换，更经济。

1. Improve seismic strength, precision processing size, high surface finish of the workpiece,
2. Suitable for overhanging workpiece processing.
3. The uniform cutting of the blade improves the service life of the blade and reduces the vibration marks caused by the cycle jump in the processing process.
4. Matched with replaceable thread head, repeat clamping precision is high, suitable for rough and fine milling.
5. The tool holder can correspond to different types of tool head, and a variety of combinations with the handle, even if the tool part damage can be replaced immediately, more economical.

产品特性/Product features

可转位锁牙式立铣刀柄

Indexable lock type end milling shank



型号 Model	库存 Stock		尺寸 Size (mm)					
	R	L	M	D	DC	L	L1	L2
BT30-M6-50L	○		6	12	17	50	/	30
BT30-M6-100L	○		6	12	17	100	/	80
BT30-M8-45L	○		8	15	17	45	/	25
BT30-M8-50L	○		8	15	17	50	/	30
BT30-M8-100L	○		8	15	17	100	/	80
BT30-M10-45L	○		10	19	21	45	/	25
BT30-M10-50L	○		10	19	21	50	/	30
BT30-M10-100L	○		10	19	21	100	/	80
BT30-M12-60L	○		12	24	25	60	/	40
BT30-M12-100L	○		12	24	26	100	/	80
BT30-M16-45L	○		16	30	33	45	/	30
BT30-M16-60L	○		16	30	33	60	/	40
BT30-M16-100L	○		16	30	32	100	/	80
BT40-M8-70L	○		8	15	17	70	/	45
BT40-M8-100L	○		8	15	17	100	/	75
BT40-M8-150L	○		8	15	22	150	50	125
BT40-M8-200L	○		8	15	22	200	70	175
BT40-M10-70L	○		10	19	20	70	/	45
BT40-M10-100L	○		10	19	25	100	/	75
BT40-M10-150L	○		10	19	25	150	/	125
BT40-M10-200L	○		10	19	31	200	70	175
BT40-M12-70L	○		12	24	26	70	/	45
BT40-M12-100L	○		12	24	32	100	/	75
BT40-M12-150L	○		12	24	37	150	50	125
BT40-M12-200L	○		12	24	68	200	/	175
BT40-M16-70L	○		16	30	32	70	/	45
BT40-M16-100L	○		16	30	36	100	30	75
BT40-M16-150L	○		16	30	41	150	/	125
BT40-M16-200L	○		16	30	46	200	70	175

* 刀片需单独订购。Blades to be ordered separately.

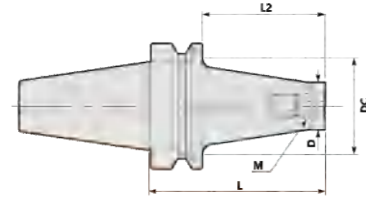
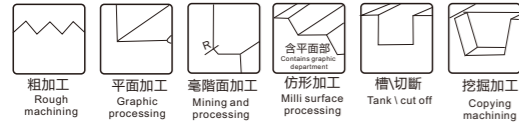
● 标准库存 Standard inventory ○ 订单生产 The order production

1. 模块化组合，刀头与刀柄螺纹连接，沉头结合
2. 刀柄直接连接刀头，无需筒夹，降低多次装夹精度公差
3. 刀片切削均匀提高刀片寿命，减少加工过程中因为周跳导致的振纹
4. 可换式刀头，重复装夹精度高，适合开粗和精铣
5. 刀头可以对应不同型号刀片，与刀柄多种组合，即使刀具部分损坏也可立即更换，更经济

产品特性/Product features

1. Modular combination, threaded connection of tool head and handle, countersunk head
2. The tool holder is directly connected with the tool head, without collet, reducing the precision tolerance of multiple clamping
3. The blade cutting evenly improves the blade poison life and reduces the vibration marks caused by cycle jump in the processing process
4. Changeable cutter head, high repeatable clamping accuracy, suitable for rough and fine milling
5. Knife head can correspond to different types of blade, and a variety of combinations with the handle, even if the tool is damaged, it can be replaced immediately, more economical

可轉位鎖牙式立銑刀柄 Indexable lock type end milling shank



型号 Model	库存 Stock		尺寸 Size (mm)					
	R	L	M	D	DC	L	L1	L2
BT50-M8-100L	○		8	16	32	100	/	65
BT50-M8-150L	○		8	16	32	150	/	115
BT50-M8-200L	○		8	16	32	200	/	165
BT50-M8-250L	○		8	16	37	250	/	215
BT50-M8-300L	○		8	16	37	300	/	265
BT50-M10-100L	○		10	20	37	100	/	65
BT50-M10-150L	○		10	20	37	150	/	115
BT50-M10-200L	○		10	20	37	200	/	165
BT50-M10-250L	○		10	20	37	250	/	215
BT50-M10-300L	○		10	20	37	300	85	265
BT50-M12-100L	○		12	24	40	100	/	65
BT50-M12-150L	○		12	24	40	150	/	115
BT50-M12-200L	○		12	24	40	200	/	165
BT50-M12-250L	○		12	24	50	250	/	215
BT50-M12-300L	○		12	24	50	300	105	265
BT50-M16-100L	○		16	29	50	100	/	65
BT50-M16-150L	○		16	29	50	150	/	115
BT50-M16-200L	○		16	29	50	200	65	165
BT50-M16-250L	○		16	29	55	250	85	215
BT50-M16-300L	○		16	29	55	300	105	265

* 刀片需单独订购。Blades to be ordered separately.

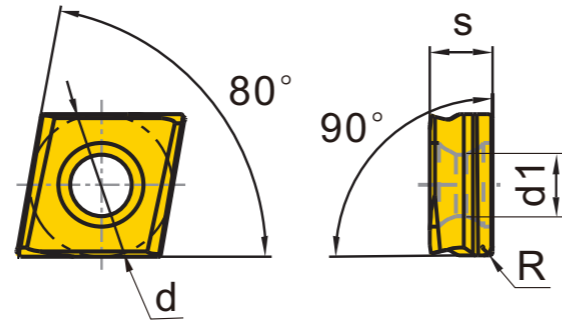
● 标准库存 Standard inventory ○ 订单生产 The order production

1. 模块化组合，刀头与刀柄螺纹连接，沉头结合
2. 刀柄直接连接刀头，无需筒夹，降低多次装夹精度公差
3. 刀片切削均匀提高刀片寿命，减少加工过程中因为周跳导致的振纹
4. 可换式刀头，重复装夹精度高，适合开粗和精铣
5. 刀头可以对应不同型号刀片，与刀柄多种组合，即使刀具部分损坏也可立即更换，更经济

产品特性/Product features

1. Modular combination, threaded connection of tool head and handle, countersunk head
2. The tool holder is directly connected with the tool head, without collet, reducing the precision tolerance of multiple clamping
3. The blade cutting evenly improves the blade poison life and reduces the vibration marks caused by cycle jump in the processing process
4. Changeable cutter head, high repeatable clamping accuracy, suitable for rough and fine milling
5. Knife head can correspond to different types of blade, and a variety of combinations with the handle, even if the tool is damaged, it can be replaced immediately, more economical

铣削刀片 Milling inserts CNCQ..



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		R	d	s	d1	KP1110	KP1230	KP2220	KP3220	KT20	KW20
	CNCQ090508NF	0.8	9.525	5.56	4.4		●		●		
	CNCQ120508NF	0.8	12.7	5.56	5.5		●		●		
钢 Steel						★	★			★	
不锈钢 Stainless Steel							★	★		★	
铸铁 Cast Iron							★		★	☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy								☆		☆	
淬硬钢 Hardened Steel						★					

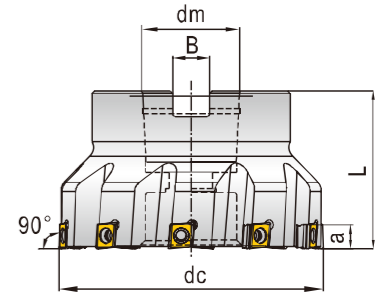
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

方肩铣刀 Square shoulder milling cutter



- 采用螺钉式压紧结构，容屑空间大，排屑流畅。
- Screw type compression structure, large space for chip, smooth chip removal.
- 大前角刀片，切削轻快。
- Large rake blade for easy cutting.
- 适用于轻、中型铣削加工。
- Suitable for light and medium milling.



型号 Model	库存 Stock	尺寸 (mm) Dimensions					齿数 No. of teeth	刀片 Insert	压紧螺钉 Forcing Screw	螺钉 Screw	扳手 Torx wrench
		dc	dm	a	B	L					
FM90-50CN09.XDZ24	○	50	24	9	10	50	5	CNCQ090508NF	MS10035	CO40A11S	Wt15
FM90-63CN09.XDZ24	○	63	24	9	10	50	6	CNCQ090508NF	MS10035	CO40A11S	WT15
FM90-80CN09.XDZ30	○	80	30	9	12	55	8	CNCQ090508NF	MS12045	CO40A11S	WT15
FM90-100CN09.XDZ38	○	100	38	9	14	63	10	CNCQ090508NF	SXDZ38	CO40A11S	WT15
FM90-125CN09.XDZ48	○	125	48	9	16	63	12	CNCQ090508NF	SXDZ48	CO40A11S	WT15
FM90-80CN12.XDZ30	○	80	30	12	12	55	7	CNCQ120508NF	MS12045	C050A12S	WT20
FM90-100CN12.XDZ38	○	100	38	12	14	63	9	CNCQ120508NF	SXDZ38	C050A12S	WT20
FM90-125CN12.XDZ48	○	125	48	12	16	63	11	CNCQ120508NF	SXDZ48	C050A12S	WT20
FM90-160CN12.XDZ48	○	160	48	12	16	63	14	CNCQ120508NF	SXDZ48	C050A12S	WT20

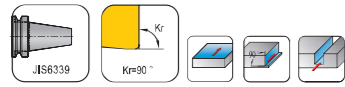
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

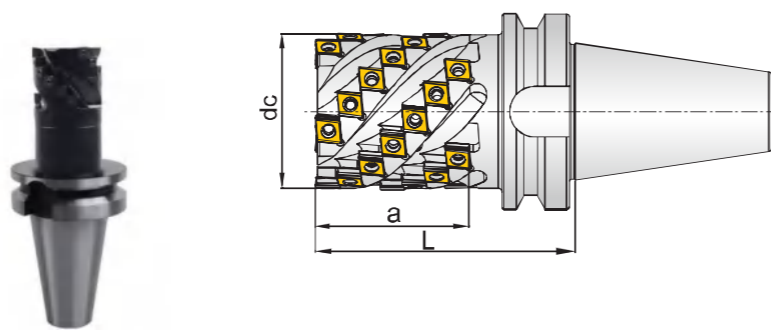
推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	80-180	0.1-0.25	2.0-4.0
	180-280	KP1230	80-180	0.1-0.25	2.0-4.0
	280-350	KP1230	80-180	0.1-0.25	2.0-4.0
M 不锈钢 Stainless Steel	<270	KP1230	80-180	0.1-0.25	2.0-4.0
K 铸铁 Cast iron	180-250	KP3220	80-180		2.0-4.0
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

可转位螺旋刃铣刀 Indexable helical edge milling cutter



- 适用于粗, 半精加工。
- Suitable for rough and semi-finish machining.
- 全功效加工, 高效率加工利器。
- Full effect processing, high efficiency processing sharp tools.

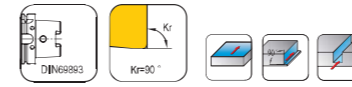


型号 Model	库存 Stock	尺寸 (mm) Dimensions			齿数 No. of teeth	刃数 No. of blade	刀片 Insert	螺钉 Screw	扳手 Torx wrench	
		dc	a	L						
HEM90-50CN09L.51/100.3-BT40	○	50	51	100	40	18	3	CNCQ090508F	CO40A11S	WT15
HEM90-63CN09L.58/115.4-BT40	○	63	58	100	40	28	4	CNCQ090508F	CO40A11S	WT15
HEM90-50CN09L.51/125.3-BT50	○	50	51	125	50	18	3	CNCQ090508F	CO40A11S	WT15
HEM90-63CN09L.58/140.4-BT50	○	50	58	140	50	28	4	CNCQ090508F	CO40A11S	WT15
HEM90-80CN09L.80/150.5-BT50	○	80	80	150	50	35	5	CNCQ120508F	C050A12S	WT20

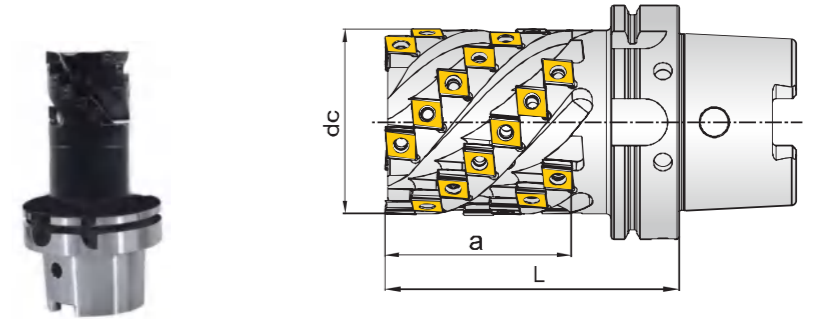
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

可转位螺旋刃铣刀 Indexable helical edge milling cutter



- 适用于粗, 半精加工。
- Suitable for rough and semi-finish machining.
- 全功效加工, 高效率加工利器。
- Full effect processing, high efficiency processing sharp tools.

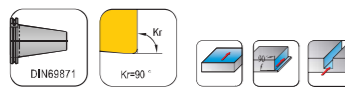


型号 Model	库存 Stock	尺寸 (mm) Dimensions			齿数 No. of teeth	刃数 No. of blade	刀片 Insert	螺钉 Screw	扳手 Torx wrench	
		dc	a	L						
HEM90-50CN09L.51/95.3-HSK63A	○	50	51	95	40	18	3	CNCQ090508F	CO40A11S	WT15
HEM90-63CN09L.58/110.4-HSK63A	○	63	58	110	40	28	4	CNCQ090508F	CO40A11S	WT15
HEM90-50CN09L.51/110.3-HSK100A	○	50	51	110	50	18	3	CNCQ090508F	CO40A11S	WT15
HEM90-63CN09L.58/125.4-HSK100A	○	50	58	125	50	28	4	CNCQ090508F	CO40A11S	WT15
HEM90-80CN09L.80/135.5-HSK100A	○	80	80	135	50	35	5	CNCQ120508F	C050A12S	WT20

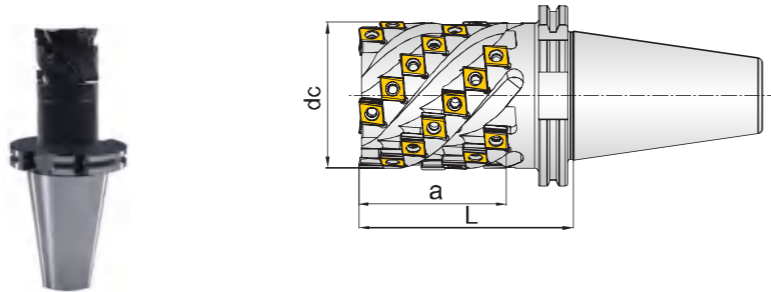
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

可转位螺旋刃铣刀 Indexable helical edge milling cutter



- 适用于粗, 半精加工。
- Suitable for rough and semi-finish machining.
- 全功效加工, 高效率加工利器。
- Full effect processing, high efficiency processing sharp tools.



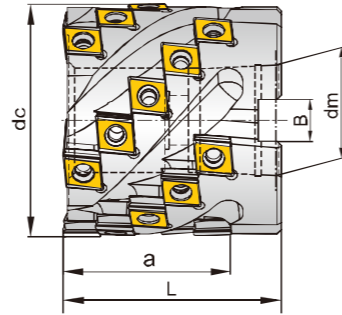
型号 Model	库存 Stock	尺寸 (mm) Dimensions			齿数 No. of teeth	刃数 No. of blade	刀片 Insert	螺钉 Screw	扳手 Torx wrench	
		dc	a	L						
HEM90-50CN09L.51/95.3-JT40	○	50	51	95	40	18	3	CNCQ090508F	CO40A11S	WT15
HEM90-63CN09L.58/110.4-JT40	○	63	58	110	40	28	4	CNCQ090508F	CO40A11S	WT15
HEM90-50CN09L.51/110.3-JT50	○	50	51	110	50	18	3	CNCQ090508F	CO40A11S	WT15
HEM90-63CN09L.58/125.4-JT50	○	50	58	125	50	28	4	CNCQ090508F	CO40A11S	WT15
HEM90-80CN09L.80/135.5-JT50	○	80	80	135	50	35	5	CNCQ120508F	C050A12S	WT20

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

可转位螺旋刃铣刀

Indexable helical edge milling cutter



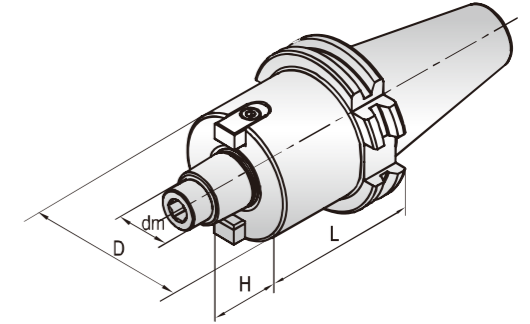
型号 Model	库存 Stock	尺寸 (mm) Dimensions					齿数 No. of teeth	刃数 No. of blade	刀片 Insert	螺钉 Screw	扳手 Torx wrench
		dc	dm	a	B	L					
HEM90-50CN09L.42/60.3XDZ24	○	50	24	42	10	60	15	3	CNCQ090508F	CO40A11S	WT15
HEM90-63CN09L.51/70.4XDZ30	○	63	30	51	12	70	24	4	CNCQ090508F	CO40A11S	WT15
HEM90-80CN12L.57/75.5XDZ38	○	80	38	57	14	75	25	5	CNCQ120508F	C050A12S	WT20
HEM90-100CN12L.69/90.6XDZ48	○	100	48	69	16	90	36	6	CNCQ120508F	C050A12S	WT20

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

铣镗专用刀柄

Special tool holder for milling and boring



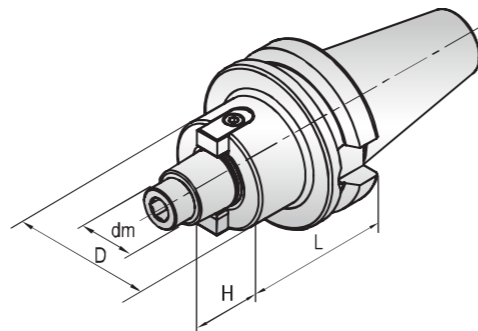
型号 Model	库存 Stock	尺寸 (mm) Dimensions				键 Key	螺钉 Screw
		dc	D	L	H		
JT40-XDZ24-60	○	24	48	60	17	40	JC10021-h9 MS04010
JT40-XDZ30-75	○	30	61	75	22	40	JC12023-h9 MS05016
JT50-XDZ24-60	○	24	48	60	17	50	JC10021-h9 MS04010
JT50-XDZ30-60	○	30	61	60	22	50	JC12023-h9 MS05016
JT50-XDZ38-60	○	38	78	60	26	50	JC14018-h9 MS06020
JT50-XDZ48-75	○	48	98	75	25	50	KXM40-h9 MS08020

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

铣镗专用刀柄

Special tool holder for milling and boring



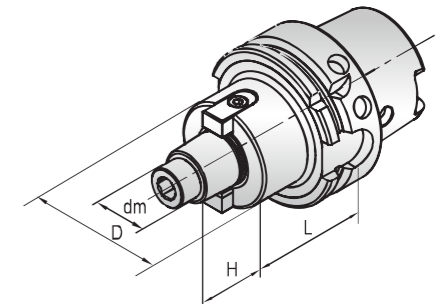
型号 Model	库存 Stock	尺寸 (mm) Dimensions				键 Key	螺钉 Screw
		dc	D	L	H		
BT40-XDZ24-60	○	24	48	60	17	40	JC10021-h9 MS04010
BT40-XDZ30-60	○	30	61	60	22	40	JC12023-h9 MS05016
BT50-XDZ24-60	○	24	48	60	17	50	JC10021-h9 MS04010
BT50-XDZ30-60	○	30	61	60	22	50	JC12023-h9 MS05016
BT50-XDZ38-60	○	38	78	60	26	50	JC14018-h9 MS06020
BT50-XDZ48-60	○	48	98	60	25	50	KXM40-h9 MS08020

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

铣镗专用刀柄

Special tool holder for milling and boring



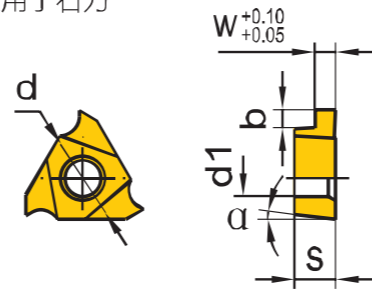
型号 Model	库存 Stock	尺寸 (mm) Dimensions				键 Key	螺钉 Screw
		dm	D1	L	H		
HSK63A-XDZ24-50	○	63	24	50	17	HSK-A63	JC10021-h9 MS04010
HSK63A-XDZ30-60	○	63	30	60	22	HSK-A63	JC12023-h9 MS05016
HSK100A-XDZ24-50	○	100	24	50	17	HSK-A100	JC10021-h9 MS04010
HSK100A-XDZ30-50	○	100	30	50	22	HSK-A100	JC12023-h9 MS05016
HSK100A-XDZ38-50	○	100	38	50	26	HSK-A100	JC14018-h9 MS06020
HSK100A-XDZ48-70	○	100	48	70	25	HSK-A100	KXM40-h9 MS08020

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

铣镗专用刀片 Special blade for milling and boring

适用于右刀



刀片外形 Insert shape	型号 Model	库存 Stock	尺寸与材质 Size and Grades											
			w	b	d	d1	s	α	KP1210	KP1230	KP2220	KT20	KW20	
	TN1635 R110	○	1.1	0.9	9.53	3.8	3.5	0°		●				
	TN1635 R130	○	1.3	1.3	9.53	3.8	3.5	0°		●				
	TN1635 R160	○	1.6	1.4	9.53	3.8	3.5	0°		●				
	TN1635 R185	○	1.85	1.7	9.53	3.8	3.5	0°		●				
	TN1635 R215	○	2.15	2	9.53	3.8	3.5	0°		●				
	TN1635 R265	○	2.65	2.2	9.53	3.8	3.5	0°		●				
钢 Steel									★	★	★			
不锈钢 Stainless Steel										★	☆			
铸铁 Cast Iron										★		★		
有色金属 Nonferrous Metal													★	
淬硬钢 Hardened Steel									★					

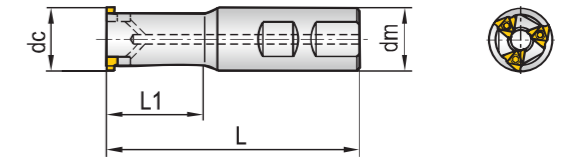
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

可转位槽铣刀 Indexable slot milling cutter



- 适用于内、外槽的铣削加工。
- Suitable for milling inside and outside groove.



型号 Model	库存 Stock	尺寸 (mm) Dimensions				齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	L1	L					
CMT-20TN16	○	20	20	30	90	1	TN1635 R	L60-M3.5x8.8A	T15	0.2
CMT-25TN16	○	25	25	40	105	1				0.3
CMT-32TN16	○	32	32	55	125	3				0.5
CMT-40TN16	○	40	32	70	135	3				0.8

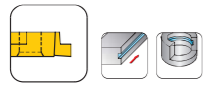
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

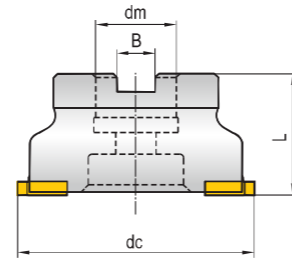
推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast Iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

可转位槽铣刀 Indexable slot milling cutter



- 适用于内、外槽的铣削加工。
- Suitable for milling inside and outside groove.



型号 Model	库存 Stock	尺寸 (mm) Dimensions				齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	B	L					
FMT-51TN16	○	51	22	10.4	40	4	TN1635 R..	L60-M3.5x8.8A	WT15	0.4
FMT-63TN16	○	63	22	10.4	40	6				0.6
FMT-80TN16	○	80	27	12.4	50	6				0.9

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

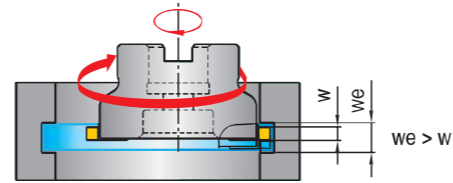
特殊形状的刀片 Special shaped blade

- 根据不同的槽，定制特殊的刀片。
- Customized special blades for different slots.

- 刀片宽度W可根据用户产品要求特殊订货，总厚度应小于刀片厚度S
- Blade width W can be specially ordered according to user's product requirements, the total thickness should be less than blade thickness S



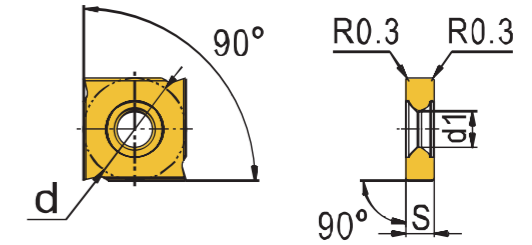
不允许轴向进给
Axial feed is not allowed



- 当槽的宽度 (we) 大于刀片宽度 (W)
时请两刀或多次加工。

- When the slot width (WE) is greater than the blade width (W)
When please two knife or many processing.

三面刃铣刀刀片 Three side milling cutter blade



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades							
		d	s	d1	KP1110	KP1230	KP2220	KT20	KW20
	SNCQ123503N	12.7	3.5	4.5	●	●			
	SNCQ120403N	12.7	4	4.5		●			
	SNCQ124503N	12.7	4.5	4.5		●			
	SNCQ120503N	12.7	5	4.5		●			
钢 Steel					★	★		★	
不锈钢 Stainless Steel						★	★	★	
铸铁 Cast Iron						★		☆	
有色金属 Nonferrous Metal									★
耐热合金 Heat Resistant Alloy							☆	☆	
淬硬钢 Hardened Steel							★		

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

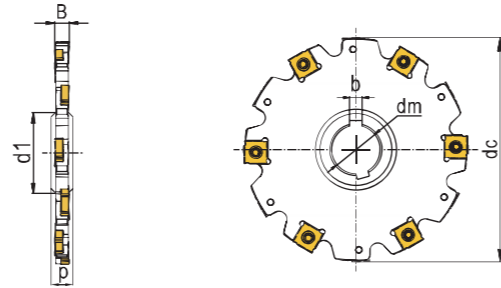
推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

三面刃铣刀 Three side milling cutter



- 适用于内、外槽的铣削加工。
- Suitable for milling inside and outside groove.

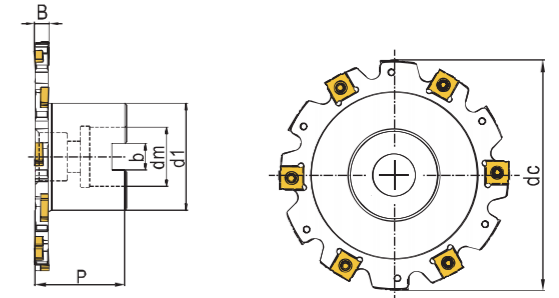


型号 Model	库存 Stock	尺寸 (mm) Dimensions						齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
		dc	d1	dm	P	B	b				
S3M-80P12B6SN1235.XS22	○	80	38	22	12	6	6	4x2		ST4073-91F	WT15
S3M-100P12B6SN1235.XS27	○	100	45	27	12	6	7	5x2		ST4073-91F	WT15
S3M-125P12B6SN1235.XS40	○	125	55	40	12	6	10	6x2	SNCQ123503N	ST4073-91F	WT15
S3M-160P12B6SN1235.XS40	○	160	55	40	12	6	10	8x2		ST4073-91F	WT15
S3M-200P12B6SN1235.XS50	○	200	69	50	12	6	12	9x2		ST4073-91F	WT15
S3M-250P12B6SN1235.XS50	○	250	69	50	12	6	12	12x2		ST4073-91F	WT15
S3M-80P12B7SN1204.XS22	○	80	38	22	12	7	6	4x2		ST409-91F	WT15
S3M-100P12B7SN1204.XS27	○	100	45	27	12	7	7	5x2		ST409-91F	WT15
S3M-125P12B7SN1204.XS40	○	125	55	40	12	7	10	6x2	SNCQ120403N	ST409-91F	WT15
S3M-160P12B7SN1204.XS40	○	160	55	40	12	7	10	8x2		ST409-91F	WT15
S3M-200P12B7SN1204.XS50	○	200	69	50	12	7	12	9x2		ST409-91F	WT15
S3M-250P12B7SN1204.XS50	○	250	69	50	12	7	12	12x2		ST409-91F	WT15
S3M-80P12B8SN1245.XS22	○	80	38	22	12	8	6	4x2		ST409-91F	WT15
S3M-100P12B8SN1245.XS27	○	100	45	27	12	8	7	5x2		ST409-91F	WT15
S3M-125P12B8SN1245.XS40	○	125	55	40	12	8	10	6x2	SNCQ124503N	ST409-91F	WT15
S3M-160P12B8SN1245.XS40	○	160	55	40	12	8	10	8x2		ST409-91F	WT15
S3M-200P12B8SN1245.XS50	○	200	69	50	12	8	12	9x2		ST409-91F	WT15
S3M-250P12B8SN1245.XS50	○	250	69	50	12	8	12	12x2		ST409-91F	WT15
S3M-100P12B9SN1205.XS27	○	100	45	27	12	9	7	5x2		ST409-91F	WT15
S3M-125P12B9SN1205.XS40	○	125	55	40	12	9	10	6x2		ST409-91F	WT15
S3M-160P12B9SN1205.XS40	○	160	55	40	12	9	10	8x2	SNCQ120503N	ST409-91F	WT15
S3M-200P12B9SN1205.XS50	○	200	69	50	12	9	12	9x2		ST409-91F	WT15
S3M-250P12B9SN1205.XS50	○	250	69	50	12	9	12	12x2		ST409-91F	WT15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

三面刃铣刀 Three side milling cutter

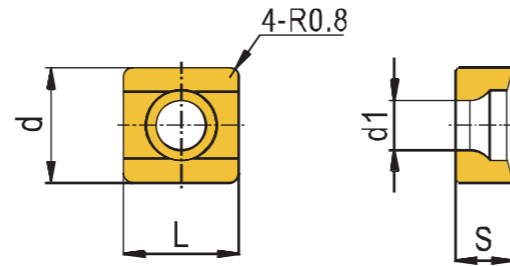


型号 Model	库存 Stock	尺寸 (mm) Dimensions						齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
		dc	d1	dm	P	B	b				
S3M-63P40B6SN1235.XMB22	○	63	42	22	50	6	10.4	3x2		ST4073-91F	Wt15
S3M-80P50B6SN1235.XMB22	○	80	42	22	50	6	10.4	4x2		ST4073-91F	WT15
S3M-100P50B6SN1235.XMB27	○	100	60	27	50	6	12.4	5x2	SNCQ123503N	ST4073-91F	WT15
S3M-125P50B6SN1235.XMB32	○	125	78	32	50	6	14.4	6x2		ST4073-91F	WT15
S3M-160P50B6SN1235.XMB40	○	160	89	40	50	6	16.4	8x2		ST4073-91F	WT15
S3M-63P40B7SN1204.XMB22	○	63	42	22	50	7	10.4	3x2		ST409-91F	WT15
S3M-80P50B7SN1204.XMB22	○	80	42	22	50	7	10.4	4x2		ST409-91F	WT15
S3M-100P50B7SN1204.XMB27	○	100	60	27	50	7	12.4	5x2	SNCQ120403N	ST409-91F	WT15
S3M-125P50B7SN1204.XMB32	○	125	78	32	50	7	14.4	6x2		ST409-91F	WT15
S3M-160P50B7SN1204.XMB40	○	160	89	40	50	7	16.4	8x2		ST409-91F	WT15
S3M-63P40B8SN1245.XMB22	○	63	42	22	50	8	10.4	3x2		ST409-91F	WT15
S3M-80P50B8SN1245.XMB22	○	80	42	22	50	8	10.4	4x2		ST409-91F	WT15
S3M-100P50B8SN1245.XMB27	○	100	60	27	50	8	12.4	5x2	SNCQ124503N	ST409-91F	WT15
S3M-125P50B8SN1245.XMB32	○	125	78	32	50	8	14.4	6x2		ST409-91F	WT15
S3M-160P50B8SN1245.XMB40	○	160	89	40	50	8	16.4	8x2		ST409-91F	WT15
S3M-100P50B9SN1205.XMB27	○	100	60	27	50	8	12.4	5x2		ST409-91F	WT15
S3M-125P50B9SN1205.XMB32	○	125	78	40	50	8	14.4	6x2	SNCQ120503N	ST409-91F	WT15
S3M-160P50B9SN1205.XMB40	○	160	89	40	50	8	16.4	8x2		ST409-91F	WT15

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

三面刃铣刀刀片 Three side milling cutter blade



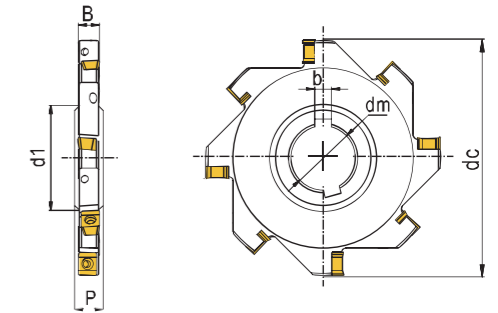
刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades									
		L	d	s	d1	KP1110	KP1230	KP2220	KP3220	KT20	KW20
	LNCT070408N	7.94	9.525	4.76	4.7	●	●				
	LNCT090408N	9.525	9.525	4.76	5.8	●	●				
	LNCT120508N	12.7	11.5	5.56	6						
钢 Steel						★	★			★	
不锈钢 Stainless Steel							★	★		★	
铸铁 Cast Iron							★	★	★	☆	
有色金属 Nonferrous Metal											★
耐热合金 Heat Resistant Alloy									☆	☆	
淬硬钢 Hardened Steel						★					

★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock

○ 订单生产 order production

三面刃铣刀 Three side milling cutter



型号 Model	库存 Stock	尺寸 (mm) Dimensions						齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
		dc	d1	dm	P	B	b				
S3M-100P16B10L NO7.XS32	○	100	46	32	16	10	8	LNCT070408N	C030A07S	WT9	
S3M-125P16B10L NO7.XS40	○	125	55	40	16	10	10		C030A08S	WT9	
S3M-160P 16B10LN07.XS40	○	160	55	40	16	10	10		C030A09S	WT9	
S3M-200P16B10LN07.XS50	○	200	69	50	16	10	12	7x2	C030A10S	WT9	
S3M-100P18B12LN09.XS32	○	100	46	32	18	12	8	4x2	C035A08S	WT15	
S3M-125P 18B12L NO9.XS40	○	125	55	40	18	12	10	5x2	C035A08S	WT15	
S3M-160P18B12LN09.XS40	○	160	55	40	18	12	10	6x2	LNCT090408N	C035A08S	WT15
S3M-200P18B12L NO9.XS50	○	200	69	50	18	12	12	7x2	C035A08S	WT15	
S3M-250P 18B12LN09.XS50	○	250	69	50	18	12	12	8x2	C035A08S	WT15	
S3M-125P24B16LN12.XS40	○	125	55	40	24	16	10	5x2	C035A09S	WT15	
S3M-160P24B16LN12.XS40	○	160	55	40	24	16	10	6x2	LNCT120508N	C035A09S	WT15
S3M-200P24B16LN12.XS50	○	200	69	50	24	16	12	7x2	C035A09S	WT15	
S3M-250P24B16LN12.XS50	○	250	69	50	24	12	12	8x2	C035A09S	WT15	

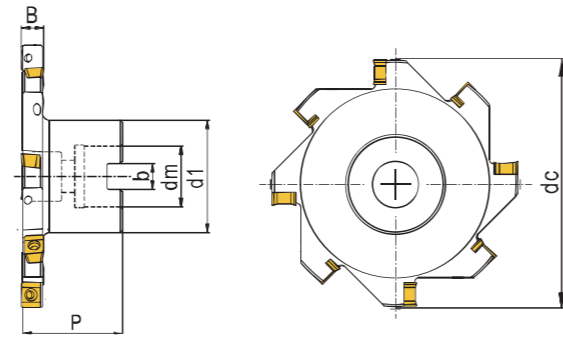
* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

三面刃铣刀 Three side milling cutter

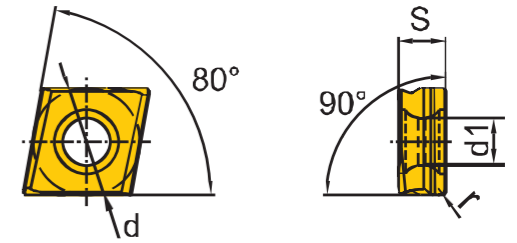


型号 Model	库存 Stock	尺寸 (mm) Dimensions							齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
		dc	d1	dm	P	B	b					
S3M-80P50B10LNO7.XMB22	○	80	42	22	50	10	10.4	4x2	LNCT070408N	C030A07S	WT9	
S3M-100P50B10LNO7.XMB27	○	100	60	27	50	10	12.4	5x2		C030A07S	WT9	
S3M-125P50B10LNO7.XMB32	○	125	78	32	50	10	14.4	6x2	LNCT090408N	C030A07S	WT9	
S3M-160P50B10LNO7.XMB40	○	160	89	40	50	10	16.4	7x2		CO30A07S	WT9	
S3M-100P50B12LN09.XMB27	○	100	60	27	50	12	12.4	5x2	LNCT090408N	C035A08S	WT15	
S3M-125P50B12LN09.XMB32	○	125	78	32	50	12	14.4	6x2		C035A08S	WT15	
S3M-160P50B12LN09.XMB40	○	160	89	40	50	12	16.4	7x2	LNCT120508N	C035A08S	WT15	
S3M-200P50B12LN09.XMB40	○	200	89	40	50	12	16.4	8x2		C035A08S	WT15	
S3M-125P50B16LN12.XMB32	○	125	78	32	50	16	14.4	5x2	LNCT120508N	C040A09S	WT15	
S3M-160P50B16LN12.XMB40	○	160	89	40	50	16	16.4	6x2		C040A09S	WT15	
S3M-200P50B16LN12.XMB40	○	200	89	40	50	16	16.4	7x2	LNCT120508N	CO40A09S	WT15	
S3M-250P50B16LN12.XMB60	○	250	129	60	50	16	25.7	8x2		C040A09S	WT15	

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

三面刃铣刀刀片 Three side milling cutter blade



刀片外形 Insert shape	型号 Model	尺寸与材质 Size and Grades				
		r	d	s	d1	KP1110 KP1230 KP2220 KT20 KW20
	CNCQ090504L/R	0.4	9.525	5.56	4.4	●
	CNCQ090508L/R	0.8	9.525	5.56	4.4	●
	CNCQ120504L/R	0.4	12.7	5.56	5.5	●
	CNCQ120508L/R	0.8	12.7	5.56	5.5	●
	CNCQ150504L/R	0.4	15.875	5.56	5.5	●
钢 Steel						★
不锈钢 Stainless Steel						★
铸铁 Cast Iron						★
有色金属 Nonferrous Metal						☆
耐热合金 Heat Resistant Alloy						☆
淬硬钢 Hardened Steel						★

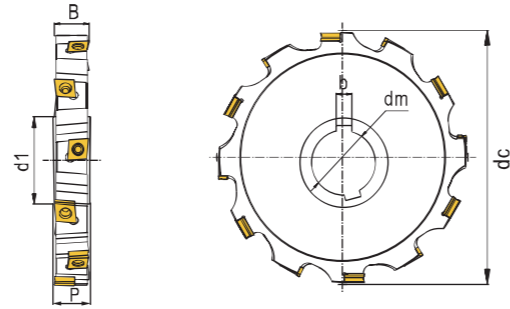
★ 首选 Preferred ☆ 可选 optional

● 标准库存 standard stock ○ 订单生产 order production

推荐切削条件表 Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

三面刃铣刀
Three side milling cutter

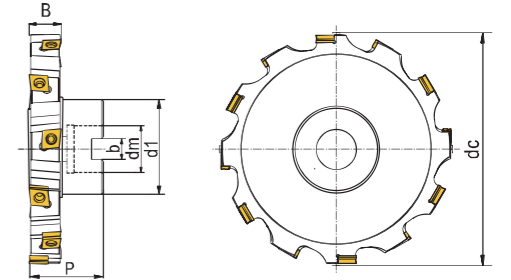


型号 Model	库存 Stock	尺寸 (mm) Dimensions						齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
		dc	d1	dm	P	B	b				
S3M-100P16B14CN09.XS32	○	100	46	32	16	14	8	4x2		C040A09S	WT15
S3M-125P16B14CN09.XS40	○	125	55	40	16	14	10	4x2	CNCQ0905..L	C040A09S	WT15
S3M-160P16B14CN09.XS40	○	160	55	40	16	14	10	6x2	CNCQ0905..R	C040A09S	WT15
S3M-200P16B14CN09.XS50	○	200	69	50	16	14	12	7x2		C040A09S	WT15
S3M-250P16B14CN09.XS50	○	250	69	50	16	14	12	9x2		C040A09S	WT15
S3M-100P16B14CN09.XS32	○	100	46	32	22	20	8	4x2		C050A12S	WT20
S3M-125P22B20CN12.XS40	○	125	55	40	22	20	10	4x2	CNCQ1205..L	C050A12S	WT20
S3M-160P22B20CN12.XS40	○	160	55	40	22	20	10	6x2	CNCQ1205..R	C050A12S	WT20
S3M-200P22B20CN12.XS50	○	200	69	50	22	20	12	7x2		C050A12S	WT20
S3M-250P22B20CN12.XS50	○	250	69	50	21	20	12	9x2		C050A12S	WT20
S3M-125P27B24CN15.XS40	○	125	55	40	27	24	10	4x2		C050A12S	WT20
S3M-160P27B24CN15.XS40	○	160	55	40	27	24	10	6x2	CNCQ1505..L	C050A12S	WT20
S3M-200P27B24CN15.XS50	○	200	69	50	27	24	12	7x2	CNCQ1505..R	C050A12S	WT20
S3M-250P27B24CN15.XS50	○	250	69	50	27	24	12	9x2		C050A12S	WT20

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

三面刃铣刀
Three side milling cutter



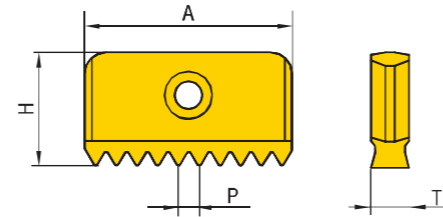
型号 Model	库存 Stock	尺寸 (mm) Dimensions						齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
		dc	d1	dm	P	B	b				
S3M-80P50B14CN09.XMB22	○	80	42	22	50	14	10.4	3x2		C040A09S	WT15
S3M-100P50B14CN09.XMB27	○	100	60	27	50	14	12.4	4x2	CNCQ0905..L	C040A09S	WT15
S3M-125P50B14CN09.XMB32	○	125	78	32	50	14	14.4	4x2	CNCQ0905..R	C040A09S	WT15
S3M-160P50B14CN09.XMB40	○	160	89	40	50	14	16.4	6x2		C040A09S	WT15
S3M-100P50B20CN12.XMB27	○	100	60	27	50	20	12.4	4x2		C050A12S	WT20
S3M-125P50B20CN12.XMB32	○	125	78	32	50	20	14.4	4x2	CNCQ1205..L	C050A12S	WT20
S3M-160P50B20CN12.XMB40	○	160	89	40	50	20	16.4	6x2	CNCQ1205..R	C050A12S	WT20
S3M-200P50B20CN12.XMB40	○	200	89	40	50	20	16.4	8x2		C050A12S	WT20
S3M-125P50B24CN15.XMB32	○	125	78	32	50	24	14.4	4x2		C050A12S	WT20
S3M-160P50B24CN15.XMB40	○	160	89	40	50	24	16.4	6x2	CNCQ1505..L	C050A12S	WT20
S3M-200P50B24CN15.XMB40	○	200	89	40	50	24	16.4	7x2	CNCQ1505..R	C050A12S	WT20
S3M-250P50B24CN15.XMB60	○	250	129	60	50	24	25.7	9x2		C050A12S	WT20

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

ISO标准螺纹铣刀片

ISO standard thread milling blade



螺距 Pitch(mm)	库存 Stock	刀片尺寸 (mm) Insert size				刀片材质及适用加工材料 Grade and application		
		14mm(1)	21mm	30mm	40mm	KTX	KVX	KW20
0.50	外EXT	○				●	●	●
	内INT	○	1410.50 ISO			●	●	●
0.75	外EXT	○	14E0.75 ISO			●	●	●
	内INT	○	1410.75 ISO			●	●	●
1.00	外EXT	○	14E1.00 ISO	21E1.00 ISO		●	●	●
	内INT	○	141.00 ISO	21.00 ISO		●	●	●
1.25	外EXT	○	14E1.25 ISO			●	●	●
	内INT	○	141.25 ISO			●	●	●
1.50	外EXT	○	14E1.50 ISO	21E1.50 ISO	30E1.50 ISO	40E1.50 ISO	●	●
	内INT	○	141.50 ISO	21.50 ISO	301.50 ISO	4011.50 ISO	●	●
1.75	外EXT	○	14E1.75 ISO			●	●	●
	内INT	○	141.75 ISO	21.75 ISO		●	●	●
2.00	外EXT	○	14E2.00 ISO	21E2.00 ISO	30E2.00 ISO	40E2.00 ISO	●	●
	内INT	○	1412.00 ISO	212.00 ISO	3012.00 ISO	4012.00 ISO	●	●
2.50	外EXT	○	14E2.50 ISO	21E2.50 ISO		●	●	●
	内INT	○	1412.50 ISO	212.50 ISO		●	●	●
3.00	外EXT	○		21E3.00 ISO	30E3.00 ISO	40E3.00 ISO	●	●
	内INT	○		213.00 ISO	3013.00 ISO	4013.00 ISO	●	●
3.50	外EXT	○			30E3.50 ISO		●	●
	内INT	○		213.50 ISO	3013.50 ISO	4013.50 ISO	●	●
4.00	外EXT	○			30E4.00 ISO	40E4.00 ISO	●	●
	内INT	○			3014.00 ISO	4014.00 ISO	●	●
4.50	外EXT	○					●	●
	内INT	○			3014.50 ISO	4014.50 ISO	●	●
5.00	外EXT	○				40E5.00 ISO	●	●
	内INT	○				4015.00 ISO	●	●
5.50	外EXT	○					●	●
	内INT	○				4015.50 ISO	●	●
6.00	外EXT	○				40E6.00 ISO	●	●
	内INT	○				4016.00 ISO	●	●
H	○	7.5	12	16	20	钢 Steel	不锈钢 Stainless Steel	铸铁 Cast iron
T	○	3.1	4.7	5.5	6.3			

● 标准库存 standard stock ○ 订单生产 order production

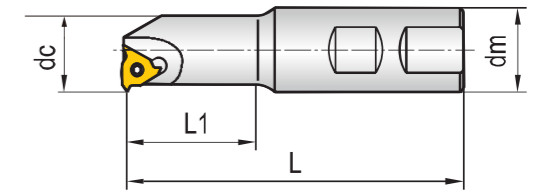
推荐切削条件表

Recommended Cutting Conditions

工件材料 Workpiece Materials	布氏硬度 Brinell hardness HB	材质牌号 Grade	切削速度推荐值 Recommended Cutting Speed		
			Vc(m/min)	f(mm/z)	ap(mm)
P 钢 Steel	<180	KP1230	120-180-250	0.1-0.3	
	180-280	KP1230	100-160-220	0.1-0.3	
	280-350	KP1230	80-140-180	0.1-0.3	
M 不锈钢 Stainless Steel	<270	KP1230	80-160-250	0.1-0.25	
K 铸铁 Cast iron	180-250	KP1230			
N 铝合金 Aluminium Alloys					
H 高硬钢 Hardness	HRC50-60				

可转位螺纹铣刀

Indexable thread milling cutter



型号 Model	库存 Stock	尺寸 (mm) Dimensions				刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	L1	L				
SMT-25-16	○	25	25	75	140	16....	C035A08S	T15	0.7
SMT-40-16	○	40	32	85	150	16....	C035A08S	T15	1.1

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

刀片使用: 加工外螺纹: 16EL....

Blade use: processing external thread: 16EL....

加工内螺纹: 16NR....

Machining internal thread: 16NR....

外螺纹铣削方法

Exterior thread milling method

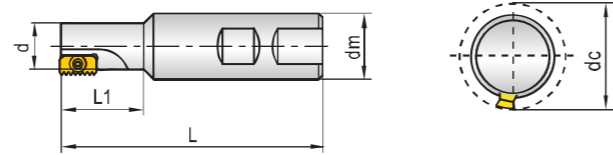
右旋螺纹-R Right hand thread -R 顺时针进给, 顺铣 Feed clockwise and mill down	左旋螺纹-L L-L 顺时针进给, 顺铣 Feed clockwise and mill down	右旋螺纹-R Right hand thread -R 顺时针进给, 顺铣 Feed clockwise and mill down	左旋螺纹-L L-L 顺时针进给, 顺铣 Feed clockwise and mill down
刀片: 16EL.... The blade	刀片: 16EL.... The blade	刀片: 16EL.... The blade	刀片: 16EL.... The blade

内螺纹铣削方法

Internal thread milling method

右旋螺纹-R Right hand thread -R 顺时针进给, 顺铣 Feed clockwise and mill down	左旋螺纹-L L-L 顺时针进给, 顺铣 Feed clockwise and mill down	右旋螺纹-R Right hand thread -R 顺时针进给, 顺铣 Feed clockwise and mill down	左旋螺纹-L L-L 顺时针进给, 顺铣 Feed clockwise and mill down
刀片: 16ER.... The blade	刀片: 16ER.... The blade	刀片: 16ER.... The blade	刀片: 16ER.... The blade

可转位螺纹铣刀 Indexable thread milling cutter

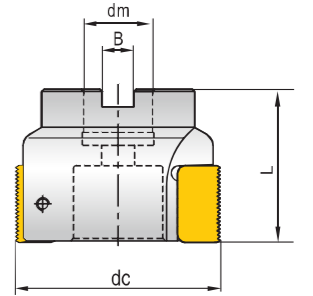


型号 Model	库存 Stock	尺寸 (mm) Dimensions					齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	d	L1	L					
SMT-14.5-14	○	14.5	20	11	25	85	1	14...	C030A07S	T9	0.2
SMT-17-14	○	17	20	14	30	85	1	14...	C030A07S	T9	0.3
SMT-20-14	○	20	20	17	35	90	1	14...	C030A07S	T9	0.3
SMT-25-14	○	25	25	22	40	100	1	14...	C030A07S	T9	0.4
SMT-18-21	○	18	20	14	30	85	1	21...	C040A09S	T15	0.3
SMT-21-21	○	21	20	17	40	95	1	21...	C040A09S	T15	0.3
SMT-25-21	○	25	25	21	50	115	1	21...	C040A09S	T15	0.4
SMT-29-30	○	29	25	24	50	115	1	30...	C050A12S	T20	0.6
SMT-48-40	○	48	40	40	80	160	1	40...	C050A12S	T20	2.3

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production

可转位螺纹铣刀 Indexable thread milling cutter



型号 Model	库存 Stock	尺寸 (mm) Dimensions				齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench	重量 Weight
		dc	dm	B	L					
SMF-50-14	○	50	22	10.4	40	5	14...	C030A07S	WT9	0.4
SMF-63-21	○	63	22	10.4	50	5	21...	C040A09S	WT15	0.6
SMF-80-21	○	80	27	12.4	50	6	21...	C040A09S	WT15	1.1
SMF-80-30	○	80	27	12.4	55	4	30...	C050A12S	WT20	1.1
SMF-100-30	○	100	32	14.4	60	4	30...	C050A12S	WT20	1.9
SMF-80-40	○	80	27	12.4	65	4	40...	C050A12S	WT20	1.1
SMF-100-40	○	100	32	14.4	70	4	40...	C050A12S	WT20	1.9

* 刀片需单独订购。Blades to be ordered separately.

● 标准库存 Standard inventory ○ 订单生产 The order production



www.pcbn.com



合金铣刀

Alloy milling cutter

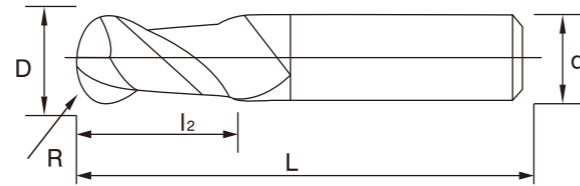
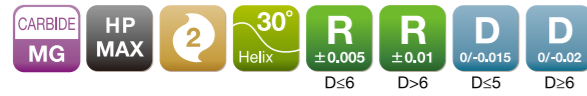
K1~K71



HP-MAX: 普通加工系列 Hp-max: General processing series	页01-06	AL-MAX: 铝合金加工系列 Al-max: Aluminum alloy processing series	页39-44
HPB230..... K		ALB230..... K	
HPR435..... K		ALE345..... K	
HPE435..... K		ALEL345..... K	
HPEL435..... K		ALE255..... K	
HPE235..... K		ALEL255..... K	
HPEL235..... K		ALRE327..... K	
HM-MAX: 通用加工系列 Hm-max: General processing series	页07-16	CO-MAX: 铜铝加工系列 Co-max: Copper and aluminum processing series	页45-50
HMB230..... K		COB230..... K	
HMR435..... K		COE345..... K	
HME435..... K		COEL345..... K	
HMEL435..... K		COE255..... K	
HME235..... K		COEL255..... K	
HMEL235..... K		CORE327..... K	
HME645..... K		DIA-MAX: 石墨加工系列 Dia-max: graphite processing series	页51-56
HMEL645..... K		DMB230..... K	
HMRE430..... K		DMR430..... K	
HMREL430..... K		DME430..... K	
HY-MAX: 高硬加工系列 Hy-max: High hard machining series	页17-20	DME230..... K	
二刃球头铣刀 HYB230..... K		螺纹铣刀系列 Thread milling cutter series	页57-56
四刃圆鼻铣刀 HYR435..... K		ISO标准型螺纹..... K	
四刃平底铣刀 HYE445..... K		ISO Metric Full Profile	
HR-MAX: 深沟微小径系列 Hr-max: Deep groove micro trail series	页22-29	UN-60° 美制统一标准螺纹..... K	
HRB230..... K		American UN Full Profile	
HRR430..... K		BSP(G)-55° 英制标准管螺纹..... K	
HRR230..... K		BSP(G)-55° British Standard Pipe Full Profile	
HRE430..... K		BSPT-55° 英制标准锥管螺纹..... K	
HRE230..... K		BSPT-55° British Standard Pipe Full Profile	
HS-MAX: 不锈钢加工系列 Hs-max: stainless steel processing series	页30-35	NPT-60° 美国标准锥管螺纹..... K	
HSB230..... K		NPTF 美制干密封锥管螺纹..... K	
HSR435..... K		NPTF National Pipe Threads	
HSEL435..... K		ISO标准型螺纹..... K	
HSE235..... K		ISO Metric Full Profile	
HSEL235..... K		60° 泛型螺纹..... K	
XS-MAX: 高温合金加工系列 Xs-max: high temperature alloy processing series	页36-38	60° full thread	
XSE445..... K		ISO标准型螺纹..... K	
XSR445..... K		ISO Metric Full Profile	
XSEL445..... K		UN-60° 美制统一标准螺纹..... K	
		American UN Full Profile	
		UN-60° 美制统一标准螺纹..... K	
		American UN Full Profile	
		锯片铣刀系列 Saw blade milling cutter series	页68-71
		A型齿整体硬质合金锯片铣刀..... K	
		A-tooth type Tungsten Carbide Circular Saws	
		S型齿整体硬质合金锯片铣刀..... K	
		S-type solid carbide saw cutter and milling cutter	
		整体硬质合金三面刃铣刀..... K	
		Solid carbide side milling cutter	
		整体硬质合金凸半圆锯片铣刀..... K	
		Solid carbide convex semicircle saw blade milling cutter	
		整体硬质合金凹半圆铣刀..... K	
		Solid carbide concave semicircle milling cutter	
		锯片刀杆柄..... K	
		Saw blade shank	

HPB230 二刃球头铣刀

HP-MAX Ball End Mill 2-Flute 30°



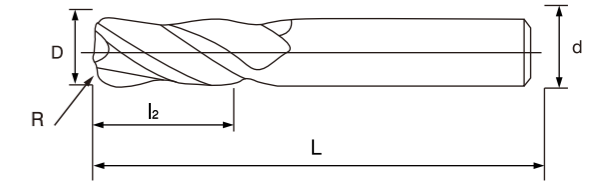
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HPB230-010020-050-S04	1.0	0.5	2	50	4	
HPB230-015030-050-S04	1.5	0.75	3	50	4	
HPB230-020040-050-S04	2.0	1	4	50	4	
HPB230-030060-050-S04	3.0	1.5	6	50	4	
HPB230-030060-050-S06	3.0	1.5	6	50	6	
HPB230-040080-050-S04	4.0	2	8	50	4	
HPB230-040080-050-S06	4.0	2	8	50	6	
HPB230-050100-050-S06	5.0	2.5	10	50	6	
HPB230-060120-050-S06	6.0	3	12	50	6	
HPB230-060120-075-S06	6.0	3	12	75	6	
HPB230-060120-100-S06	6.0	3	12	100	6	
HPB230-080160-060-S08	8.0	4	16	60	8	
HPB230-080160-075-S08	8.0	4	16	75	8	
HPB230-080160-100-S08	8.0	4	16	100	8	
HPB230-100200-075-S10	10.0	5	20	75	10	
HPB230-100200-100-S10	10.0	5	20	100	10	
HPB230-120240-075-S12	12.0	6	24	75	12	
HPB230-120240-100-S12	12.0	6	24	100	12	

HPR435 四刃圆鼻铣刀

HP-MAX Radius End Mill 4-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HPR435-010030R0.2-050-S04	1	R0.2	3	50	4	
HPR435-020060R0.2-050-S04	2	R0.2	6	50	4	
HPR435-030090R0.2-050-S04	3	R0.2	9	50	4	
HPR435-030090R0.5-050-S04	3	R0.5	9	50	4	
HPR435-040110R0.2-050-S04	4	R0.2	11	50	4	
HPR435-040110R0.5-050-S04	4	R0.5	11	50	4	
HPR435-050130R0.2-050-S06	5	R0.2	13	50	6	
HPR435-050130R0.5-050-S06	5	R0.5	13	50	6	
HPR435-050130R1.0-050-S06	5	R1.0	13	50	6	
HPR435-060160R0.2-050-S06	6	R0.2	16	50	6	
HPR435-060160R0.5-050-S06	6	R0.5	16	50	6	
HPR435-060160R1.0-050-S06	6	R1.0	16	50	6	
HPR435-060160R0.5-075-S06	6	R0.5	16	75	6	
HPR435-060160R1.0-075-S06	6	R1.0	16	75	6	
HPR435-060160R0.5-100-S06	6	R0.5	16	100	6	
HPR435-060160R1.0-100-S06	6	R1.0	16	100	6	
HPR435-080200R0.5-060-S08	8	R0.5	20	60	8	
HPR435-080200R1.0-060-S08	8	R1.0	20	60	8	
HPR435-080200R0.5-075-S08	8	R0.5	20	75	8	
HPR435-080200R1.0-075-S08	8	R1.0	20	75	8	
HPR435-080200R0.5-100-S08	8	R0.5	20	100	8	
HPR435-080200R1.0-100-S08	8	R1.0	20	100	8	
HPR435-100250R0.5-075-S10	10	R0.5	25	75	10	
HPR435-100250R1.0-075-S10	10	R1.0	25	75	10	
HPR435-100250R0.5-100-S10	10	R0.5	25	100	10	
HPR435-100250R1.0-100-S10	10	R1.0	25	100	10	
HPR435-120300R0.5-075-S12	12	R0.5	30	75	12	
HPR435-120300R1.0-075-S12	12	R1.0	30	75	12	
HPR435-120300R0.5-100-S12	12	R0.5	30	100	12	
HPR435-120300R1.0-100-S12	12	R1.0	30	100	12	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

HPE435 四刃平底铣刀

HP-MAX Flat End Mill 4-Flute 35°



HPEL435 四刃加长柄平底铣刀

HP-MAX Long Flute Flat End Mill 4-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HPE435-010030-050-S04	1.0		3	50	4	
HPE435-015040-050-S04	1.5		4	50	4	
HPE435-020060-050-S04	2		6	50	4	
HPE435-025070-050-S04	2.5		7	50	4	
HPE435-030090-050-S04	3		9	50	4	
HPE435-040120-050-S04	4		12	50	4	
HPE435-040120-050-S06	4		12	50	6	
HPE435-050130-050-S06	5		13	50	6	
HPE435-060150-050-S06	6		15	50	6	
HPE435-080200-060-S08	8		20	60	8	
HPE435-100250-075-S10	10		25	75	10	
HPE435-120300-075-S12	12		30	75	12	
HPE435-140400-100-S14	14		40	100	14	
HPE435-160450-100-S16	16		45	100	16	
HPE435-180500-100-S18	18		50	100	18	
HPE435-200500-100-S20	20		50	100	20	

产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HPEL435-030090-075-S04	3		9	75	4	
HPEL435-030090-100-S04	3		9	100	4	
HPEL435-040120-075-S04	4		12	75	4	
HPEL435-040120-100-S04	4		12	100	4	
HPEL435-050160-075-S06	5		16	75	6	
HPEL435-050160-100-S06	5		16	100	6	
HPEL435-060180-075-S06	6		18	75	6	
HPEL435-060180-100-S06	6		18	100	6	
HPEL435-080250-075-S08	8		25	75	8	
HPEL435-080250-100-S08	8		25	100	8	
HPEL435-100300-100-S10	10		30	100	10	
HPEL435-120360-100-S12	12		36	100	12	

加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

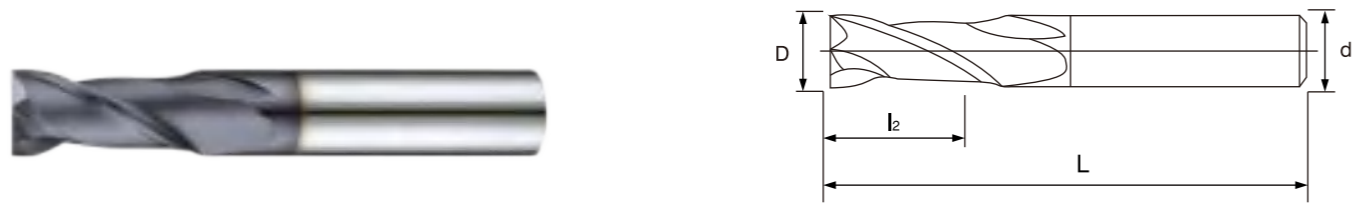
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

HPE235 二刃平底铣刀

HP-MAX Flat End Mill 2-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HPE235-010030-050-S04	1.0		3	50	4	
HPE235-015040-050-S04	1.5		4	50	4	
HPE235-020060-050-S04	2		6	50	4	
HPE235-025070-050-S04	2.5		7	50	4	
HPE235-030090-050-S04	3		9	50	4	
HPE235-040120-050-S04	4		12	50	4	
HPE235-040120-050-S06	4		12	50	6	
HPE235-050130-050-S06	5		13	50	6	
HPE235-060150-050-S06	6		15	50	6	
HPE235-080200-060-S08	8		20	60	8	
HPE235-100250-075-S10	10		25	75	10	
HPE235-120300-075-S12	12		30	75	12	
HPE235-140400-100-S14	14		40	100	14	
HPE235-160450-100-S16	16		45	100	16	
HPE235-180500-100-S18	18		50	100	18	
HPE235-200500-100-S20	20		50	100	20	

HPEL235 二刃加长柄平底铣刀

HP-MAX Long Flute Flat End Mill 2-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HPEL235-030090-075-S04	3		9	75	4	
HPEL235-030090-100-S04	3		9	100	4	
HPEL235-040120-075-S04	4		12	75	4	
HPEL235-040120-100-S04	4		12	100	4	
HPEL235-050160-075-S06	5		16	75	6	
HPEL235-050160-100-S06	5		16	100	6	
HPEL235-060180-075-S06	6		18	75	6	
HPEL235-060180-100-S06	6		18	100	6	
HPEL235-080250-075-S08	8		25	75	8	
HPEL235-080250-100-S08	8		25	100	8	
HPEL235-100300-100-S10	10		30	100	10	
HPEL235-120360-100-S12	12		36	100	12	

加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

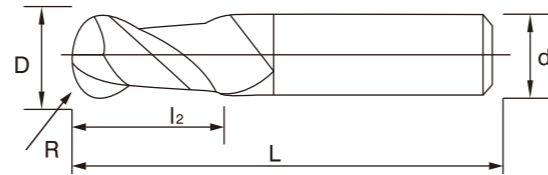
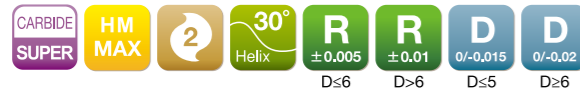
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

HMB230 二刃球头铣刀

HM-MAX Ball End Mill 2-Flute 30°



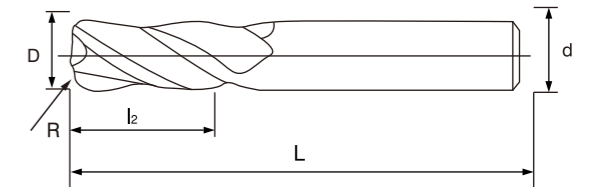
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HMB230-020040-050-S04	2	0.5	4	50	4	
HMB230-030060-050-S04	3	0.75	6	50	4	
HMB230-040080-050-S04	4	1.0	8	50	4	
HMB230-040080-050-S06	4	1.0	8	50	6	
HMB230-050100-050-S06	5	1.25	10	50	6	
HMB230-060120-050-S06	6	1.5	12	50	6	
HMB230-060120-075-S06	6	1.5	12	75	6	
HMB230-060120-100-S06	6	1.5	12	100	6	
HMB230-080160-060-S08	8	2.0	16	60	8	
HMB230-080160-075-S08	8	2.0	16	75	8	
HMB230-080160-100-S08	8	2.0	16	100	8	
HMB230-100200-075-S10	10	2.5	20	75	10	
HMB230-100200-075-S10	10	2.5	20	100	10	
HMB230-120240-075-S12	12	3.0	24	75	12	
HMB230-120240-100-S12	12	3.0	24	100	12	

HMR435 四刃圆鼻铣刀

HM-MAX Radius End Mill 4-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HMR435-010R0.2-050-S04	1	0.2	3	50	4	
HMR435-020R0.2-050-S04	2	0.2	6	50	4	
HMR435-030R0.2-050-S04	3	0.2	8	50	4	
HMR435-030R0.5-050-S04	3	0.5	8	50	4	
HMR435-040R0.2-050-S04	4	0.2	11	50	4	
HMR435-040R0.5-050-S04	4	0.5	11	50	4	
HMR435-060R0.2-050-S06	6	0.2	16	50	6	
HMR435-060R0.5-050-S06	6	0.5	16	50	6	
HMR435-060R1.0-050-S06	6	1	16	50	6	
HMR435-060R0.5-075-S06	6	0.5	16	75	6	
HMR435-060R1.0-075-S06	6	1	16	75	6	
HMR435-060R0.5-100-S06	6	0.5	16	100	6	
HMR435-060R1.0-100-S06	6	1	16	100	6	
HMR435-080R0.5-060-S08	8	0.5	20	60	8	
HMR435-080R1.0-060-S08	8	1	20	60	8	
HMR435-080R0.5-075-S08	8	0.5	20	75	8	
HMR435-080R1.0-075-S08	8	1	20	75	8	
HMR435-080R0.5-100-S08	8	0.5	20	100	8	
HMR435-080R1.0-100-S08	8	1	20	100	8	
HMR435-100R0.5-075-S10	10	0.5	25	75	10	
HMR435-100R0.5-075-S10	10	1	25	75	10	
HMR435-100R0.5-100-S10	10	0.5	25	100	10	
HMR435-100R1.0-100-S10	10	1	25	100	10	
HMR435-120R0.5-075-S12	12	0.5	30	75	12	
HMR435-120R1.0-075-S12	12	1	30	75	12	
HMR435-120R0.5-100-S12	12	0.5	30	100	12	
HMR435-120R1.0-100-S12	12	1	30	100	12	

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

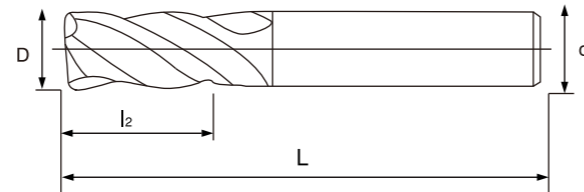
◉最适合Fit best ◊适合Fit

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◊适合Fit

HME435 四刃平底铣刀

HM-MAX Flat End Mill 4-Flute 35°



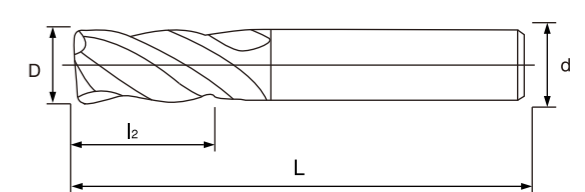
产品规格 | SPECIFICATI OS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HME435-010030-050-S04	1.0		3	50	4	
HME435-015040-050-S04	1.5		4	50	4	
HME435-020060-050-S04	2		6	50	4	
HME435-025070-050-S04	2.5		7	50	4	
HME435-030090-050-S03	3		9	50	3	
HME435-030090-050-S04	3		9	50	4	
HME435-040110-050-S04	4		11	50	4	
HME435-050130-050-S06	5		13	50	6	
HME435-060160-050-S06	6		16	50	6	
HME435-080200-060-S08	8		20	60	8	
HME435-100250-075-S10	10		25	75	10	
HME435-120300-075-S12	12		30	75	12	
HME435-140350-100-S14	14		35	100	14	
HME435-160400-100-S16	16		40	100	16	
HME435-180450-100-S18	18		45	100	18	
HME435-200500-100-S20	20		50	100	20	

HMEL435 四刃加长柄平底铣刀

HM-MAX Long Flute Flat End Mill 4-Flute 35°



产品规格 | SPECIFICATI OS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HMEL435-030090-075-S04	3		9	75	4	
HMEL435-040120-075-S04	4		12	75	4	
HMEL435-030120-100-S04	3		12	100	4	
HMEL435-040160-100-S04	4		16	100	4	
HMEL435-050150-075-S06	5		15	75	6	
HMEL435-060180-075-S06	6		18	75	6	
HMEL435-050200-100-S06	5		20	100	6	
HMEL435-060240-100-S06	6		24	100	6	
HMEL435-080240-075-S08	8		24	75	8	
HMEL435-080320-100-S08	8		32	100	8	
HMEL435-100400-100-S10	10		40	100	10	
HMEL435-120480-100-S12	12		48	100	12	

加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	---------------------------	----------------------------------	---------------------------------	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

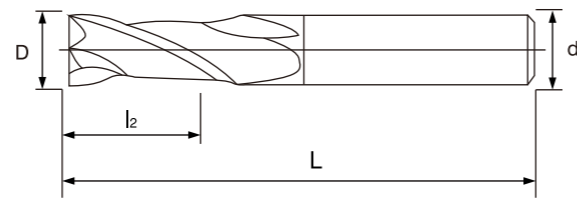
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	---------------------------	----------------------------------	---------------------------------	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

HME235二刃平底铣刀

HM-MAX Flat End Mill 2-Flute 35°



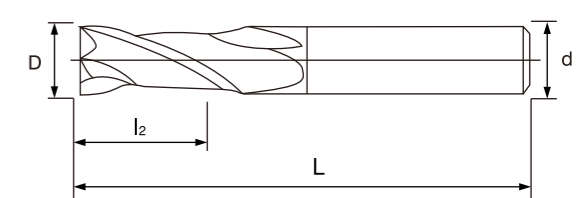
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HME235-010030-050-S04	1.0		3	50	4	
HME235-015040-050-S04	1.5		4	50	4	
HME235-020060-050-S04	2		6	50	4	
HME235-025070-050-S04	2.5		7	50	4	
HME235-030090-050-S03	3		9	50	3	
HME235-030090-050-S04	3		9	50	4	
HME235-040110-050-S04	4		11	50	4	
HME235-050130-050-S06	5		13	50	6	
HME235-060160-050-S06	6		16	50	6	
HME235-080200-060-S08	8		20	60	8	
HME235-100250-075-S10	10		25	75	10	
HME235-120300-075-S12	12		30	75	12	
HME235-140350-100-S14	14		35	100	14	
HME235-160400-100-S16	16		40	100	16	
HME235-180450-100-S18	18		45	100	18	
HME235-200500-100-S20	20		50	100	20	

HMEL235二刃加长柄平底铣刀

HM-MAX Long Flute Flat End Mill 2-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HMEL235-030090-075-S04	3		9	75	4	
HMEL235-040120-075-S04	4		12	75	4	
HMEL235-030120-100-S04	3		12	100	4	
HMEL235-040160-100-S04	4		16	100	4	
HMEL235-050150-075-S06	5		15	75	6	
HMEL235-060180-075-S06	6		18	75	6	
HMEL235-050200-100-S06	5		20	100	6	
HMEL235-060240-100-S06	6		24	100	6	
HMEL235-080240-075-S08	8		24	75	8	
HMEL235-080320-100-S08	8		32	100	8	
HMEL235-100400-100-S10	10		40	100	10	
HMEL235-120480-100-S12	12		48	100	12	

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

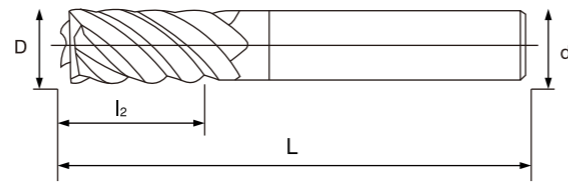
◉最适合Fit best ◊适合Fit

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◊适合Fit

HME645 六刃平底铣刀

HM-MAX Flat End Mill 6-Flute 45°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HME645-060180-060-S06	6		18	50	6	
HME645-080200-060-S08	8		20	60	8	
HME645-100300-075-S10	10		30	75	10	
HME645-120320-075-S12	12		32	75	12	
HME645-160400-100-S16	16		40	100	16	
HME645-200450-100-S20	20		45	100	20	

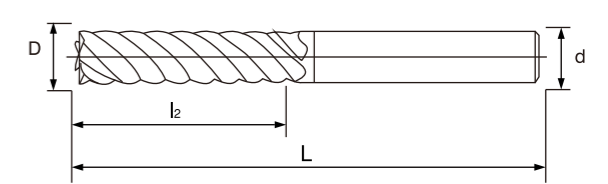
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65 HRC HRC HRC HRC HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	---------------------------	----------------------------------	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

HMEL645 六刃加长柄平底铣刀

HM-MAX Long Flute Flat End Mill 6-Flute 45°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₂ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HMEL645-606240-075-S06	6		24	75	6	
HMEL645-060240-100-S06	6		24	100	6	
HMEL645-080320-075-S08	8		32	75	8	
HMEL645-080320-100-S08	8		32	100	8	
HMEL645-100450-100-S10	10		40	100	10	
HMEL645-120450-100-S12	12		45	100	12	
HMEL645-160640-150-S16	16		64	150	16	
HMEL645-200750-150-S20	20		75	150	20	

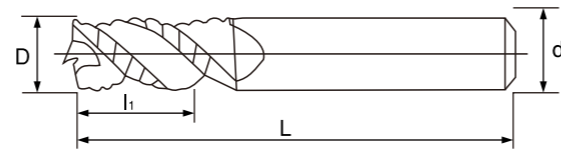
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65 HRC HRC HRC HRC HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	---------------------------	----------------------------------	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◉最适合Fit best ◊适合Fit

HMRE430 四刃粗皮铣刀

HM-MAX Roughing Flat End Mill 4-Flute 30°



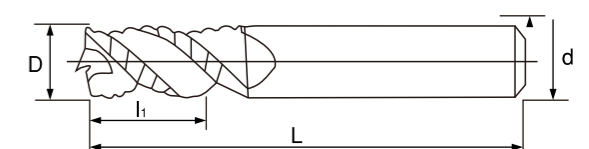
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₁ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HMRE430-030080-050-S04	3		8	50	4	
HMRE430-040100-050-S04	4		10	50	4	
HMRE430-060150-060-S06	6		15	50	6	
HMRE430-080200-060-S08	8		20	60	8	
HMRE430-100250-075-S10	10		25	75	10	
HMRE430-120300-075-S12	12		30	75	12	
HMRE430-160400-100-S16	16		40	100	16	
HMRE430-200500-100-S20	20		50	100	20	

HMREL430 四刃加长柄粗皮铣刀

HM-MAX Long Flute Roughing Flat End Mill 4-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l ₁ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HMREL430-060240-100-S06	6		24	100	6	
HMREL430-080320-100-S08	8		32	100	8	
HMREL430-100400-100-S10	10		40	100	10	
HMREL430-120480-100-S12	12		48	100	12	
HMREL430-160650-150-S16	16		65	150	16	
HMREL430-200800-150-S20	20		80	150	20	

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel 淬火钢 Hardness steel	NAK/HPM Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

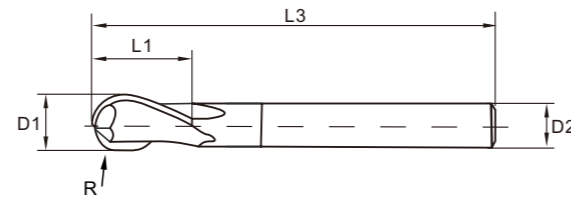
◉最适合Fit best ◊适合Fit

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel 淬火钢 Hardness steel	NAK/HPM Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◊适合Fit

HYB230 二刃球头铣刀

HY-MAX Ball End Mill 2-Flute 30°



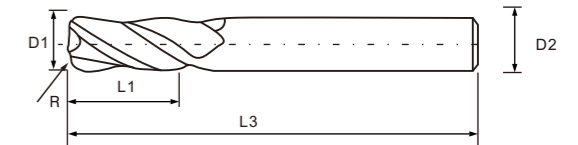
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D1 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L3 全长 O.A.L.	D2 柄径 Shank Dia.	RMB 单价 List Price
HYB230-010020-050-S04	1.0	R0.5	2	50	4	
HYB230-015030-050-S04	1.5	R0.75	3	50	4	
HYB230-020040-050-S04	2.0	R0.1	4	50	4	
HYB230-030060-050-S04	3.0	R1.5	6	50	4	
HYB230-040080-050-S04	4.0	R2.0	8	50	4	
HYB230-040080-075-S04	4.0	R2.0	8	75	4	
HYB230-050100-050-S06	5.0	R2.5	10	50	6	
HYB230-060120-050-S06	6.0	R3.0	12	50	6	
HYB230-060120-075-S06	6.0	R3.0	12	75	6	
HYB230-060120-100-S06	6.0	R3.0	12	100	6	
HYB230-080160-060-S08	8.0	R4.0	16	60	8	
HYB230-080160-075-S08	8.0	R4.0	16	75	8	
HYB230-080160-100-S08	8.0	R4.0	16	100	8	
HYB230-100200-075-S10	10	R5.0	20	75	10	
HYB230-100200-100-S10	10	R5.0	20	100	10	
HYB230-120240-075-S12	12	R6.0	24	75	12	
HYB230-120240-100-S12	12	R6.0	24	100	12	

HYR435 四刃圆鼻铣刀

HY-MAX Radius End Mill 4-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D1 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L3 全长 O.A.L.	D2 柄径 Shank Dia.	RMB 单价 List Price
HYR435-010030R0.2-050-S04	1	R0.2	3	50	4	
HYR435-020050R0.2-050-S04	2	R0.2	5	50	4	
HYR435-030070R0.2-050-S04	3	R0.2	7	50	4	
HYR435-030070R0.5-050-S04	3	R0.5	7	50	4	
HYR435-040100R0.2-050-S04	4	R0.2	10	50	4	
HYR435-040100R0.5-050-S04	4	R0.5	10	50	4	
HYR435-060150R0.5-050-S06	6	R0.5	15	50	6	
HYR435-060150R1.0-050-S06	6	R1.0	15	50	6	
HYR435-060150R0.5-075-S06	6	R0.5	15	75	6	
HYR435-060150R1.0-075-S06	6	R1.0	15	75	6	
HYR435-060150R0.5-100-S06	6	R0.5	15	100	6	
HYR435-060150R1.0-100-S06	6	R1.0	15	100	6	
HYR435-080200R0.5-060-S08	8	R0.5	20	60	8	
HYR435-080200R1.0-060-S08	8	R1.0	20	60	8	
HYR435-080200R0.5-075-S08	8	R0.5	20	75	8	
HYR435-080200R1.0-075-S08	8	R1.0	20	75	8	
HYR435-080200R0.5-100-S08	8	R0.5	20	100	8	
HYR435-080200R1.0-100-S08	8	R1.0	20	100	8	
HYR435-100250R0.5-075-S10	10	R0.5	25	75	10	
HYR435-100250R1.0-075-S10	10	R1.0	25	75	10	
HYR435-100250R0.5-100-S10	10	R0.5	25	100	10	
HYR435-100250R1.0-100-S10	10	R1.0	25	100	10	
HYR435-120300R0.5-075-S12	12	R0.5	30	75	12	
HYR435-120300R1.0-075-S12	12	R1.0	30	75	12	
HYR435-120300R0.5-100-S12	12	R0.5	30	100	12	
HYR435-120300R1.0-100-S12	12	R1.0	30	100	12	

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	~50 ~55 ~60 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

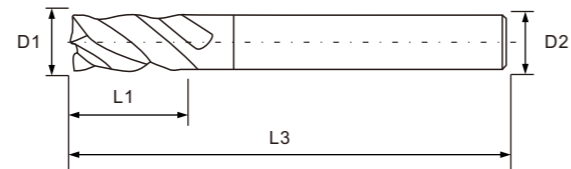
◉最适合Fit best ◊适合Fit

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	~50 ~55 ~60 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◊适合Fit

HYE445 四刃平底铣刀

HY-MAX Flat End Mill 4-Flute 45°



产品规格 | SPECIFICATIONS

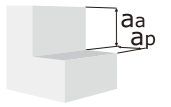
unit:mm

型号 Type No.	D1 直径 Diameter	L1 刃长 Flute Length	L3 全长 O.A.L.	D2 柄径 Shank Dia.	RMB 单价 List Price
HYE445-010030-050-S04	1.0	3	50	4	
HYE445-015040-050-S04	1.5	4	50	4	
HYE445-020060-050-S04	2.0	6	50	4	
HYE445-025080-050-S04	2.5	8	50	4	
HYE445-030080-050-S04	3.0	8	50	4	
HYE445-040110-050-S04	4.0	11	50	4	
HYE445-040150-075-S04	4.0	15	75	4	
HYE445-050130-050-S06	5.0	13	50	6	
HYE445-060160-050-S06	6.0	16	50	6	
HYE445-060200-075-S06	6.0	20	75	6	
HYE445-080200-060-S08	8.0	20	60	8	
HYE445-080250-100-S08	8.0	25	100	8	
HYE445-100250-075-S10	10.0	25	75	10	
HYE445-100300-100-S10	10.0	30	100	10	
HYE445-120300-075-S12	12.0	30	75	12	
HYE445-120350-100-S12	12.0	35	100	12	

加工材料 Work Material																							
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	淬火钢 Hardness steel	~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

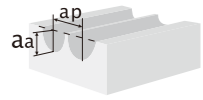
●最适合Fit best ○适合Fit

侧铣 Side milling



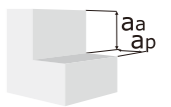
H	工件材料 The workpiece material	加工条件 Processing conditions	线速度 Vc m/min	切削量 ap mm	刃径 d1 mm	进给 F(mm/min)					
						2	4	6	8	10	12
H	合金钢 淬硬钢 Alloy Steel Hardened Steel <55HRC	高速加工 High Speed	220	ap≤0.5D ae≤0.02D	转速 N (min-1) 进给 F(mm/min)	35000	17500	11600	8700	7000	5800
		普通加工 General	100	ap≤1D ae≤0.05D	转速 N (min-1) 进给 F(mm/min)	15900	7900	5300	3900	3100	2600
		高速加工 High Speed	140	ap≤0.3D ae≤0.01D	转速 N (min-1) 进给 F(mm/min)	22000	11000	7400	5500	4400	3700
	合金钢 淬硬钢 Alloy Steel Hardened Steel 55-65HRC	普通加工 General	80	ap≤0.7D ae≤0.03D	转速 N (min-1) 进给 F(mm/min)	12700	6400	4200	3200	2500	2100
		高速加工 High Speed	140	ap≤0.3D ae≤0.01D	转速 N (min-1) 进给 F(mm/min)	22000	11000	7400	5500	4400	3700
		普通加工 General	80	ap≤0.7D ae≤0.03D	转速 N (min-1) 进给 F(mm/min)	12700	6400	4200	3200	2500	2100

仿形铣 Copying milling



H	工件材料 The workpiece material	加工条件 Processing conditions	线速度 Vc m/min	切削量 ap mm	刃径 d1 mm	进给 F(mm/min)					
						2	4	6	8	10	12
H	合金钢 淬硬钢 Alloy Steel Hardened Steel <65HRC	高速加工 High Speed	220	ap≤0.03D ae≤0.03D	转速 N (min-1) 进给 F(mm/min)	35000	17500	11600	8700	7000	5800
		普通加工 General	150	ap≤0.08D ae≤0.03D	转速 N (min-1) 进给 F(mm/min)	24000	12000	7900	5900	4800	4000
		高速加工 High Speed	140	ap≤0.03D ae≤0.03D	转速 N (min-1) 进给 F(mm/min)	22000	11000	7400	5500	4400	3700

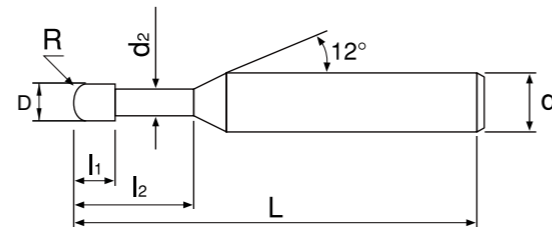
侧铣 Side milling



H	工件材料 The workpiece material	加工条件 Processing conditions	线速度 Vc m/min	切削量 ap mm	刃径 d1 mm	进给 F(mm/min)					
						2	4	6	8	10	12
H	合金钢 淬硬钢 Alloy Steel Hardened Steel <55HRC	高速加工 High Speed	220	ap≤0.5D ae≤0.02D	转速 N (min-1) 进给 F(mm/min)	35000	17500	11600	8700	7000	5800
		普通加工 General	100	ap≤1D ae≤0.05D	转速 N (min-1) 进给 F(mm/min)	15900	7900	5300	3900	3100	2600
		高速加工 High Speed	140	ap≤0.3D ae≤0.01D	转速 N (min-1) 进给 F(mm/min)	22000	11000	7400	5500	4400	3700
	合金钢 淬硬钢 Alloy Steel Hardened Steel 55-65HRC	普通加工 General	80	ap≤0.7D ae≤0.03D	转速 N (min-1) 进给 F(mm/min)	12700	6400	4200	3200	2500	2100
		高速加工 High Speed	140	ap≤0.3D ae≤0.01D	转速 N (min-1) 进给 F(mm/min)	22000	11000	7400	5500	4400	3700
		普通加工 General	80	ap≤0.7D ae≤0.03D	转速 N (min-1) 进给 F(mm/min)	12700	6400	4200	3200	2500	2100

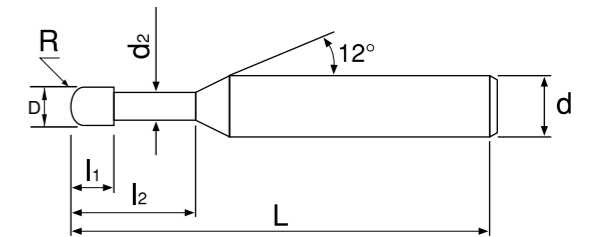
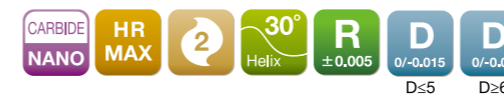
HRB230 小径深加工二刃球头铣刀

HR-MAX Rib Ball End Mill 2-Flute 30°



HRB230 小径深加工二刃球头铣刀

HR-MAX Rib Radius End Mill 2-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	d ₂ 避空 Avoid empty	l ₂ 颈长 Effective Length	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRB230-020010-050-S04	0.2	0.18	1	R0.1	1	50	4	
HRB230-020015-050-S04	0.2	0.18	1.5	R0.1	1.5	50	4	
HRB230-020020-050-S04	0.2	0.18	2	R0.1	2	50	4	
HRB230-030010-050-S04	0.3	0.27	1	R0.15	1	50	4	
HRB230-030020-050-S04	0.3	0.27	2	R0.15	2	50	4	
HRB230-030030-050-S04	0.3	0.27	3	R0.15	3	50	4	
HRB230-040010-050-S04	0.4	0.37	1	R0.2	1	50	4	
HRB230-040020-050-S04	0.4	0.37	2	R0.2	2	50	4	
HRB230-040040-050-S04	0.4	0.37	4	R0.2	4	50	4	
HRB230-040060-050-S04	0.4	0.37	6	R0.2	6	50	4	
HRB230-050020-050-S04	0.5	0.46	2	R0.25	2	50	4	
HRB230-050040-050-S04	0.5	0.46	4	R0.25	4	50	4	
HRB230-050060-050-S04	0.5	0.46	6	R0.25	6	50	4	
HRB230-050080-050-S04	0.5	0.46	8	R0.25	8	50	4	
HRB230-060020-050-S04	0.6	0.55	2	R0.3	2	50	4	
HRB230-060030-050-S04	0.6	0.55	3	R0.3	3	50	4	
HRB230-060040-050-S04	0.6	0.55	4	R0.3	4	50	4	
HRB230-060060-050-S04	0.6	0.55	6	R0.3	6	50	4	
HRB230-060080-050-S04	0.6	0.55	8	R0.3	8	50	4	
HRB230-080020-050-S04	0.8	0.75	2	R0.4	2	50	4	
HRB230-080040-050-S04	0.8	0.75	4	R0.4	4	50	4	
HRB230-080060-050-S04	0.8	0.75	6	R0.4	6	50	4	
HRB230-080080-050-S04	0.8	0.75	8	R0.4	8	50	4	
HRB230-080100-050-S04	0.8	0.75	10	R0.4	10	50	4	
HRB230-100040-050-S04	1.0	0.95	4	R0.5	4	50	4	
HRB230-100060-050-S04	1.0	0.95	6	R0.5	6	50	4	
HRB230-100080-050-S04	1.0	0.95	8	R0.5	8	50	4	
HRB230-100100-050-S04	1.0	0.95	10	R0.5	10	50	4	
HRB230-100120-050-S04	1.0	0.95	12	R0.5	12	50	4	
HRB230-100160-050-S04	1.0	0.95	16	R0.5	16	50	4	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

产品规格 | SPECIFICATIONS

unit:mm

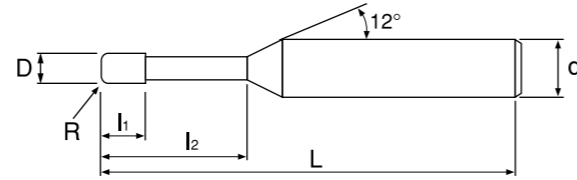
型号 Type No.	D 直径 Diameter	d ₂ 柄径 Shank diameter	l ₂ 颈长 Effective Length	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRB230-012060-050-S04	1.2	1.15	6	R0.6	1.2	50	4	
HRB230-012080-050-S04	1.2	1.15	8	R0.6	1.2	50	4	
HRB230-015100-050-S04	1.2	1.15	10	R0.6	1.2	50	4	
HRB230-015120-050-S04	1.2	1.15	12	R0.6	1.2	50	4	
HRB230-015060-050-S04	1.5	1.45	6	R0.75	1.5	50	4	
HRB230-015080-050-S04	1.5	1.45	8	R0.75	1.5	50	4	
HRB230-015100-050-S04	1.5	1.45	10	R0.75	1.5	50	4	
HRB230-015120-050-S04	1.5	1.45	12	R0.75	1.5	50	4	
HRB230-015160-050-S04	1.5	1.45	16	R0.75	1.5	50	4	
HRB230-015200-050-S04	1.5	1.45	20	R0.75	1.5	50	4	
HRB230-020080-050-S04	2.0	1.95	8	R1.0	2.0	50	4	
HRB230-020100-050-S04	2.0	1.95	10	R1.0	2.0	50	4	
HRB230-020120-050-S04	2.0	1.95	12	R1.0	2.0	50	4	
HRB230-020160-050-S04	2.0	1.95	16	R1.0	2.0	50	4	
HRB230-020180-050-S04	2.0	1.95	18	R1.0	2.0	50	4	
HRB230-030200-050-S06	2.0	1.95	22	R1.0	2.0	50	4	
HRB230-030100-050-S06	3.0	2.85	10	R1.5	3.0	50	6	
HRB230-030120-050-S06	3.0	2.85	12	R1.5	3.0	50	6	
HRB230-030160-050-S06	3.0	2.85	16	R1.5	3.0	50	6	
HRB230-030300-070-S06	3.0	2.85	20	R1.5	3.0	50	6	
HRB230-040160-050-S06	4.0	3.85	16	R2.0	4.0	50	6	
HRB230-040200-050-S06	4.0	3.85	20	R2.0	4.0	50	6	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

HRR430 小径深加工四刃圆鼻铣刀

HR-MAX Rib Radius End Mill 4-Flute 30°



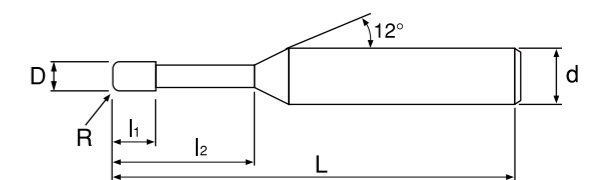
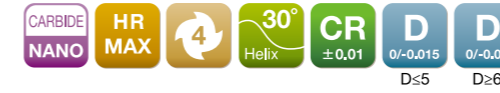
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	l ₂ 颈长 Effective Length	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRR430-010040R0.1-050-S04	1.0	4	R0.1	1.5	50	4	
HRR430-010060R0.1-050-S04	1.0	6	R0.1	1.5	50	4	
HRR430-010080R0.1-050-S04	1.0	8	R0.1	1.5	50	4	
HRR430-010040R0.2-050-S04	1.0	4	R0.2	1.5	50	4	
HRR430-010060R0.2-050-S04	1.0	6	R0.2	1.5	50	4	
HRR430-010080R0.2-050-S04	1.0	8	R0.2	1.5	50	4	
HRR430-015060R0.2-050-S04	1.5	6	R0.2	2.3	50	4	
HRR430-015080R0.2-050-S04	1.5	8	R0.2	2.3	50	4	
HRR430-015100R0.2-050-S04	1.5	10	R0.2	2.3	50	4	
HRR430-020080R0.1-050-S04	2.0	8	R0.1	3.0	50	4	
HRR430-020100R0.1-050-S04	2.0	10	R0.1	3.0	50	4	
HRR430-020120R0.1-050-S04	2.0	12	R0.1	3.0	50	4	
HRR430-020160R0.1-050-S04	2.0	16	R0.1	3.0	50	4	
HRR430-020080R0.2-050-S04	2.0	8	R0.2	3.0	50	4	
HRR430-020100R0.2-050-S04	2.0	10	R0.2	3.0	50	4	
HRR430-020120R0.2-050-S04	2.0	12	R0.2	3.0	50	4	
HRR430-020160R0.2-050-S04	2.0	16	R0.2	3.0	50	4	

HRR430 小径深加工四刃圆鼻铣刀

HR-MAX Rib Radius End Mill 4-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	l ₂ 颈长 Effective Length	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRR430-030120R0.2-050-S04	3.0	4.5	R0.2	12	50	6	
HRR430-030160R0.2-050-S06	3.0	4.5	R0.2	16	50	6	
HRR430-030200R0.2-050-S06	3.0	4.5	R0.2	20	50	6	
HRR430-030260R0.2-070-S06	3.0	4.5	R0.2	26	70	6	
HRR430-030300R0.2-070-S06	3.0	4.5	R0.2	30	70	6	
HRR430-030260R0.3-070-S06	3.0	4.5	R0.3	26	70	6	
HRR430-030300R0.3-070-S06	3.0	4.5	R0.3	30	70	6	
HRR430-030120R0.5-050-S06	3.0	4.5	R0.5	12	50	6	
HRR430-030160R0.5-050-S06	3.0	4.5	R0.5	16	50	6	
HRR430-030200R0.5-050-S06	3.0	4.5	R0.5	20	50	6	
HRR430-030260R0.5-070-S06	3.0	4.5	R0.5	26	70	6	
HRR430-030300R0.5-070-S06	3.0	4.5	R0.5	30	70	6	
HRR430-040160R0.2-050-S06	4.0	6	R0.2	16	50	6	
HRR430-040200R0.2-050-S06	4.0	6	R0.2	20	50	6	
HRR430-040160R0.3-050-S06	4.0	6	R0.3	16	50	6	
HRR430-040200R0.3-050-S06	4.0	6	R0.3	20	50	6	
HRR430-040160R0.5-050-S06	4.0	6	R0.5	16	50	6	
HRR430-040200R0.5-050-S06	4.0	6	R0.5	20	50	6	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热线 Pre Hardened Steel 淬火钢 Hardness steel	NAK/HPM HRCHRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

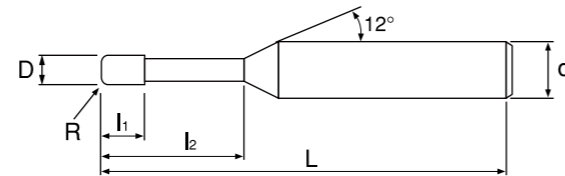
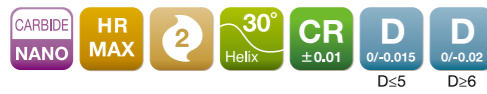
◎最适合Fit best ○适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热线 Pre Hardened Steel 淬火钢 Hardness steel	NAK/HPM HRCHRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

HRR230 小径深加工二刃圆鼻铣刀

HR-MAX Rib Radius End Mill 2-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

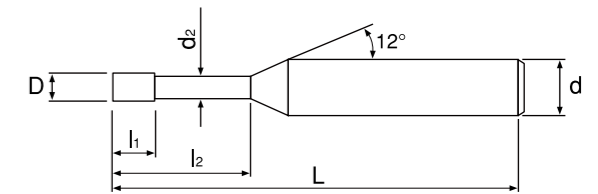
型号 Type No.	D 直径 Diameter	l ₂ 颈长 Effective Length	R R角 Corner R	L ₁ 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRR230-005020R0.05-050-S04	0.5	2	R0.05	0.7	50	4	
HRR230-005040R0.05-050-S04	0.5	4	R0.05	0.7	50	4	
HRR230-005060R0.05-050-S04	0.5	6	R0.05	0.7	50	4	
HRR230-006020R0.05-050-S04	0.6	2	R0.05	0.9	50	4	
HRR230-006040R0.05-050-S04	0.6	4	R0.05	0.9	50	4	
HRR230-006060R0.05-050-S04	0.6	6	R0.05	0.9	50	4	
HRR230-008040R0.05-050-S04	0.8	4	R0.05	1.2	50	4	
HRR230-008060R0.05-050-S04	0.8	6	R0.05	1.2	50	4	

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

HRE430 小径深加工四刃平底铣刀

HR-MAX Rib Flat End Mill 4-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	l ₂ 颈长 Effective Length	L ₁ 刃长 Flute Length	d ₂ 直径 Diameter	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRE430-010050-050-S04	1.0	5	1.5	0.95	50	4	
HRE430-010060-050-S04	1.0	6	1.5	0.95	50	4	
HRE430-010080-050-S04	1.0	8	1.5	0.95	50	4	
HRE430-010100-050-S04	1.0	10	1.5	0.95	50	4	
HRE430-010120-050-S04	1.0	12	1.5	0.95	50	4	
HRE430-010160-050-S04	1.0	16	1.5	0.95	50	4	
HRE430-015060-050-S04	1.5	6	2.3	1.45	50	4	
HRE430-015080-050-S04	1.5	8	2.3	1.45	50	4	
HRE430-015100-050-S04	1.5	10	2.3	1.45	50	4	
HRE430-015120-050-S04	1.5	12	2.3	1.45	50	4	
HRE430-015160-050-S04	1.5	16	2.3	1.45	50	4	
HRE430-015180-050-S04	1.5	18	2.3	1.45	50	4	
HRE430-015200-050-S04	1.5	20	3.0	1.45	50	4	
HRE430-020080-050-S04	2.0	8	3.0	1.95	50	4	
HRE430-020100-050-S04	2.0	10	3.0	1.95	50	4	
HRE430-020120-050-S04	2.0	12	3.0	1.95	50	4	
HRE430-020160-050-S04	2.0	16	3.0	1.95	50	4	
HRE430-020180-050-S04	2.0	18	3.0	1.95	50	4	
HRE430-020200-050-S04	2.0	20	3.0	1.95	50	4	
HRE430-020220-050-S04	2.0	22	3.0	1.95	50	4	
HRE430-030120-050-S04	3.0	12	4.5	2.85	50	6	
HRE430-030160-050-S04	3.0	16	4.5	2.85	50	6	
HRE430-030200-050-S04	3.0	20	4.5	2.85	50	6	
HRE430-040160-050-S06	4.0	16	6	3.85	50	6	
HRE430-040200-050-S06	4.0	20	6	3.85	50	6	

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

HRE230 小径深加工二刃平底铣刀

HR-MAX Rib Flat End Mill 2-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	L1 刃长 Flute Length	d2 直径 Diameter	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRE230-002010-050-S04	0.2	1	0.3	0.18	50	4	
HRE230-002015-050-S04	0.2	1.5	0.3	0.18	50	4	
HRE230-002020-050-S04	0.2	2	0.3	0.18	50	4	
HRE230-003010-050-S04	0.3	1	0.5	0.27	50	4	
HRE230-003020-050-S04	0.3	2	0.5	0.27	50	4	
HRE230-003030-050-S04	0.3	3	0.5	0.27	50	4	
HRE230-004020-050-S04	0.4	2	0.6	0.37	50	4	
HRE230-004040-050-S04	0.4	4	0.6	0.37	50	4	
HRE230-004060-050-S04	0.4	6	0.6	0.37	50	4	
HRE230-005020-050-S04	0.5	2	0.7	0.45	50	4	
HRE230-005030-050-S04	0.5	3	0.7	0.45	50	4	
HRE230-005040-050-S04	0.5	4	0.7	0.45	50	4	
HRE230-005060-050-S04	0.5	6	0.7	0.45	50	4	
HRE230-005080-050-S04	0.5	8	0.7	0.45	50	4	
HRE230-006020-050-S04	0.6	2	0.9	0.55	50	4	
HRE230-006030-050-S04	0.6	3	0.9	0.55	50	4	
HRE230-006040-050-S04	0.6	4	0.9	0.55	50	4	
HRE230-006060-050-S04	0.6	6	0.9	0.55	50	4	
HRE230-006080-050-S04	0.6	8	0.9	0.55	50	4	
HRE230-007040-050-S04	0.7	4	1.0	0.65	50	4	
HRE230-007060-050-S04	0.7	6	1.0	0.65	50	4	
HRE230-007080-050-S04	0.7	8	1.0	0.65	50	4	
HRE230-007100-050-S04	0.7	10	1.0	0.65	50	4	
HRE230-008040-050-S04	0.8	4	1.2	0.95	50	4	
HRE230-008060-050-S04	0.8	6	1.2	0.95	50	4	
HRE230-008080-050-S04	0.8	8	1.2	0.95	50	4	
HRE230-008100-050-S04	0.8	10	1.2	0.95	50	4	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢	铸铁 Cast Iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◉适合Fit

HRE230 小径深加工二刃平底铣刀

HR-MAX Rib Flat End Mill 2-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

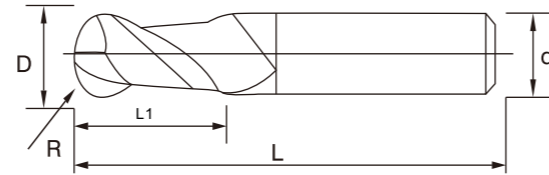
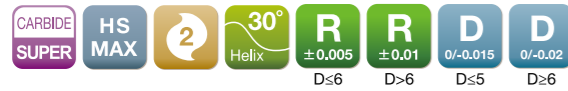
型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	L1 刃长 Flute Length	d2 直径 Diameter	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HRE230-010050-050-S04	1.0	5	1.5	0.95	50	4	
HRE230-010060-050-S04	1.0	6	1.5	0.95	50	4	
HRE230-010080-050-S04	1.0	8	1.5	0.95	50	4	
HRE230-010100-050-S04	1.0	10	1.5	0.95	50	4	
HRE230-010120-050-S04	1.0	12	1.5	0.95	50	4	
HRE230-010160-050-S04	1.0	16	1.5	0.95	50	4	
HRE230-015060-050-S04	1.5	6	2.3	1.45	50	4	
HRE230-015080-050-S04	1.5	8	2.3	1.45	50	4	
HRE230-015100-050-S04	1.5	10	2.3	1.45	50	4	
HRE230-015120-050-S04	1.5	12	2.3	1.45	50	4	
HRE230-015160-050-S04	1.5	16	2.3	1.45	50	4	
HRE230-015180-050-S04	1.5	18	2.3	1.45	50	4	
HRE230-015200-050-S04	1.5	20	2.3	1.45	50	4	
HRE230-020080-050-S04	2.0	8	3.0	1.95	50	4	
HRE230-020100-050-S04	2.0	10	3.0	1.95	50	4	
HRE230-020120-050-S04	2.0	12	3.0	1.95	50	4	
HRE230-020160-050-S04	2.0	16	3.0	1.95	50	4	
HRE230-020180-050-S04	2.0	18	3.0	1.95	50	4	
HRE230-020200-050-S04	2.0	20	3.0	1.95	50	4	
HRE230-020220-050-S04	2.0	22	3.0	1.95	50	4	
HRE230-030120-050-S06	3.0	12	4.5	2.85	50	6	
HRE230-030160-050-S06	3.0	16	4.5	2.85	50	6	
HRE230-030200-050-S06	3.0	20	4.5	2.85	70	6	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢	铸铁 Cast Iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◉适合Fit

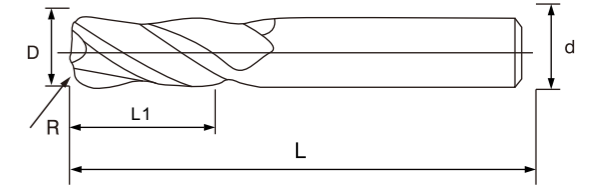
HSB230 二刃球头铣刀

HS-MAX Ball End Mill 2-Flute 30°



HSR435 四刃圆鼻铣刀

HS-MAX RADIUS End Mill 4-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HSB230-010020-050-S04	0.5	0.25	2	50	4	
HSB230-015030-050-S04	0.75	0.375	3	50	4	
HSB230-020040-050-S04	1	0.5	4	50	4	
HSB230-030060-050-S04	1.5	0.75	6	50	4	
HSB230-030060-050-S04	1.5	0.75	6	50	4	
HSB230-040080-050-S04	2	1.0	8	50	4	
HSB230-040080-050-S06	2	1.0	8	50	6	
HSB230-050100-050-S06	2.5	1.25	10	50	6	
HSB230-060120-050-S06	3	1.5	12	50	6	
HSB230-060120-075-S06	3	1.5	12	75	6	
HSB230-060120-100-S06	3	1.5	12	100	6	
HSB230-080160-060-S08	4	2.0	16	60	8	
HSB230-080160-075-S08	4	2.0	16	75	8	
HSB230-080160-100-S08	4	2.0	16	100	8	
HSB230-100200-075-S10	5	2.5	20	75	10	
HSB230-100200-100-S10	5	2.5	20	100	10	
HSB230-120240-075-S12	6	3.0	24	75	12	
HSB230-120240-100-S12	6	3.0	24	100	12	

产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HSR435-010R0.2-050-S04	1	0.2	3	50	4	
HSR435-020R0.2-050-S04	2	0.2	6	50	4	
HSR435-030R0.2-050-S04	3	0.2	8	50	4	
HSR435-030R0.5-050-S04	3	0.5	8	50	4	
HSR435-040R0.2-050-S04	4	0.2	11	50	4	
HSR435-040R0.5-050-S04	4	0.5	11	50	4	
HSR435-060R0.2-050-S06	6	0.2	16	50	6	
HSR435-060R0.5-050-S06	6	0.5	16	50	6	
HSR435-060R1.0-050-S06	6	1	16	50	6	
HSR435-060R0.5-075-S06	6	0.5	16	75	6	
HSR435-060R1.0-075-S06	6	1	16	75	6	
HSR435-060R0.5-100-S06	6	0.5	16	100	6	
HSR435-060R1.0-100-S06	6	1	16	100	6	
HSR435-080R0.5-060-S08	8	0.5	20	60	8	
HSR435-080R1.0-060-S08	8	1	20	60	8	
HSR435-080R0.5-075-S08	8	0.5	20	75	8	
HSR435-080R1.0-075-S08	8	1	20	75	8	
HSR435-080R0.5-100-S08	8	0.5	20	100	8	
HSR435-080R1.0-100-S08	8	1	20	100	8	
HSR435-100R0.5-075-S10	10	0.5	25	75	10	
HSR435-100R1.0-075-S10	10	1	25	75	10	
HSR435-100R0.5-100-S10	10	0.5	25	100	10	
HSR435-100R1.0-100-S10	10	1	25	100	10	
HSR435-120R0.5-075-S12	12	0.5	30	75	12	
HSR435-120R1.0-075-S12	12	1	30	75	12	
HSR435-120R0.5-100-S12	12	0.5	30	100	12	
HSR435-120R1.0-100-S12	12	1	30	100	12	

加工材料 Work Material																			
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木	石墨	氧化锆	单晶硅	陶瓷	碳纤维	
S45C	SK-SCM	S304L	Pre Hardened Steel	淬硬钢															Cast Iron
S55C	SUS	316L	~50 ~55 ~60 ~62 ~65	HRCHRC															

◎最适合Fit best ○适合Fit

加工材料 Work Material																			
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木	石墨	氧化锆	单晶硅	陶瓷	碳纤维	
S45C	SK-SCM	S304L	Pre Hardened Steel	淬硬钢															Cast Iron
S55C	SUS	316L	~50 ~55 ~60 ~62 ~65	HRCHRC															

◎最适合Fit best ○适合Fit

HSE435 四刃平底铣刀

HS-MAX Flat End Mill 4-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D1 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HSE435-010030-050-S04	1.0		3	50	4	
HSE435-015040-050-S04	1.5		4	50	4	
HSE435-020060-050-S04	2		6	50	4	
HSE435-025070-050-S04	2.5		7	50	4	
HSE435-030090-050-S04	3		9	50	4	
HSE435-030090-050-S03	3		9	50	3	
HSE435-040110-050-S04	4		11	50	4	
HSE435-050130-050-S06	5		13	50	6	
HSE435-060160-050-S06	6		16	50	6	
HSE435-080200-060-S08	8		20	60	8	
HSE435-100250-075-S10	10		25	75	10	
HSE435-120300-075-S12	12		30	75	12	
HSE435-140350-100-S14	14		35	100	14	
HSE435-160400-100-S16	16		40	100	16	
HSE435-180450-100-S18	18		45	100	18	
HSE435-200500-100-S20	20		50	100	20	

HSEL435 四刃加长柄平底铣刀

HS-MAX Long Flute Flat End Mill 4-Flute 35°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
HSEL435-030090-075-S04	3		9	75	4	
HSEL435-040120-075-S04	4		12	75	4	
HSEL435-030120-100-S04	3		12	100	4	
HSEL435-040120-100-S04	4		16	100	4	
HSEL435-050150-075-S06	5		15	75	6	
HSEL435-060180-075-S06	6		18	75	6	
HSEL435-050200-100-S06	5		20	100	6	
HSEL435-060240-100-S06	6		24	100	6	
HSEL435-080240-075-S08	8		24	75	8	
HSEL435-080320-100-S08	8		32	100	8	
HSEL435-100400-100-S10	10		40	100	10	
HSEL435-120480-100-S12	12		48	100	12	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

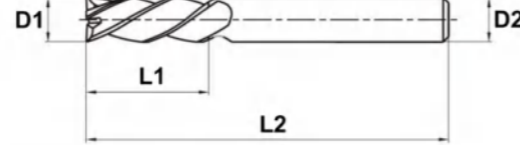
◎最适合Fit best ○适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◎最适合Fit best ○适合Fit

XSE445 四刃平底铣刀

XS-MAX Flat End Mill 4-Flute 45°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	F 切槽 Cutting Flute	A 螺旋升角 Helix Angle	D1 直径 Diameter	L1 切割长度 Cut Length	L2 总长度 Overall Length	D2 柄径 Shank Dia	单价 Unit Price (usd)
XSE445-010020-050-S04	4F	45°	1	2	50	4	
XSE445-010030-050-S04	4F	45°	1	3	50	4	
XSE445-015030-050-S04	4F	45°	2	3	50	4	
XSE445-015040-050-S04	4F	45°	2	4	50	4	
XSE445-020040-050-S04	4F	45°	2	4	50	4	
XSE445-020060-050-S04	4F	45°	2	6	50	4	
XSE445-025050-050-S04	4F	45°	3	5	50	4	
XSE445-025070-050-S04	4F	45°	3	7	50	4	
XSE445-030060-050-S04	4F	45°	3	6	50	4	
XSE445-030090-050-S04	4F	45°	3	9	50	4	
XSE445-035070-050-S04	4F	45°	4	7	50	4	
XSE445-035100-050-S04	4F	45°	4	10	50	4	
XSE445-040080-050-S04	4F	45°	4	8	50	4	
XSE445-040120-050-S04	4F	45°	4	12	50	4	
XSE445-050100-050-S06	4F	45°	5	10	50	6	
XSE445-050150-050-S06	4F	45°	5	15	50	6	
XSE445-060120-050-S06	4F	45°	6	12	50	6	
XSE445-060180-050-S06	4F	45°	6	18	50	6	
XSE445-080200-060-S08	4F	45°	8	20	60	8	
XSE445-080240-060-S08	4F	45°	8	24	60	8	
XSE445-100200-075-S10	4F	45°	10	20	75	10	
XSE445-100300-075-S10	4F	45°	10	30	75	10	
XSE445-120240-075-S12	4F	45°	12	24	75	12	
XSE445-120350-075-S12	4F	45°	12	35	75	12	
XSE445-040200-075-S04	4F	45°	4	20	75	4	
XSE445-060300-100-S06	4F	45°	6	30	100	6	
XSE445-080400-100-S08	4F	45°	8	40	100	8	
XSE445-100500-100-S10	4F	45°	10	50	100	10	
XSE445-120550-100-S12	4F	45°	12	55	100	12	

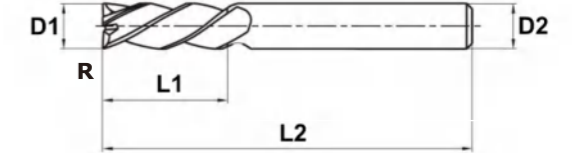
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	~50 HRC ~55 HRC ~60 HRC ~62 HRC ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	---	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◎最适合Fit best ○适合Fit

XSR445 四刃圆鼻铣刀

XS-MAX Radius End Mill 4-Flute 45°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	F 切槽 Cutting Flute	A 螺旋升角 Helix Angle	D1 直径 Diameter	L1 切割长度 Cut Length	R R角 Corner R	L2 总长度 Overall Length	D2 柄径 Shank Dia	单价 Unit Price (usd)
XSR445-040100R0.5-050-S04	4F	45°	4	10	R0.5	50	4	
XSR445-040100R0.2-050-S04	4F	45°	4	10	R0.2	50	4	
XSR445-040100R1.0-050-S04	4F	45°	4	10	R1.0	50	4	
XSR445-060150R0.5-050-S06	4F	45°	6	15	R0.5	50	6	
XSR445-060150R1.0-050-S06	4F	45°	6	15	R1.0	50	6	
XSR445-080200R0.5-060-S08	4F	45°	8	20	R0.5	60	8	
XSR445-080200R1.0-060-S08	4F	45°	8	20	R1.0	60	8	
XSR445-100250R0.5-075-S10	4F	45°	10	25	R0.5	75	10	
XSR445-100250R1.0-075-S10	4F	45°	10	25	R1.0	75	10	
XSR445-120300R0.5-075-S12	4F	45°	12	30	R0.5	75	12	
XSR445-120300R1.0-075-S12	4F	45°	12	30	R1.0	75	12	

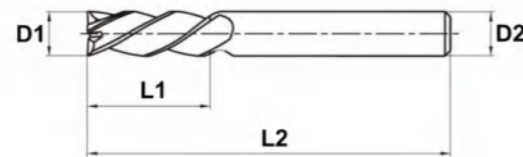
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	~50 HRC ~55 HRC ~60 HRC ~62 HRC ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	---	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◎最适合Fit best ○适合Fit

XSEL 445 四刃平底铣刀

XS-MAX Flat End Mill 4-Flute 45°



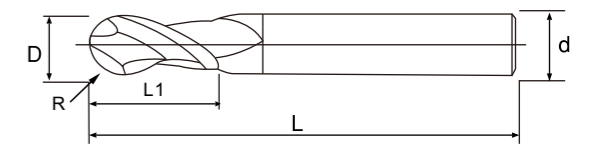
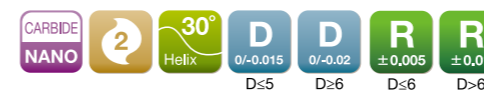
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	F 切槽 Cutting Flute	A 螺旋升角 Helix Angle	D1 直径 Diameter	L1 切割长度 Cut Length	L2 总长度 Overall Length	D2 柄径 Shank Dia	单价 Unit Price (usd)
XSEL445-040200-075-S04	4F	45°	4	20	75	4	
XSEL445-060300-100-S06	4F	45°	6	30	100	6	
XSEL445-080400-100-S08	4F	45°	8	40	100	8	
XSEL445-100500-100-S10	4F	45°	10	50	100	10	
XSEL445-120550-100-S12	4F	45°	12	55	100	12	

ALB230 二刃球头铣刀

ALU-MAX Ball End Mill 2-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
ALB230-020040-050-S04	2	R1	4	50	4	
ALB230-030060-050-S04	3	R1.5	6	50	4	
ALB230-040080-050-S04	4	R2	8	50	4	
ALB230-040080-075-S04	4	R2	8	75	4	
ALB230-040080-050-S06	4	R2	8	50	6	
ALB230-050100-050-S06	5	R2.5	10	50	6	
ALB230-060120-050-S06	6	R3	12	50	6	
ALB230-060120-075-S06	6	R3	12	75	6	
ALB230-060120-100-S06	6	R3	12	100	6	
ALB230-080160-060-S08	8	R4	16	60	8	
ALB230-080160-075-S08	8	R4	16	75	8	
ALB230-080160-100-S08	8	R4	16	100	8	
ALB230-100200-075-S10	10	R5	20	75	10	
ALB230-100200-100-S10	10	R5	20	100	10	
ALB230-120240-075-S12	12	R6	24	75	12	
ALB230-120240-100-S12	12	R6	24	100	12	

加工材料 Work Material																		
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木	石墨	氧化锆	单晶硅	陶瓷	碳纤维
S45C	SK-SCM	S304L	Pre Hardened Steel	淬火钢	Cast iron	Titanium Alloy	Heat Resistant Alloy	Copper Alloy	Aluminum Alloy	Resin	Plastics	Glass Fiber	Bakelite	Graphite	Zirconium oxide	Silicon	Ceramic	Carbon Fiber
S55C	SUS	316L	Hardness steel	~50 ~55 ~60 ~62 ~65	HRC													

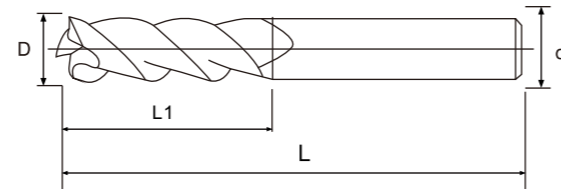
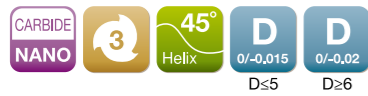
◎最适合Fit best ○适合Fit

加工材料 Work Material																		
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木	石墨	氧化锆	单晶硅	陶瓷	碳纤维
S45C	SK-SCM	S304L	Pre Hardened Steel	淬火钢	Cast iron	Titanium Alloy	Heat Resistant Alloy	Copper Alloy	Aluminum Alloy	Resin	Plastics	Glass Fiber	Bakelite	Graphite	Zirconium oxide	Silicon	Ceramic	Carbon Fiber
S55C	SUS	316L	Hardness steel	~50 ~55 ~60 ~62 ~65	HRC													

◎最适合Fit best ○适合Fit

ALE345 三刃平底铣刀

ALU-MAX Flat End Mill 3-Flute 45°



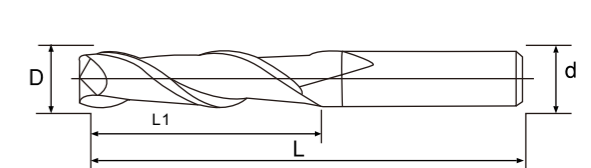
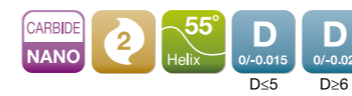
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
ALE345-010030-050-S04	1		3	50	4	
ALE345-015040-050-S04	1.5		4	50	4	
ALE345-020060-050-S04	2		6	50	4	
ALE345-025070-050-S04	2.5		7	50	4	
ALE345-030090-050-S04	3		9	50	4	
ALE345-040120-050-S04	4		12	50	4	
ALE345-040120-050-S06	4		12	50	6	
ALE345-050130-050-S06	5		13	50	6	
ALE345-060150-050-S06	6		15	50	6	
ALE345-080200-060-S08	8		20	60	8	
ALE345-100250-075-S10	10		25	75	10	
ALE345-120300-075-S12	12		30	75	12	
ALE345-160450-100-S16	16		45	100	16	
ALE345-200500-100-S20	20		50	100	20	

ALEL255 二刃加长柄平底铣刀

ALU-MAX Long Flute Flat End Mill 2-Flute 55°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
ALEL255-030090-075-S04	3		9	75	4	
ALEL255-040120-075-S04	4		12	75	4	
ALEL255-050160-075-S06	5		16	75	6	
ALEL255-060180-075-S06	6		18	75	6	
ALEL255-060180-100-S06	6		18	100	6	
ALEL255-080250-075-S08	8		25	75	8	
ALEL255-080250-100-S08	8		25	100	8	
ALEL255-100300-100-S10	10		30	100	10	
ALEL255-120360-100-S12	12		36	100	12	
ALEL255-160650-150-S16	16		65	150	16	
ALEL255-200800-150-S20	20		80	150	20	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

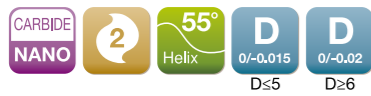
◉最适合Fit best ◊适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◊适合Fit

ALE255 二刃平底铣刀

ALU-MAX Flat End Mill 2-Flute 55°



产品规格 | SPECIFICATIONS

unit:mm

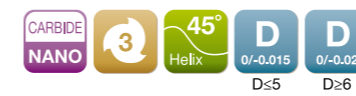
型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
ALE255-010030-050-S04	1		3	50	4	
ALE255-015040-050-S04	1.5		4	50	4	
ALE255-020060-050-S04	2		6	50	4	
ALE255-025070-050-S04	2.5		7	50	4	
ALE255-030090-050-S04	3		9	50	4	
ALE255-040120-050-S04	4		12	50	4	
ALE255-040120-050-S06	4		12	50	6	
ALE255-050130-050-S06	5		13	50	6	
ALE255-060150-050-S06	6		15	50	6	
ALE255-080200-060-S08	8		20	60	8	
ALE255-100250-075-S10	10		25	75	10	
ALE255-120300-075-S12	12		30	75	12	
ALE255-160450-100-S16	16		45	100	16	
ALE255-200500-100-S20	20		50	100	20	

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预硬钢 Pre Hardened Steel	NAK/HPM 淬硬钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

ALEL345 三刃加长柄平底铣刀

ALU-MAX Long Flute Flat End Mill 3-Flute 45°



产品规格 | SPECIFICATIONS

unit:mm

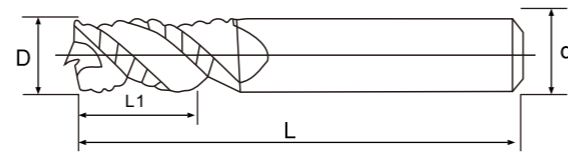
型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
ALEL345-030090-075-S04	3		9	75	4	
ALEL345-040120-075-S04	4		12	75	4	
ALEL345-050160-075-S06	5		16	75	6	
ALEL345-060180-075-S06	6		18	75	6	
ALEL345-060180-100-S06	6		18	100	6	
ALEL345-080250-075-S08	8		25	75	8	
ALEL345-080250-100-S08	8		25	100	8	
ALEL345-100300-100-S10	10		30	100	10	
ALEL345-120360-100-S12	12		36	100	12	
ALEL345-160650-150-S16	16		65	150	16	
ALEL345-200800-150-S20	20		80	150	20	

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预硬钢 Pre Hardened Steel	NAK/HPM 淬硬钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

ALRE327 三刃粗皮平底铣刀

ALU-MAX Roughing Flat End Mill 3-Flute 27°



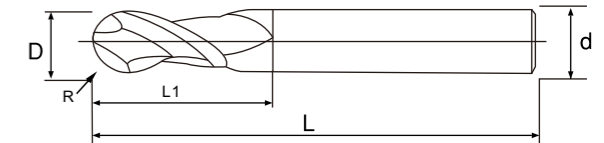
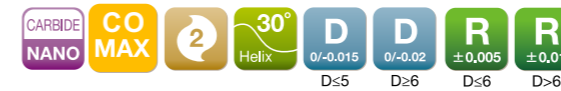
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
ALRE327-040120-050-S04	4		12	50	4	
ALRE327-060150-050-S06	6		16	50	6	
ALRE327-080200-060-S08	8		20	60	8	
ALRE327-100250-075-S10	10		25	75	10	
ALRE327-120300-075-S12	12		30	75	12	
ALRE327-160400-100-S16	16		40	100	16	
ALRE327-200450-100-S20	20		45	100	20	

COB230 二刃球头铣刀DLC coating

CO-MAX Ball End Mill 2-Flute 30°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
COB230-020040-050-S04	1.0	0.5	4	50	4	
COB230-030060-050-S04	1.5	0.75	6	50	4	
COB230-040080-050-S04	2.0	1.0	8	50	4	
COB230-040080-075-S04	2.0	1.0	8	75	4	
COB230-040080-050-S06	2.0	1.0	8	50	6	
COB230-050100-050-S06	2.5	1.25	10	50	6	
COB230-060120-050-S06	3.0	1.5	12	50	6	
COB230-060120-075-S06	3.0	1.5	12	75	6	
COB230-060120-100-S06	3.0	1.5	12	100	6	
COB230-080160-060-S08	4.0	2.0	16	60	8	
COB230-080160-075-S08	4.0	2.0	16	75	8	
COB230-080160-100-S08	4.0	2.0	16	100	8	
COB230-100200-075-S10	5.0	2.5	20	75	10	
COB230-100200-075-S10	5.0	2.5	20	100	10	
COB230-120240-075-S12	6.0	3.0	24	75	12	
COB230-120240-100-S12	6.0	3.0	24	100	12	

加工材料 Work Material													
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM									
S45C	SK-SCM	S304L	Pre Hardened Steel	淬火钢	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木
S55C	SUS	316L	Hardness steel	Cast iron	Titanium Alloy	Heat Resistant Alloy	Copper Alloy	Aluminum Alloy	Resin	Plastics	Glass Fiber	Bakelite	石墨
Carbon Steel	Alloy Steel	Stainless Steel	~50 ~55 ~60 ~62 ~65 HRC										氧化锆
													单晶硅
													陶瓷
													碳纤维

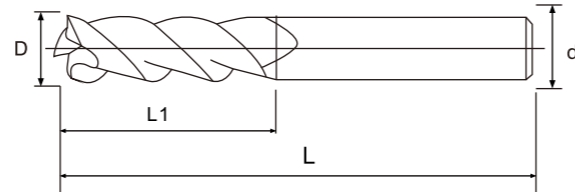
◎最适合Fit best ○适合Fit

加工材料 Work Material													
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM									
S45C	SK-SCM	S304L	Pre Hardened Steel	淬火钢	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木
S55C	SUS	316L	Hardness steel	Cast iron	Titanium Alloy	Heat Resistant Alloy	Copper Alloy	Aluminum Alloy	Resin	Plastics	Glass Fiber	Bakelite	石墨
Carbon Steel	Alloy Steel	Stainless Steel	~50 ~55 ~60 ~62 ~65 HRC										氧化锆
													单晶硅
													陶瓷
													碳纤维

◎最适合Fit best ○适合Fit

COE345三刃平底铣刀DLC coating

CO-MAX Flat End Mill 3-Flute 45°



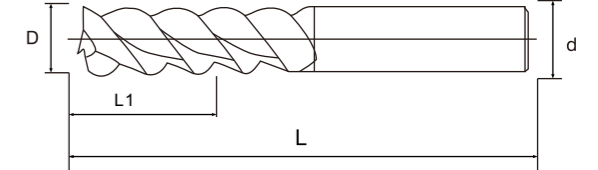
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
COE345-010030-050-S04	1		3	50	4	
COE345-015040-050-S04	1.5		4	50	4	
COE345-020060-050-S04	2		6	50	4	
COE345-025070-050-S04	2.5		7	50	4	
COE345-030090-050-S04	3		9	50	4	
COE345-040120-050-S04	4		12	50	4	
COE345-040120-050-S06	4		12	50	6	
COE345-050130-050-S06	5		13	50	6	
COE345-060150-050-S06	6		15	50	6	
COE345-080200-060-S08	8		20	60	8	
COE345-100250-075-S10	10		25	75	10	
COE345-120300-075-S12	12		30	75	12	
COE345-160450-100-S16	16		45	100	16	
COE345-200500-100-S20	20		50	100	20	

COEL345三刃加长柄平底铣刀DLC coating

CO-MAX Long Flute Flat End Mill 3-Flute 45°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
COEL345-030090-075-S04	3		9	75	4	
COEL345-040120-075-S04	4		12	75	4	
COEL345-050160-075-S06	5		16	75	6	
COEL345-060180-075-S06	6		18	75	6	
COEL345-060180-100-S06	6		18	100	6	
COEL345-080250-075-S08	8		25	75	8	
COEL345-080250-100-S08	8		25	100	8	
COEL345-100300-100-S10	10		30	100	10	
COEL345-120360-100-S12	12		36	100	12	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

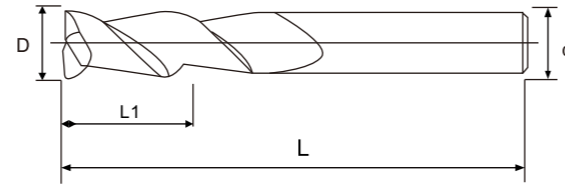
◉最适合Fit best ◊适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◊适合Fit

COE255二刃平底铣刀DLC coating

CO-MAX Flat End Mill 2-Flute 55°



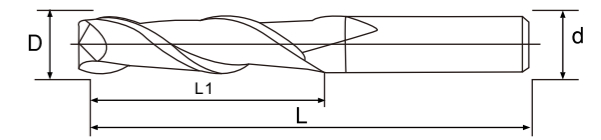
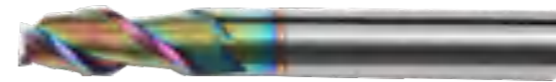
产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
COE255-010030-050-S04	1		3	50	4	
COE255-015040-050-S04	1.5		4	50	4	
COE255-020060-050-S04	2		6	50	4	
COE255-025070-050-S04	2.5		7	50	4	
COE255-030090-050-S04	3		9	50	4	
COE255-040120-050-S04	4		12	50	4	
COE255-040120-050-S06	4		12	50	6	
COE255-050130-050-S06	5		13	50	6	
COE255-060150-050-S06	6		15	50	6	
COE255-080200-060-S08	8		20	60	8	
COE255-100250-075-S10	10		25	75	10	
COE255-120300-075-S12	12		30	75	12	
COE255-160450-100-S16	16		45	100	16	
COE255-200500-100-S20	20		50	100	20	

COEL255二刃加长柄平底铣刀

CO-MAX Long Flute Flat End Mill 2-Flute 55°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
COEL255-030090-075-S04	3		9	75	4	
COEL255-040120-075-S04	4		12	75	4	
COEL255-050160-075-S06	5		16	75	6	
COEL255-060180-075-S06	6		18	75	6	
COEL255-060180-100-S06	6		18	100	6	
COEL255-080250-075-S08	8		25	75	8	
COEL255-080250-100-S08	8		25	100	8	
COEL255-100300-100-S10	10		30	100	10	
COEL255-120360-100-S12	12		36	100	12	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预硬钢 Pre Hardened Steel	NAK/HPM 淬火钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

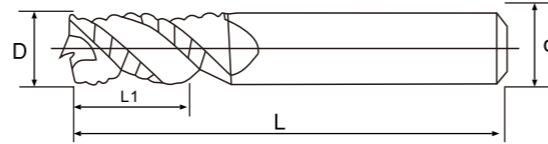
◉最适合Fit best ◉适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预硬钢 Pre Hardened Steel	NAK/HPM 淬火钢	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◉适合Fit

CORE327 三刃粗皮平底铣刀

CO-MAX Roughing Flat End Mill 3-Flute 27°



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.	RMB 单价 List Price
COR327-040120-050-S04	4		12	50	4	
COR327-060160-050-S04	6		16	50	6	
COR327-080200-060-S08	8		20	60	8	
COR327-100250-075-S10	10		25	75	10	
COR327-120300-075-S12	12		30	75	12	
COR327-160400-100-S16	16		40	100	16	
COR327-200450-100-S20	20		45	100	20	

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel	淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel	淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

DMB230二刃球头铣刀

DIA-MAX Ball End Mill 2-Flute 30° / Diamond coated



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	D 刃径 The blade diameter	刃数 The blade number	R 半径 The radius of	I1 刃长 Flute Length	I2 有效长 Effective long	L 全长 O.A.L.	d 柄径 Shank Dia.	价格 The price	库存
DMB230-020020-050-S04	0.2	2	0.1	0.4	2	50	4		
DMB230-030030-050-S04	0.3	2	0.15	0.6	3	50	4		
DMB230-040040-050-S03	0.4	2	0.2	0.8	4	50	3		
DMB230-050050-050-S04	0.5	2	0.25	1	4	50	4		
DMB230-060060-050-S04	0.6	2	0.3	1.2	6	50	4		
DMB230-060010-050-S04	0.6	2	0.3	1.2	10	50	4		
DMB230-080080-050-S04	0.8	2	0.4	2	8	50	4		
DMB230-100060-050-S04	1.0	2	0.5	2	6	50	4		
DMB230-100010-050-S04	1.0	2	0.5	2	10	50	4		
DMB230-100150-050-S04	1.0	2	0.5	2	15	50	4		
DMB230-100010-060-S04	1.0	2	0.5	2	10	60	4		
DMB230-100015-060-S04	1.0	2	0.5	2	15	60	4		
DMB230-100020-060-S04	1.0	2	0.5	2	20	60	4		
DMB230-100010-075-S04	1.0	2	0.5	2	10	75	4		
DMB230-100150-075-S04	1.0	2	0.5	2	15	75	4		
DMB230-150060-050-S04	1.5	2	0.75	3	6	50	4		
DMB230-150010-050-S04	1.5	2	0.75	3	10	50	4		
DMB230-150150-050-S04	1.5	2	0.75	3	15	50	4		
DMB230-150010-060-S04	1.5	2	0.75	3	10	60	4		
DMB230-150150-060-S04	1.5	2	0.75	3	15	60	4		
DMB230-150010-075-S04	1.5	2	0.75	3	10	75	4		
DMB230-150150-075-S04	1.5	2	0.75	3	15	75	4		
DMB230-200060-050-S04	2.0	2	1	4	6	50	4		
DMB230-200040-050-S04	2.0	2	1	4	10	50	4		
DMB230-200150-050-S04	2.0	2	1	4	15	50	4		

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	淬火钢 Hardness steel	~50 HRC ~55 HRC ~60 HRC ~62 HRC ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

DMB230二刃球头铣刀

DIA-MAX Ball End Mill 2-Flute 30° / Diamond coated



产品规格 | SPECIFICATIONS

unit:mm

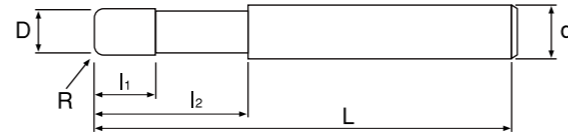
型号 Type No.	D 刃径 The blade diameter	刃数 The blade number	R 半径 The radius of	I1 刃长 Flute Length	I2 有效长 Effective long	L 全长 O.A.L.	d 柄径 Shank Dia.	价格 The price	库存
DMB230-200010-060-S04	2.0	2	1	4	10	60	4		
DMB230-200150-060-S04	2.0	2	1	4	15	60	4		
DMB230-200010-075-S04	2.0	2	1	4	10	75	4		
DMB230-200150-075-S04	2.0	2	1	4	15	75	4		
DMB230-300060-050-S03	3.0	2	1.5	6	6	50	3		
DMB230-300060-060-S03	3.0	2	1.5	6	6	60	3		
DMB230-300060-075-S03	3.0	2	1.5	6	6	75	3		
DMB230-300060-100-S03	3.0	2	1.5	6	6	100	3		
DMB230-400080-050-S04	4.0	2	2	8	8	50	4		
DMB230-400080-060-S04	4.0	2	2	8	8	60	4		
DMB230-400080-075-S04	4.0	2	2	8	8	75	4		
DMB230-400010-100-S04	4.0	2	2	10	10	100	4		
DMB230-600120-060-S06	6.0	2	3	12	12	60	6		
DMB230-600120-075-S06	6.0	2	3	12	12	75	6		
DMB230-600160-100-S06	6.0	2	3	16	16	100	6		
DMB230-600020-150-S06	6.0	2	3	20	20	150	6		
DMB230-800160-075-S08	8.0	2	4	16	16	75	8		
DMB230-800160-100-S08	8.0	2	4	16	16	100	8		
DMB230-800030-150-S08	8.0	2	4	30	30	150	8		
DMB230-100020-100-S10	10.0	2	5	20	20	100	10		
DMB230-100020-110-S10	10.0	2	5	20	20	110	10		
DMB230-100030-150-S10	10.0	2	5	30	30	150	10		
DMB230-120030-100-S12	12.0	2	6	30	30	100	12		
DMB230-120030-150-S12	12.0	2	6	30	30	150	12		

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	淬火钢 Hardness steel	~50 HRC ~55 HRC ~60 HRC ~62 HRC ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◐适合Fit

DMR430 四刃圆鼻铣刀

DIA-MAX Ball End Mill 4-Flute 30°/Diamond coated



产品规格 | SPECIFICATIONS

unit:mm

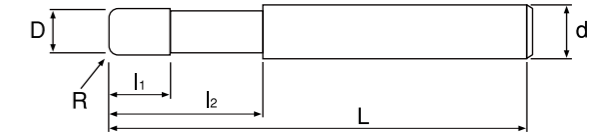
型号 Type No.	D 刃径 The blade diameter	刃数 The blade number	R 半径 The radius of	I1 刃长 Flute Length	I2 有效长 Effective long	L 全长 O.A.L.	d 柄径 Shank Dia.	价格 The price	库存
DMR430-100010-050-S04	1.0	4	0.1	3	10	50	4		
DMR430-100010-060-S04	1.0	4	0.2	3	10	60	4		
DMR430-150070-050-S04	1.5	4	0.1	3	7	50	4		
DMR430-150010-050-S04	1.5	4	0.1	3	10	50	4		
DMR430-150010-060-S04	1.5	4	0.1	3	10	60	4		
DMR430-150010-050-S04	1.5	4	0.2	3	10	50	4		
DMR430-200010-050-S04	2.0	4	0.1	3	10	50	4		
DMR430-200010-060-S04	2.0	4	0.1	6	10	60	4		
DMR430-200010-050-S04	2.0	4	0.2	6	10	50	4		
DMR430-200010-060-S04	2.0	4	0.2	6	10	60	4		
DMR430-200150-075-S04	2.0	4	0.2	6	15	75	4		
DMR430-200010-060-S04	2.0	4	0.3	6	10	60	4		
DMR430-300010-040-S04	3.0	4	0.1	6	10	40	4		
DMR430-300010-050-S04	3.0	4	0.1	6	10	50	4		
DMR430-300010-050-S04	3.0	4	0.2	6	10	50	4		
DMR430-300010-060-S03	3.0	4	0.2	6	10	60	3		
DMR430-300010-075-S03	3.0	4	0.2	10		75	3		
DMR430-300010-100-S03	3.0	4	0.2	10		100	3		
DMR430-300010-060-S03	3.0	4	0.3	10		60	3		
DMR430-300010-060-S03	3.0	4	0.5	10		60	3		
DMR430-300010-075-S03	3.0	4	0.5	10		75	3		
DMR430-300010-100-S03	3.0	4	0.5	10		100	3		

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合Fit best ○适合Fit

DMR430 四刃圆鼻铣刀

DIA-MAX Ball End Mill 4-Flute 30°/Diamond coated



产品规格 | SPECIFICATIONS

unit:mm

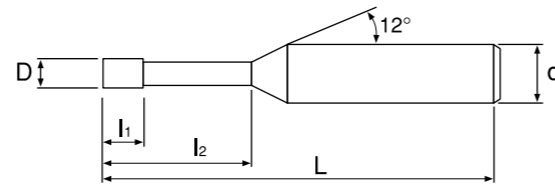
型号 Type No.	D 刃径 The blade diameter	刃数 The blade number	R 半径 The radius of	I1 刃长 Flute Length	I2 有效长 Effective long	L 全长 O.A.L.	d 柄径 Shank Dia.	价格 The price	库存
DMR430-400060-040-S04	4.0	4	0.1	6		50	4		
DMR430-400060-050-S04	4.0	4	0.2	6		50	4		
DMR430-400010-050-S04	4.0	4	0.2	10		50	4		
DMR430-400120-060-S04	4.0	4	0.2	12		60	4		
DMR430-400020-075-S04	4.0	4	0.2	20		75	4		
DMR430-400020-100-S04	4.0	4	0.2	20		100	4		
DMR430-400060-050-S04	4.0	4	0.5	6		50	4		
DMR430-400120-060-S04	4.0	4	0.5	12		60	4		
DMR430-400120-075-S04	4.0	4	0.5	12		75	4		
DMR430-400020-100-S04	4.0	4	0.5	20		100	4		
DMR430-600020-075-S06	6.0	4	0.3	20		75	6		
DMR430-600030-100-S06	6.0	4	0.3	30		100	6		
DMR430-600020-060-S06	6.0	4	0.5	20		60	6		
DMR430-600020-075-S06	6.0	4	0.5	20		75	6		
DMR430-600250-100-S06	6.0	4	0.5	25		100	6		
DMR430-800250-100-S08	8.0	4	0.3	25		75	8		
DMR430-800030-100-S08	8.0	4	0.3	30		100	8		
DMR430-800030-075-S08	8.0	4	0.5	30		75	8		
DMR430-800030-100-S08	8.0	4	0.5	30		100	8		
DMR430-800040-150-S08	8.0	4	0.5	40		150	8		
DMR430-100250-075-S10	10.0	4	0.5	25		75	10		
DMR430-100030-100-S10	10.0	4	0.5	30		100	10		
DMR430-100040-150-S10	10.0	4	0.5	40		150	10		
DMR430-120030-100-S12	12.0	4	0.5	30		100	12		
DMR430-120040-150-S12	12.0	4	0.5	40		150	12		

加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合Fit best ○适合Fit

DME430 四刃平底铣刀

DIA-MAX Rib Flat End Mill 4-Flute 30°/Diamond Coated



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	价格	D 刃径 The blade diameter	刃数 The blade number	I1 刃长 Flute Length	I2 有效长 Effective long	L 全长 O.A.L.	d 柄径 Shank Dia	库存
DME430-100060-050-S04		1.0	4	3	6	50	4	
DME430-100010-050-S04		1.0	4	3	10	50	4	
DME430-100060-060-S04		1.0	4	3	6	60	4	
DME430-100010-060-S04		1.0	4	3	10	60	4	
DME430-100150-060-S04		1.0	4	3	15	60	4	
DME430-100010-075-S04		1.0	4	3	10	75	4	
DME430-100150-075-S04		1.0	4	3	15	75	4	
DME430-150060-050-S04		1.5	4	4.5	6	50	4	
DME430-150010-050-S04		1.5	4	4.5	10	50	4	
DME430-150150-050-S04		1.5	4	4.5	15	50	4	
DME430-150060-060-S04		1.5	4	4.5	6	60	4	
DME430-150010-060-S04		1.5	4	4.5	10	60	4	
DME430-150150-060-S04		1.5	4	4.5	15	60	4	
DME430-150010-075-S04		1.5	4	4.5	10	75	4	
DME430-150150-075-S04		1.5	4	4.5	15	75	4	
DME430-200060-050-S04		2.0	4	6	-	50	4	
DME430-200010-050-S04		2.0	4	6	10	50	4	
DME430-200150-050-S04		2.0	4	6	15	50	4	
DME430-200010-060-S04		2.0	4	6	10	60	4	
DME430-200150-060-S04		2.0	4	6	15	60	4	
DME430-200020-060-S04		2.0	4	6	20	60	4	
DME430-200010-075-S04		2.0	4	6	10	75	4	
DME430-200150-075-S04		2.0	4	6	15	75	4	
DME430-300090-050-S03		3.0	4	9	9	50	3	
DME430-300090-060-S03		3.0	4	9	9	60	3	
DME430-300090-075-S03		3.0	4	9	9	75	3	
DME430-300150-075-S03		3.0	4	15	15	100	3	
DME430-300090-050-S04		3.0	4	9	9	50	4	
DME430-300150-060-S04		3.0	4	9	15	60	4	
DME430-400120-050-S04		4.0	4	12	12	50	4	
DME430-400120-060-S04		4.0	4	12	12	60	4	
DME430-400120-075-S04		4.0	4	12	12	75	4	
DME430-400020-100-S04		4.0	4	20	20	100	4	
DME430-200020-050-S06		6.0	4	20	20	50	6	
DME430-600020-060-S06		6.0	4	20	20	60	6	
DME430-600250-075-S06		6.0	4	25	25	75	6	
DME430-600030-100-S06		6.0	4	30	30	100	6	
DME430-600040-150-S06		6.0	4	40	40	150	6	
DME430-800020-050-S08		8.0	4	20	20	50	8	
DME430-800020-060-S08		8.0	4	20	20	60	8	
DME430-800030-075-S08		8.0	4	30	30	75	8	
DME430-800030-100-S08		8.0	4	30	30	100	8	
DME430-800040-150-S08		8.0	4	40	40	150	8	
DME430-100250-060-S10		10.0	4	25	25	60	10	
DME430-100030-075-S10		10.0	4	30	30	75	10	
DME430-100030-100-S10		10.0	4	30	40	100	10	
DME430-100040-150-S10		10.0	4	40	40	150	10	
DME430-120040-100-S12		12.0	4	40	50	100	12	
DME430-120050-150-S12		12.0	4	50	50	150	12	
DME430-120050-180-S12		12.0	4	50	50	180	12	

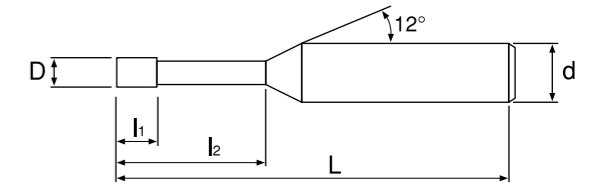
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预硬钢 Pre Hardened Steel 淬火钢 Hardness steel	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◎最适合Fit best ○适合Fit

DME230 二刃平底铣刀

DIA-MAX Flat End Mill 2-Flute 30°/Diamond coated



产品规格 | SPECIFICATIONS

unit:mm

型号 Type No.	价格	D 刃径 The blade diameter	刃数 The blade number	I1 刃长 Flute Length	I2 有效长 Effective long	L 全长 O.A.L.	d 柄径 Shank Dia.	库存
DME230-020020-050-S04		0.2	2	0.4	2	50	4	
DME230-030030-050-S04		0.3	2	0.6	3	50	4	
DME230-040040-050-S04		0.4	2	0.8	4	50	4	
DME230-050060-050-S04		0.5	2	1	6	50	4	
DME230-050010-050-S04		0.5	2	1	10	50	4	
DME230-060060-050-S04		0.6	2	1.2	6	50	4	
DME230-060010-050-S04		0.6	2	1.2	10	50	4	
DME230-080060-050-S04		0.8	2	1.6	6	50	4	
DME230-080010-050-S04		0.8	2	1.6	10	50	4	
DME230-010010-050-S04		1.0	2	3	10	50	4	
DME230-010010-060-S04		1.0	2	3	10	60	4	
DME230-150010-050-S04		1.5	2	4.5	10	50	4	
DME230-150010-060-S04		1.5	2	4.5	10	60	4	
DME230-200010-050-S04		2.0	2	6	10	50	4	
DME230-200010-060-S04		2.0	2	6	10	60	4	

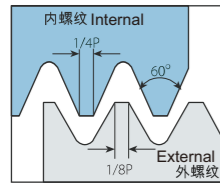
加工材料 Work Material

碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预硬钢 Pre Hardened Steel 淬火钢 Hardness steel	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
---------------------	----------------------	----------------------	--	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◎最适合Fit best ○适合Fit

ISO标准型螺纹 整体合金螺纹铣刀

ISO Metric Full Profile solid carbide thread mill



标准: R262 (DIN 13)
Defined by :R262 (DIN 13)
精度等级: 6g/6H
Tolerance class : 6g/6H



产品规格 | SPECIFICATIONS

unit: mm

螺距 Pitch	粗牙 Coarse	细牙 Fine	内螺纹铣刀 订货号 Internal Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	Le 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
0.4	M2X0.4		KM2X0.4ISO	1.54	4	3	4	50		●	●	●
0.45	M2.5X0.45		KM2.5X0.45ISO	1.96	4	3	5	50		●	●	●
0.5	M3X0.5		KM24X3.0ISO	2.3	4	3	6	52		●	●	●
0.5		M6X0.5	KM6X0.5ISO	4	4	3	10	52		●	●	●
0.5		M10X0.5	KM10X0.5ISO	6	6	3	13	62		●	●	●
0.7	M4X0.7		KM4X0.7ISO	3	4	3	8	52		●	●	●
0.75	M4.5X0.7		KM4.5X0.7ISO	3.4	4	3	9	52		●	●	●
0.75		M12X0.75	KM12X0.75ISO	8	8	3	20	62		●	●	●
0.8	M5X0.8		KM5X0.8ISO	4	4	3	10	52		●	●	●
1.0		M6X1.0	KM6X1.0	4.8	6	3	16	62		●	●	●
1.0		M8X1.0	KM8x1.0ISO	6	6	3	16	62		●	●	●
1.0		M10X1.0	KM10X1.0ISO	8	8	3	20	52		●	●	●
1.0		M12X1.0	KM12X1.0ISO	10	10	4	22	78		●	●	●
1.0		M16X1.0	KM16X1.0ISO	12	12	4	22	78		●	●	●
1.0		M20X1.0	KM20X1.0ISO	16	16	4	30	83		●	●	●
1.25	M8X1.25		KM8X1.25ISO	6	6	3	16	62		●	●	●
1.25		M16X1.25	KM16X1.25ISO	10	10	4	25	78		●	●	●
1.25		M20X1.25	KM20X1.25ISO	12	12	4	25	78		●	●	●
1.5	M10X1.5		KM10X1.5ISO	7.8	8	3	20	62		●	●	●
1.5		M12X1.5	KM12X1.5ISO	10	10	4	28	78		●	●	●
1.5		M16X1.5	KM16X1.5ISO	12	12	4	28	78		●	●	●
1.5		M20X1.5	KM20X1.5ISO	16	16	4	30	83		●	●	●
1.5		M30X1.5	KM30X1.5ISO	20	20	4	30	100		●	●	●
1.75	M12X1.75		KM12X1.75ISO	9.8	10	4	30	78		●	●	●
2.0	M14X2.0		KM14X2.0ISO	11.2	12	4	30	78		●	●	●
2.0		M20X2.0	KM20X2.0ISO	16	16	4	35	83		●	●	●
2.5	M20X2.5		KM20X2.5ISO	16	16	4	35	83		●	●	●
3.0	M24X3.0		KM24X3.0ISO	16	16	4	35	83		●	●	●
3.5	M30X3.5		KM30X3.5ISO	20	20	4	60	90		●	●	●

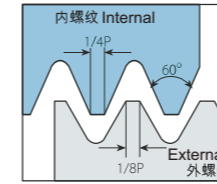
●标准库存 Standard inventory ○订单生产 The order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel ~50 ~55 ~60 ~62 ~65 HRCHRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温 合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程 塑料 Plastics	玻璃 纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合Fit best ○适合Fit

UN-60° 美制统一标准螺纹 整体合金螺纹铣刀

American UN Full Profile solid carbide thread mill



标准: ANSI B 1.1:74
Defined by : ANSI B 1.1:74
精度: 2A/2B
Tolerance class : 2A/2B



产品规格 | SPECIFICATIONS

unit: mm

螺距 Pitch TPI	粗牙 Coarse UNC	细牙 Fine UNF	内螺纹铣刀 订货号 Internal Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	Le 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
14	7/16"X14		KM7/16"X14UN	8	8	3	22	62		●	●	●
13	1/2"X13		KM1/2"X13UN	8	8	3	22	62		●	●	●
12	9/16"X12		KM9/16"X12UN	10	10	3	30	78		●	●	●
11	5/8"X11		KM5/8"X11UN	10	10	3	30	78		●	●	●
10	3/4"X10		KM3/4"X10UN	12	12	4	35	78		●	●	●
9	7/8"X9		KM7/8"X9UN	16	16	5	38	83		●	●	●
8	1"X8		KM1"X8UN	16	16	5	60	110		●	●	●
20		7/16"X20	KM7/16"X20UN	8	8	3	22	62		●	●	●
20		1/2"X20	KM1/2"X20UN	8	8	3	22	62		●	●	●
18		9/16"X18	KM9/16"X18UN	10	10	3	25	78		●	●	●
18		5/8"X18	KM5/8"X18UN	10	10	3	25	78		●	●	●
16		3/8"X16	KM3/8"X16UN	6	6	3	21	62		●	●	●
16		3/4"X16	KM3/4"X16UN	12	12	4	30	78		●	●	●
14		7/8"X14	KM7/8"X14UN	12	12	4	30	78		●	●	●
12		1"X12	KM1"X12UN	16	16	5	40	83		●	●	●
12		1-1/8" X12	KM1-1/8" X12UN	16	16	5	40	83		●	●	●
12		1-1/4"X12	KM1-1/4"X12UN	16	16	5	40	83		●	●	●
12		1-3/8"X12	KM1-3/8"X12UN	16	16	5	40	83		●	●	●
12		1-1/2"X12	KM1-1/2"X12UN	16	16	5	40	83		●	●	●

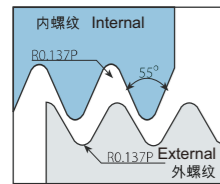
●标准库存 Standard inventory ○订单生产 The order production

加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel ~50 ~55 ~60 ~62 ~65 HRCHRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温 合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程 塑料 Plastics	玻璃 纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合Fit best ○适合Fit

BSP(G)-55° 英制标准管螺纹 整体合金螺纹铣刀

BSP(G)-55° British Standard Pipe Full Profile solid carbide thread mill



标准: B.S.2779:1956
Defined by: B.S.2779:1956
精度: Medium class
Tolerance class: Medium class



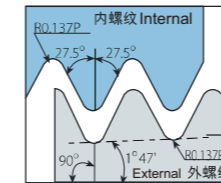
产品规格 | SPECIFICATI OS

螺距 Pitch TPI	Standard	内外螺纹公用 Internal External	订货号 Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	Le 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
28	1/16"X28 1/8"X28		KM1/16"X28BSP(1/8"X28BSP)	6	6	3	12	62		●	●	●
28	1/8"X28		KM1/8"X28	8	8	3	12	62		●	●	●
19	1/4"X19 3/8"X19		KM1/4"X19BSP(3/8"X19BSP)	10	10	4	15	78		●	●	●
19	3/8"X19		KM3/8"X19	14	14	4	22	78		●	●	●
14	1/2"X14 5/8"X14 3/4"X14		KM1/2"X14BSP(5/8"X14BSP/3/4"X14BSP)	16	16	4	30	83		●	●	●
14	7X8		KM7X8BSP	16	16	4	30	90		●	●	●
11	1"X11 1-1/2"X11		KM1"X11BSP(1-1/2"X11BSP)	16	16	4	34	83		●	●	●
11	>1" 1-1/2		KM>1"BSP(1-1/2BSP)	20	20	5	50	110		●	●	●

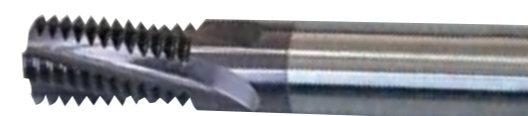
●标准库存 Standard inventory ○订单生产 The order production

BSPT-55° 英制标准锥管螺纹 整体合金螺纹铣刀

BSPT-55° British Standard Pipe Full Profile solid carbide thread mill



标准: B.S.21:1985
Defined by: B.S.21:1985
精度: Standard BSPT
Tolerance class: Standard BSPT



产品规格 | SPECIFICATI OS

螺距 Pitch TPI	Standard	内外螺纹公用 Internal External	订货号 Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	Le 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
28	1/16"X28 1/8"X28		KM1/16"X28BSPT(KM1/8"X28BSPT)	6	6	3	12	62		●	●	●
28	1/8"X28		KM1/8"X28BSPT	8	8	3	12	62		●	●	●
19	1/4"X19 3/8"X19		KM1/4"X19BSPT(KM3/8"X19BSPT)	10	10	4	18	78		●	●	●
19	3/8"X19		KM3/8"X19BSPT	14	14	4	20	78		●	●	●
14	1/2"X14 7/8"X14		KM1/2"X14BSPT(KM7/8"X14BSPT)	16	16	4	24	83		●	●	●
14	3/4"X14 7/8		KM3/4"X14BSPT(KM7/8BSPT)	16	16	4	24	83		●	●	●
11	>1"X11		KM>1"X11BSPT	16	16	4	30	83		●	●	●

●标准库存 Standard inventory ○订单生产 The order production

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

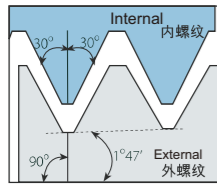
●最适合 Fit best ○适合 Fit

加工材料 Work Material																			
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬硬钢 Hardness steel	~50 ~55 ~60 ~62 ~65	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合 Fit best ○适合 Fit

NPT-60° 美国标准锥管螺纹 整体合金螺纹铣刀

NPT-60° National Pipe Threads solid carbide thread mill

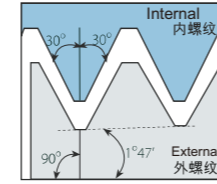


标准: USAS B2.1:1968
Defined by: USAS B2.1:1968
精度: Standard NPT
Tolerance class: Standard NPT

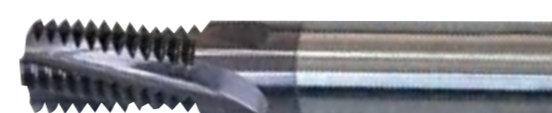


NPTF 美制干密封锥管螺纹 整体合金螺纹铣刀

NPTF National Pipe Threads solid carbide thread mill



标准: ANSI B1.20.3-1976
Defined by: ANSI B1.20.3-1976
精度: Standard NPTF
Tolerance class: Standard NPTF



产品规格 | SPECIFICATIONS

螺距 Pitch TPI	Standard	内外螺纹公用 Internal External Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	Le 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
27	1/16"X27	1/8"X27	6	6	3	12	62		●	●	●
27	1/8"X27		8	8	3	12	62		●	●	●
18	1/4"X18	3/8"X18	10	10	4	20	78		●	●	●
18		3/8"X18	14	14	4	22	78		●	●	●
14	1/2"X14	5/8"X14	16	16	4	25	83		●	●	●
11.5	1"X11	2"X11	16	16	4	30	83		●	●	●
8	2-1/2	3"	13.72	16	4	30	83		●	●	●

●标准库存 Standard inventory ○订单生产 The order production

产品规格 | SPECIFICATIONS

螺距 Pitch TPI	Standard	内外螺纹公用 Internal External Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	Le 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
27	1/16"X27	1/8"X27	6	6	3	12	62		●	●	●
27	1/8"X27		8	8	3	12	62		●	●	●
18	1/4"X18	3/8"X18	10	10	4	20	78		●	●	●
18		3/8"X18	14	14	4	22	78		●	●	●
14	1/2"X14	5/8"X14	16	16	4	25	83		●	●	●
11.5	1"X11	2"X11	16	16	4	30	83		●	●	●
8	NPT2-1/2	NPT3"	13.72	16	4	30	83		●	●	●

●标准库存 Standard inventory ○订单生产 The order production

加工材料 Work Material																				
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	耐热钢 NAK/HPM	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

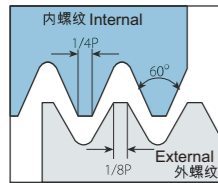
●最适合 Fit best ○适合 Fit

加工材料 Work Material																				
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	淬火钢 Hardness steel	~50 ~55 ~60 ~62 ~65	耐热钢 NAK/HPM	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

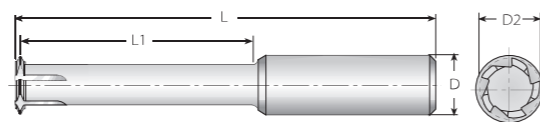
●最适合 Fit best ○适合 Fit

ISO标准型螺纹 整体合金螺纹铣刀

ISO Metric Full Profile solid carbide thread mill

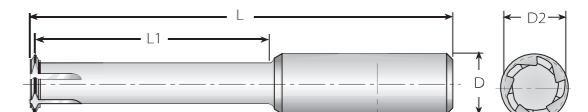
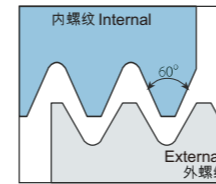


标准: R262 (DIN 13)
Defined by: R262 (DIN 13)
精度等级: 6H
Tolerance class: 6H



60°泛牙型螺纹 整体合金螺纹铣刀

Milling cutter with integral alloy thread for 60° universal thread



产品规格 | SPECIFICATIONS

螺距 Pitch	粗牙 Coarse	内螺纹铣刀 订货号 Internal Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	L1 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
0.2	M0.8X0.2	D1TM0.8X0.2ISO	0.55	4	3	2.8	50		●	●	●
0.25	M1.0X0.25	D1TM1.0X0.25ISO	0.7	4	3	3.1	50		●	●	●
0.25	M1.2X0.25	D1TM1.2X0.25ISO	0.9	4	3	3.8	50		●	●	●
0.3	M1.4X0.3	D1TM1.4X0.3ISO	1.05	4	3	4.4	50		●	●	●
0.35	M1.6X0.35	D1TM1.6X0.35ISO	1.2	4	3	5.0	50		●	●	●
0.35	M1.8X0.35	D1TM1.8X0.35ISO	1.4	4	3	5.6	50		●	●	●
0.4	M2.0X0.4	D1TM2.0X0.4ISO	1.5	4	3	6.2	50		●	●	●
0.45	M2.5X0.45	D1TM2.5X0.45ISO	1.95	4	3	7.7	50		●	●	●
0.5	M3X0.5	D1TM3X0.5ISO	2.4	4	3	9	50		●	●	●
0.6	M3.5X0.6	D1TM3.5X0.6ISO	2.75	4	3	10	50		●	●	●
0.7	M4X0.7	D1TM4X0.7ISO	3.15	4	3	12	50		●	●	●
0.8	M5X0.8	D1TM5X0.8ISO	4	4	3	15	50		●	●	●
1.0	M6X1.0	D1TM6X1.0ISO	4.8	6	3	19	50		●	●	●
1.25	M8X1.25	D1TM8X1.25ISO	6	6	3	26	50		●	●	●
1.5	M10X1.5	D1TM10X1.5ISO	8	8	3	32	60		●	●	●
1.5	M12X1.5	D1TM12X1.5ISO	9.4	10	4	38	75		●	●	●
1.75	M12X1.75	D1TM12X1.75ISO	9.4	10	4	38	75		●	●	●
2.0	M14X2.0	D1TM14X2.0ISO	10.2	12	4	44	75		●	●	●
2.0	M16X2.0	D1TM16X2.0ISO	13	14	4	48	80		●	●	●
2.5	M18X2.5	D1TM18X2.5ISO	14.5	16	4	60	90		●	●	●
2.5	M20X2.5	D1TM20X2.5ISO	16	16	5	60	90		●	●	●

●标准库存 Standard inventory ○订单生产 The order production

产品规格 | SPECIFICATIONS

螺距 Pitch	内螺纹铣刀 订货号 Internal Type No	D 刃径 diameter	D2 柄径 Shank dia	Z 槽数 NO. of Flutes	Le 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
0.5-0.8	DIT0.5-0.8 60°	3.9	4	3	16	50		●	●	●
0.5-1.0	DIT0.5-1.0 60°	4.85	6	3	20	50		●	●	●
0.5-1.25	DIT0.5-1.25 60°	5.9	6	3	25	50		●	●	●
1.0-1.5	DIT1.0-1.5 60°	7.9	8	3	28	60		●	●	●
1.0-1.75	DIT1.0-1.75 60°	9.9	10	4	38	75		●	●	●
1.0-2.0	DIT1.0-2.0 60°	11.9	12	4	40	75		●	●	●
2.0-3.0	DIT2.0-3.0 60°	14	14	4	48	80		●	●	●
2.0-3.5	DIT2.0-3.5 60°	16	16	5	50	90		●	●	●

●标准库存 Standard inventory ○订单生产 The order production

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火热钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

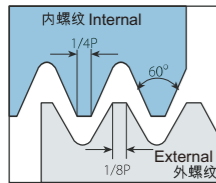
●最适合Fit best ○适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM 淬火热钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

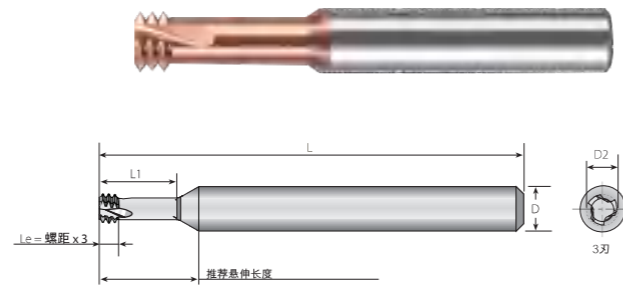
●最适合Fit best ○适合Fit

ISO标准型螺纹 整体合金螺纹铣刀

ISO Metric Full Profile solid carbide thread mill



标准: R262 (DIN 13)
Defined by :R262 (DIN 13)
精度等级:6H
Tolerance class : 6H



产品规格 | SPECIFICATION

螺距 Pitch	粗牙 Coarse	内螺纹铣刀 订货号 Internal Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	L1 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
0.25	M1.0X0.25	D3TM1.0X0.25	0.73	4	3	2.3	50		●	●	●
0.25	M1.2X0.25	D3TM1.2X0.25	0.92	4	3	2.8	50		●	●	●
0.3	M1.4X0.3	D3TM1.4X0.3	1.05	4	3	3.2	50		●	●	●
0.35	M1.6X0.35	D3TM1.6X0.35	1.2	4	3	3.3	50		●	●	●
0.35	M1.8X0.35	D3TM1.8X0.35	1.41	4	3	4.1	50		●	●	●
0.4	M2.0X0.4	D3TM2.0X0.4	1.54	4	3	4.4	50		●	●	●
0.45	M2.2X0.45	D3TM2.2X0.45	1.63	4	3	4.8	50		●	●	●
0.45	M2.5X0.45	D3TM2.5X0.45	1.96	4	3	5.3	50		●	●	●
0.5	M3X0.5	D3TM3X0.5	2.4	4	3	6.4	50		●	●	●
0.5	M4X0.5	D3TM4X0.5	3	4	3	8.6	50		●	●	●
0.5	M8X0.5	D3TM8X0.5	6	6	3	17.3	50		●	●	●
0.5	M10X0.5	D3TM10X0.5	8	8	3	21.8	60		●	●	●
0.6	M3.5X0.6	D3TM3.5X0.6	2.75	4	3	7.4	50		●	●	●
0.7	M4X0.7	D3TM4X0.7	3.15	4	3	8.6	50		●	●	●
0.75	M4.5X0.75	D3TM4.5X0.75	3.5	4	3	9.5	50		●	●	●
0.75	M6X0.75	D3TM6X0.75	4.8	6	3	13	50		●	●	●
0.75	M8X0.75	D3TM8X0.75	6	6	3	17.3	50		●	●	●
0.75	M10X0.75	D3TM10X0.75	8	8	3	21.8	60		●	●	●
0.8	M5X0.8	D3TM5X0.8	4	4	3	12	50		●	●	●
1.0	M6X1.0	D3TM6X1.0	4.75	6	3	13	50		●	●	●
1.0	M8X1.0	D3TM8X1.0	6	6	3	17.3	50		●	●	●
1.0	M10X1.0	D3TM10X1.0	8	8	3	21.8	60		●	●	●
1.0	M12X1.0	D3TM12X1.0	10	10	4	25	75		●	●	●
1.0	M14X1.0	D3TM14X1.0	10	10	4	28	75		●	●	●
1.0	M16X1.0	D3TM16X1.0	12	12	4	30	75		●	●	●
1.0	M20X1.0	D3TM20X1.0	15.8	16	4	40	90		●	●	●
1.25	M8X1.25	D3TM8X1.25	6	6	3	17.3	50		●	●	●
1.25	M10X1.25	D3TM10X1.25	8	8	3	21.8	60		●	●	●
1.25	M12X1.25	D3TM12X1.25	10	10	4	25	75		●	●	●
1.25	M14X1.25	D3TM14X1.25	10	10	4	28	75		●	●	●
1.25	M16X1.25	D3TM16X1.25	12	12	4	30	75		●	●	●
1.5	M10X1.5	D3TM10X1.5	8	8	3	21.8	60		●	●	●
1.5	M12X1.5	D3TM12X1.5	10	10	4	25	75		●	●	●
1.5	M14X1.5	D3TM14X1.5	10	10	4	28	75		●	●	●
1.5	M16X1.5	D3TM16X1.5	12	12	4	30	75		●	●	●
1.5	M20X1.5	D3TM20X1.5	15.8	16	4	40	90		●	●	●
1.75	M12X1.75	D3TM12X1.75	10	10	4	24	75		●	●	●
2.0	M14X2.0	D3TM14X2.0	10	10	4	25	75		●	●	●
2.0	M16X2.0	D3TM16X2.0	11.5	12	4	27	75		●	●	●
2.0	M20X2.0	D3TM20X2.0	15.8	16	4	40	90		●	●	●
2.5	M20X2.5	D3TM20X2.5	15	16	4	36	90		●	●	●
3.0	M24X3.0	D3TM24X3.0	16	16	4	45	90		●	●	●

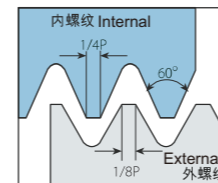
●标准库存 Standard inventory ○订单生产 The order production

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel	淬硬钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

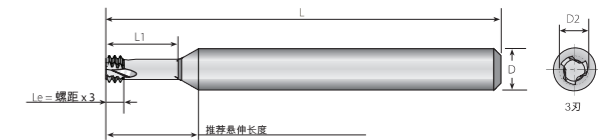
●最适合 Fit best ○适合 Fit

UN-60° 美制统一标准螺纹 整体合金螺纹铣刀

American UN Full Profile solid carbide thread mill



标准: ANSI B 1.1:74
Defined by : ANSI B 1.1:74
精度: 2B
Tolerance class : 2B



产品规格 | SPECIFICATION

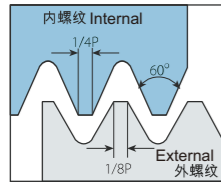
螺距 Pitch	粗牙 Coarse	细牙 Fine	内螺纹铣刀 订货号 Internal Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	L1 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
80		NO.0-80	D3TNO.0-80 60°	1.15	4	3	3.5	50		●	●	●
72		NO.1-72	D3TNO.1-72 60°	1.45	4	3	3.9	50		●	●	●
64	NO.1-64	NO.2-64	D3TNO.2-64 60° (D3TNO.1-64 60°)	1.4	4	3	4.2	50		●	●	●
56	NO.2-56	NO.3-56	D3TNO.3-56 60° (D3TNO.2-56 60°)	1.65	4	3	5.0	50		●	●	●
48	NO.3-48	NO.4-48	D3TNO.4-48 60° (D3TNO.3-48 60°)	1.9	4	3	6.0	50		●	●	●
40	NO.4,NO.5-40	NO.6-40	D3TNO.6-40 60° (D3TNO.4,NO.5-40 60°)	2.1	4	3	6.0	50		●	●	●
40	NO.5-40	NO.6-40	D3TNO.6-40 60° (D3TNO.5-40 60°)	2.45	4	3	7.2	50		●	●	●
36		NO.8-36	D3TNO.8-36 60°	3.3	4	3	8.7	50		●	●	●
32	NO.6,NO.8-32	NO.10-32	D3TNO.10-32 60° (D3TNO.6,NO.8-32 60°)	2.55	4	3	7.4	50		●	●	●
32	NO.8-32	NO.10-32	D3TNO.10-32 60° (D3TNO.8-32 60°)	3.2	4	3	10.0	50		●	●	●
32		NO.10-32	D3TNO.10-32 60°	3.8	4	3	10.3	50		●	●	●
28		1/4-28	D3T1/4-28 60°	5.25	6	3	13.2	50		●	●	●
24	NO.10-24	5/16-24	D3T5/16-24 60° (D3TNO.10-24 60°)	3.58	4	3	10.2	50		●	●	●
24		5/16-24	D3T5/16-24 60°	6.68	8	3	16.5	60		●	●	●
20	1/4-20	7/16-20	D3T7/16-20 60° (D3T1/4-20 60°)	4.88	6	3	13.4	50		●	●	●
20		7/16-20	D3T7/16-20 60°	9.55	10	4	23	75		●	●	●
18	5/16-18		D3T5/16-18 60°	6.15	8	3	16.9	60		●	●	●
16	3/8-16		D3T3/8-16 60°	6.7	8	3	19.1	60		●	●	●
14	7/16-14		D3T7/16-14 60°	9.0	10	4	23.3	75		●	●	●

●标准库存 Standard inventory ○订单生产 The order production

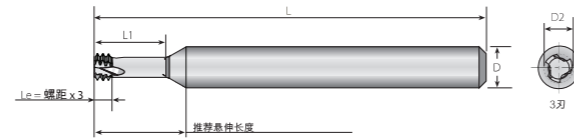
加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel	淬硬钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合 Fit best ○适合 Fit

UN-60° 美制统一标准螺纹整体合金螺纹铣刀 American UN Full Profile solid carbide thread mill



标准: ANSI B 1.1:74
Defined by: ANSI B 1.1:74
精度: 2B
Tolerance class: 2B



产品规格 | SPECIFICATIONS

螺距 Pitch TPI	粗牙 Coarse UNC	细牙 Fine UNF	内螺纹铣刀 订货号 Internal Type No	D2 刃径 diameter	D 柄径 Shank dia	Z 槽数 NO. of Flutes	L1 刃长 Flute length	L 全长 O. A. L	价格 The price	KVX	KW20	库存 STOCK
80		NO.0-80	D3TNO.0-80 60°	1.15	4	3	3.5	50		●	●	●
72		NO.1-72	D3TNO.1-72 60°	1.45	4	3	3.9	50		●	●	●
64	NO.1-64	NO.2-64	D3TNO.2-64 60° (D3TNO.1-64 60°)	1.4	4	3	4.2	50		●	●	●
56	NO.2-56	NO.3-56	D3TNO.3-56 60° (D3TNO.2-56 60°)	1.65	4	3	5.0	50		●	●	●
48	NO.3-48	NO.4-48	D3TNO.4-48 60° (D3TNO.3-48 60°)	1.9	4	3	6.0	50		●	●	●
40	NO.4,NO.5-40	NO.6-40	D3TNO.6-40 60° (D3TNO.4,NO.5-40 60°)	2.1	4	3	6.0	50		●	●	●
40	NO.5-40	NO.6-40	D3TNO.6-40 60° (D3TNO.5-40 60°)	2.45	4	3	7.2	50		●	●	●
36		NO.8-36	D3TNO.8-36 60°	3.3	4	3	8.7	50		●	●	●
32	NO.6,NO.8-32	NO.10-32	D3TNO.10-32 60°(D3TNO.6,NO.8-32 60°)	2.55	4	3	7.4	50		●	●	●
32	NO.8-32	NO.10-32	D3TNO.10-32 60° (D3TNO.8-32 60°)	3.2	4	3	10.0	50		●	●	●
32		NO.10-32	D3TNO.10-32 60°	3.8	4	3	10.3	50		●	●	●
28		1/4-28	D3T1/4-28 60°	5.25	6	3	13.2	50		●	●	●
24	NO.10-24	5/16-24	D3T5/16-24 60° (D3TNO.10-24 60°)	3.58	4	3	10.2	50		●	●	●
24		5/16-24	D3T5/16-24 60°	6.68	8	3	16.5	60		●	●	●
20	1/4-20	7/16-20	D3T7/16-20 60° (D3T1/4-20 60°)	4.88	6	3	13.4	50		●	●	●
20		7/16-20	D3T7/16-20 60°	9.55	10	4	23	75		●	●	●
18		5/16-18	D3T5/16-18 60°	6.15	8	3	16.9	60		●	●	●
16		3/8-16	D3T3/8-16 60°	6.7	8	3	19.1	60		●	●	●
14		7/16-14	D3T7/16-14 60°	9.0	10	4	23.3	75		●	●	●

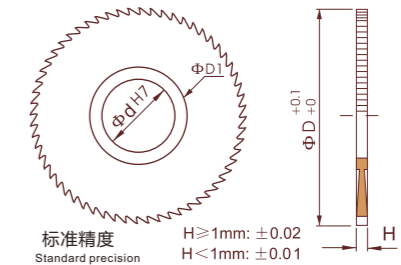
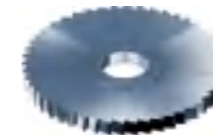
●标准库存 Standard inventory ○订单生产 The order production

A型齿整体硬质合金锯刀铣刀 A-tooth type Tungsten Carbide Circular Saws



切槽
grooving

切断
Cut off the



标准精度
Standard precision

H ≥ 1mm: ±0.02
H < 1mm: ±0.01

产品规格 | SPECIFICATIONS

代码 code	D 外径 Outer diameter mm	H 厚度 The thickness of the mm	T 常用齿数 Commonly used teeth	齿型 T-type	d 内孔 Inner hole mm	RMB 单价 List Price
KAA	12	0.15-3.0	32,24,20,16	A-type	4	
	16	0.15-3.0	40,32,24,20		5	
	20	0.15-3.0	48,40,32,24		6	
	25	0.20-3.0	64,48,40,32		8	
	32	0.20-4.0	80,64,48,40,32		8	
	40	0.20-6.0	100,80,64,48,40		10	
	45	0.20-6.0	100,80,64,48,40		12.7.13	
	50	0.20-6.0	100,80,64,48,40		13	
	63	0.20-6.0	120,100,80,64,48		16	
	70	0.20-6.0	120,100,80,64,48		12.7	
	75	0.30-8.0	120,100,80,64,48		22.25.4	
	80	0.50-8.0	120,100,80,64,48		22.25.4	
	100	0.60-8.0	120,100,80,64		22.25.4	
	125	1.00-8.0	160,120,100,80		22.25.4	
	160	1.50-8.0	160,120,100,80		17.25.4	
	200	2.00-8.0	200,160,120,100		32.31.75	

unit:mm

加工材料 Work Material																
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel 淬火钢 Hardness steel	NAK/HPM 钛合金 Cast Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合Fit best ○适合Fit

加工材料 Work Material																
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel 淬火钢 Hardness steel	NAK/HPM 钛合金 Cast Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合Fit best ○适合Fit

S型齿整体硬质合金锯刀铣刀

S-type solid carbide saw cutter and milling cutter



整体硬质合金三面刃铣刀

Solid carbide side milling cutter



产品规格 | SPECIFICATIONS

代码 code	D 外径 Outer diameter mm	H 厚度 The thickness of the mm	T 常用齿数 Commonly used teeth	齿型 T- type	d 内孔 Inner hole mm	RMB 单价 List Price
KAA	12	0.15-3.0	16.12	S-type	4	
	16	0.15-3.0	20.16		5	
	20	0.30-3.0	40.32.24.20		6	
	25	0.30-3.0	32.24.20		8	
	32	0.30-4.0	48.40.32.24		8	
	40	0.30-6.0	56.48.40.32.24		10	
	45	0.30-6.0	56.48.40.32.24		12.7.13	
	50	0.30-6.0	64.56.48.40.32		13	
	63	0.30-6.0	100.80.64.48.40		16	
	70	0.30-6.0	100.80.64.48.40		12.7	
	75	0.50-8.0	100.80.64.48.40		22.25.4	
	80	0.50-8.0	100.80.64.48.40		22.25.4	
	100	0.80-8.0	120.100.80.64.48		22.25.4	
	125	1.00-8.0	160.120.100.80.64		22.25.4	
	160	1.50-8.0	160.120.100.80		27.25.4	
	200	2.00-8.0	180.160.120.100		32.31.75	

产品规格 | SPECIFICATIONS

代码 code	D 外径 Outer diameter mm	H 厚度 The thickness of the mm	T 常用齿数 Commonly used teeth	齿型 T- type	d 内孔 Inner hole mm	RMB 单价 List Price
KAB	32	2.0-6.0	32.24.20.16	A-type	8	
	40	2.0-6.0	40.32.24.20		10	
	45	2.0-6.0	40.32.24.20		12.7.13	
	50	2.0-6.0	48.40.32.24		13	
	63	2.0-8.0	56.48.40.32.24		16	
	70	2.0-8.0	56.48.40.32.24		12.7	
	75	2.0-8.0	56.48.40.32.24		22.25.4	
	80	2.0-8.0	64.56.48.40.32.24		22.25.4	
	100	2.0-8.0	80.64.48.40.32		22.25.4	
	125	2.0-8.0	80.64.48.40		22.25.4	
	160	2.0-8.0	80.64.48.40		27.25.4	
	200	2.0-8.0	100.80.64.48		32.31.75	

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

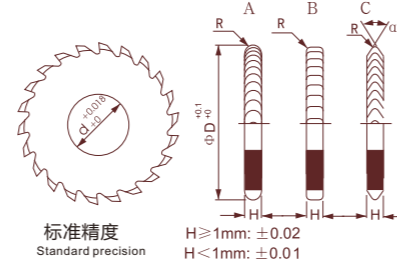
◉最适合Fit best ◉适合Fit

加工材料 Work Material																		
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 Pre Hardened Steel	NAK/HPM Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

◉最适合Fit best ◉适合Fit

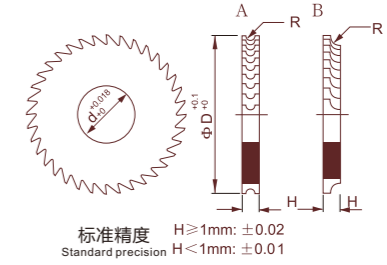
整体硬质合金凸半圆锯片铣刀

Solid carbide convex semicircle saw blade milling cutter



整体硬质合金凹半圆铣刀

Solid carbide concave semicircle milling cutter



产品规格 | SPECIFICATIONS

代码 code	D 外径 Outer diameter mm	H 厚度 The thickness of the mm	T 常用齿数 Commonly used teeth	齿型 T-type	d 内孔 Inner hole mm	RMB 单价 List Price
KAC	12	1.0-3.0	6.4	A-type	4	
	16	1.0-3.0	8.6		5	
	20	1.0-3.0	12.8		6	
	25	1.0-3.0	20.16		8	
	32	1.0-4.0	24.20.16		8	
	40	1.0-6.0	32.28.24.20		10	
	45	1.0-6.0	32.28.24.20		12.7.13	
	50	1.0-6.0	32.28.24.20		13	
	63	1.0-6.0	40.36.32.28.24.20		16	
	70	1.0-6.0	40.36.32.28.24.20		12.7	
	75	1.0-8.0	40.36.32.28.24.20		22.25.4	
	80	1.5-8.0	40.36.32.28.24.20		22.25.4	
	100	1.5-8.0	48.40.36.32.28.24		22.25.4	
	125	2.0-8.0	56.48.40.36.32.28		22.25.4	
	160	2.0-8.0	64.56.48.40.36.32		27.25.4	
200	2.0-8.0	80.64.56.48.40.36	32.31.75			

产品规格 | SPECIFICATIONS

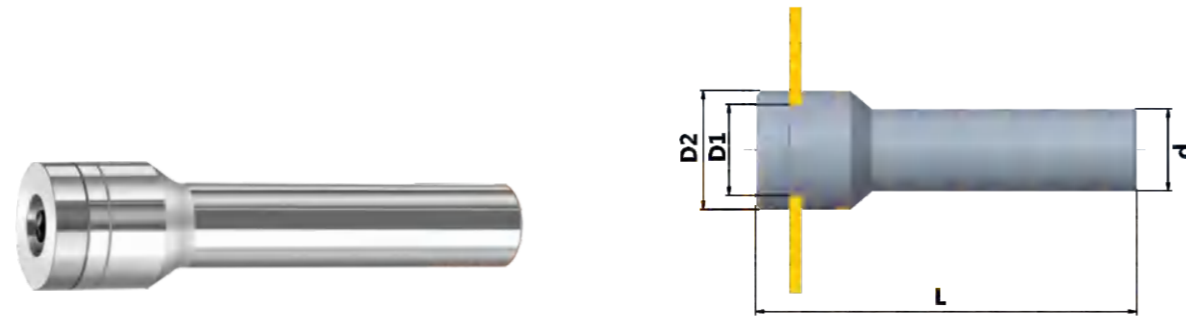
代码 code	D 外径 Outer diameter mm	H 厚度 The thickness of the mm	T 常用齿数 Commonly used teeth	齿型 T-type	d 内孔 Inner hole mm	RMB 单价 List Price
KAD	12	1.0-3.0	4	A-type	4	
	16	1.0-3.0	6		5	
	20	1.0-3.0	12.8		6	
	25	1.0-3.0	16.12		8	
	32	1.0-4.0	24.20.16		8	
	40	1.0-6.0	32.28.24.20		10	
	45	1.0-6.0	32.28.24.20		12.7.13	
	50	1.0-6.0	32.28.24.20		13.16	
	63	1.0-6.0	40.36.32.28.24.20		12.7	
	70	1.0-6.0	40.36.32.28.24.20		22.25.4	
	75	1.0-8.0	40.36.32.28.24.20		22.25.4	
	80	1.5-8.0	40.36.32.28.24.20		22.25.4	
	100	2.0-8.0	48.40.36.32.28.24		22.25.4	
	125	2.0-8.0	56.48.40.36.32.28		27.25.7	
	160	2.0-8.0	64.56.48.40.36.32		32.31.75	
200	2.0-8.0	80.64.56.48.40.36	32.31.75			

加工材料 Work Material																		
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木	石墨	氧化锆	单晶硅	陶瓷	碳纤维
S45C	SK-SCM	S304L	Pre Hardened Steel	淬火钢														
S55C	SUS	316L	Hardness steel	Cast	Titanium	Heat Resistant	Copper	Aluminum	Resin	Plastics	Glass	Bakelite	Graphite	Zirconium oxide	Silicon	Ceramic	Carbon	Fiber
Carbon Steel	Alloy Steel	Stainless Steel	~50 HRC	~55 HRC	~60 HRC	~65 HRC	Alloy	Alloy	Alloy	Resin	Plastics	Fiber	Bakelite	Graphite	Zirconium oxide	Silicon	Ceramic	Carbon Fiber

加工材料 Work Material																		
碳素钢	合金钢	不锈钢	预热钢	NAK/HPM	铸铁	钛合金	高温合金	铜合金	铝合金	树脂	工程塑料	玻璃纤维	电木	石墨	氧化锆	单晶硅	陶瓷	碳纤维
S45C	SK-SCM	S304L	Pre Hardened Steel	淬火钢														
S55C	SUS	316L	Hardness steel	Cast	Titanium	Heat Resistant	Copper	Aluminum	Resin	Plastics	Glass	Bakelite	Graphite	Zirconium oxide	Silicon	Ceramic	Carbon	Fiber
Carbon Steel	Alloy Steel	Stainless Steel	~50 HRC	~55 HRC	~60 HRC	~65 HRC	Alloy	Alloy	Alloy	Resin	Plastics	Fiber	Bakelite	Graphite	Zirconium oxide	Silicon	Ceramic	Carbon Fiber

锯片刀杆柄

Saw blade shank



型号 model	D1 锯片内孔 Saw blade inner hole	D2 刀头直径 Diameter of the cutting tools	d 刀柄直径 The handle diameter	L 刀杆总长 Tool rod length	库存 STOCK
D4-D8-D8-L50	4	8	8	50	●
D4-D8-D8-L60	4	8	8	60	●
D4-D8-D8-L80	4	8	8	80	●
D5-D10-D10-L68	5	10	10	68	●
D6-D10-D10-L68	6	10	10	68	●
D8-D12-D12-L68	8	12	12	68	●
D10-D15-D10-L68	10	15	10	68	●
D13-D18-D12-L68	13	18	12	68	●
D13-D18-D12-L68	13	18	12	68	●
D13-D18-D12-L92	13	18	12	92	●
D13-D18-D10-L92	13	18	10	92	●
D16-D22-D16-L75	16	22	16	75	●
D16-D22-D16-L140	16	22	16	140	●
D16-D22-D16-L180	16	22	16	180	●
D22-D28-D16-L88	22	28	16	88	●
D22-D28-D16-L130	22	28	16	130	●
D27-D32-D20-L85	27	32	20	85	●
D27-D32-D20-L220	27	32	20	220	●
D27-D32-D20-L85	27	32	20	85	●
D27-D32-D20-L180	27	32	20	180	●

●标准库存 Standard inventory ○订单生产 The order production

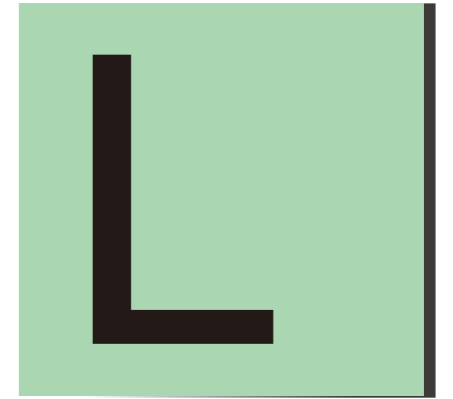
加工材料 Work Material																	
碳素钢 S45C S55C	合金钢 SK-SCM SUS	不锈钢 S304L 316L	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合 Fit best ○适合 Fit

合金钻头

Alloy bit

L1~L44

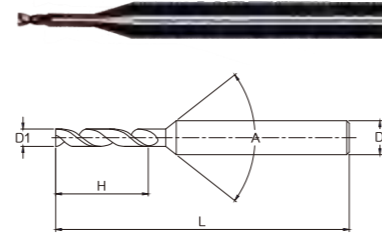


平底钻系列	L01-L04	高性能合金钻 (定柄)	L30-L39
Flat drills	CFD-硬质合金平底钻系列 .....P CFD-Carbide flat drills	High performance drills (end mill shank)	CCD- 高性能合金钻头 3D .....P CCD-High performance drills 3D CCD- 高性能合金钻头 5D .....P CCD-High performance drills 5D HKD- 高性能内冷合金钻头 3D .....P HKD-High performance drills with oil hole 3D HKD- 高性能内冷合金钻头 5D .....P HKD-High performance drills with oil hole 5D HKD-高性能内冷合金钻头 8D .....P HKD-High performance drills with oil hole 8D
微钻系列	L05-L29	普通直柄合金钻	L40-L43
Micro drills	CPD- 普通微型钻头 .....P CPD- General purpose micro drills CPDL- 普通加长微型钻头 .....P CPDL- General purpose long flute micro drills CDD- DLC涂层微型钻头 .....P CDD- DLC Coating micro drills CDDL- DLC涂层加长微型钻头.....P CDDL- DLC Coating long flute micro drills CHD- 多功能微型钻头.....P CHD-Multi-function micro drills CHDL 多功能加长微型钻头 .....P CHDL-Multi-function long flute micro drills CXD- 左旋微型钻头 .....P CXD- Left rotation micro drills CHXD- 涂层左旋微型钻头 .....P CHXD- Coating Left rotation micro drills	General drills (straight shank) CD- 普通直柄合金钻头.....P CD- General Carbide drills HD- 涂层直柄合金钻头 .....P HD- Coating Carbide drills	
		定点钻	L43-L45
		Spotting drills	CHSD- 多功能定点钻头 .....P CHSD-Multi-function spotting drills CHXD- 涂层左旋定点钻头 .....P CHSXD- Coating Left rotation spotting micro drills
		中心钻	L46
		Center drills	CND- 合金中心钻头.....P CND-Carbide center drills

CFD-CARBIDE FLAT DRILLS CFD系列-硬质合金平底钻头



- 直径范围 Tool dia: D0.50-D12.0mm
- 直径公差 Dia tolerance: D≤3.00 0,-0.005mm
D>3.00 0,-0.01mm
- 对斜面钻孔一次性加工 Counter boring and guide hole cutting with a single end mill
- 无毛刺加工 Reduces burrs at hole exits
- 缩短工艺流程 钻尖角180° Applicable to various types or drilling thanks to a point angle of 180°



加工材料 Work Material																			
碳素钢 S45C	合金钢 SK-SCM	预热钢 NAK HPM	淬火钢 Hardness steel			铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
Carbon Steel	SUS Alloy Steel	Pre-Hardened Steel	~55 HRC	~60 HRC	~70 HRC														

○最适合 ○适合

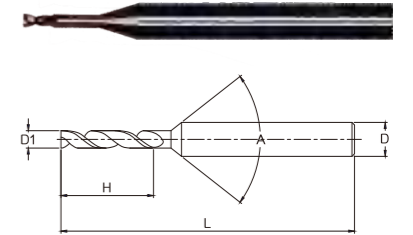
单位(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CFD-0500	○	0.50	2.5	3	38	
CFD-0510	○	0.51	2.5	3	38	
CFD-0520	○	0.52	2.5	3	38	
CFD-0530	○	0.53	2.5	3	38	
CFD-0540	○	0.54	2.5	3	38	
CFD-0550	○	0.55	2.5	3	38	
CFD-0560	○	0.56	2.5	3	38	
CFD-0570	○	0.57	2.5	3	38	
CFD-0580	○	0.58	2.5	3	38	
CFD-0590	○	0.59	2.5	3	38	
CFD-0600	○	0.60	2.5	3	38	
CFD-0610	○	0.61	2.5	3	38	
CFD-0620	○	0.62	2.5	3	38	
CFD-0630	○	0.63	2.5	3	38	
CFD-0640	○	0.64	2.5	3	38	
CFD-0650	○	0.65	2.5	3	38	
CFD-0660	○	0.66	2.5	3	38	
CFD-0670	○	0.67	2.5	3	38	
CFD-0680	○	0.68	2.5	3	38	
CFD-0690	○	0.69	2.5	3	38	
CFD-0700	○	0.70	3.0	3	38	
CFD-0710	○	0.71	3.0	3	38	
CFD-0720	○	0.72	3.0	3	38	
CFD-0730	○	0.73	3.0	3	38	
CFD-0740	○	0.74	3.0	3	38	
CFD-0750	○	0.75	3.0	3	38	
CFD-0760	○	0.76	3.0	3	38	
CFD-0770	○	0.77	3.0	3	38	
CFD-0780	○	0.78	3.0	3	38	
CFD-0790	○	0.79	3.0	3	38	
CFD-0800	○	0.80	3.0	3	38	
CFD-0810	○	0.81	3.0	3	38	
CFD-0820	○	0.82	3.0	3	38	
CFD-0830	○	0.83	3.0	3	38	
CFD-0840	○	0.84	3.0	3	38	
CFD-0850	○	0.85	3.0	3	38	
CFD-0860	○	0.86	3.0	3	38	
CFD-0870	○	0.87	3.0	3	38	
CFD-0880	○	0.88	3.0	3	38	
CFD-0890	○	0.89	3.0	3	38	
CFD-0900	○	0.90	3.0	3	38	
CFD-0910	○	0.91	3.0	3	38	
CFD-0920	○	0.92	3.0	3	38	
CFD-0930	○	0.93	3.0	3	38	
CFD-0940	○	0.94	3.0	3	38	
CFD-0950	○	0.95	3.0	3	38	
CFD-0960	○	0.96	3.0	3	38	

●标准库存 ○订单生产

CFD-CARBIDE FLAT DRILLS CFD系列-硬质合金平底钻头



- 直径范围 Tool dia: D0.50-D12.0mm
- 直径公差 Dia tolerance: D≤3.00 0,-0.005mm
D>3.00 0,-0.01mm
- 对斜面钻孔一次性加工 Counter boring and guide hole cutting with a single end mill
- 无毛刺加工 Reduces burrs at hole exits
- 缩短工艺流程 钻尖角180° Applicable to various types or drilling thanks to a point angle of 180°



加工材料 Work Material																			
碳素钢 S45C	合金钢 SK-SCM	预热钢 NAK HPM	淬火钢 Hardness steel			铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
Carbon Steel	SUS Alloy Steel	Pre-Hardened Steel	~55 HRC	~60 HRC	~70 HRC														

○最适合 ○适合

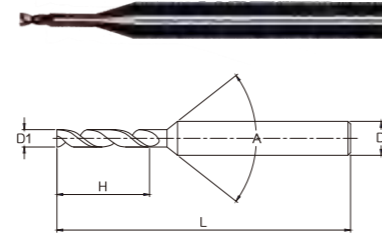
单位(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CFD-1440	○	1.44	4.5	3	38	
CFD-1450	○	1.45	4.5	3	38	
CFD-1460	○	1.46	4.5	3	38	
CFD-1470	○	1.47	4.5	3	38	
CFD-1480	○	1.48	4.5	3	38	
CFD-1490	○	1.49	4.5	3	38	
CFD-1500	○	1.50	5.0	3	38	
CFD-1510	○	1.51	5.0	3	38	
CFD-1520	○	1.52	5.0	3	38	
CFD-1530	○	1.53	5.0	3	38	
CFD-1540	○	1.54	5.0	3	38	
CFD-1550	○	1.55	5.0	3	38	
CFD-1560	○	1.56	5.0	3	38	
CFD-1570	○	1.57	5.0	3	38	
CFD-1580	○	1.58	5.0	3	38	
CFD-1590	○	1.59	5.0	3	38	
CFD-1600	○	1.60	5.0	3	38	
CFD-1610	○	1.61	5.0	3	38	
CFD-1620	○	1.62	5.0	3	38	
CFD-1630	○	1.63	5.0	3	38	
CFD-1640	○	1.64	5.0	3	38	
CFD-1650	○	1.65	5.0	3	38	
CFD-1660	○	1.66	5.0	3	38	
CFD-1670	○	1.67	5.0	3	38	
CFD-1680	○	1.68	5.0	3	38	
CFD-1690	○	1.69	5.0	3	38	
CFD-1700	○	1.70	6.0	3	38	
CFD-1710	○	1.71	6.0	3	38	
CFD-1720	○	1.72	6.0	3	38	
CFD-1730	○	1.73	6.0	3	38	
CFD-1740	○	1.74	6.0	3	38	
CFD-1750	○	1.75	6.0	3	38	
CFD-1760	○	1.76	6.0	3	38	
CFD-1770	○	1.77	6.0	3	38	
CFD-1780	○	1.78	6.0	3	38	
CFD-1790	○	1.79	6.0	3	38	
CFD-1800	○	1.80	6.5	3	38	
CFD-1810	○	1.81	6.5	3	38	
CFD-1820	○	1.82	6.5	3	38	
CFD-1830	○	1.83	6.5	3	38	
CFD-1840	○	1.84	6.5	3	38	
CFD-1850	○	1.85	6.5	3	38	
CFD-1860	○	1.86	6.5	3	38	
CFD-1870	○	1.87	6.5	3	38	
CFD-1880	○	1.88	6.5	3	38	
CFD-1890	○	1.89	6.5	3	38	
CFD-1900	○	1.90	6.5	3	38	

●标准库存 ○订单生产

CFD-CARBIDE FLAT DRILLS CFD系列-硬质合金平底钻头



- 直径范围 Tool dia: D0.50-D12.0mm
- 直径公差 Dia tolerance: D≤3.00 0,-0.005mm
D>3.00 0,-0.01mm
- 对斜面钻孔一次性加工 Counter boring and guide hole cutting with a single end mill
- 无毛刺加工 Reduces burrs at hole exits
- 缩短工艺流程 钻尖角180° Applicable to various types or drilling thanks to a point angle of 180°



加工材料 Work Material																	
碳素钢 S45C	合金钢 SK-SCM	预热钢 NAK HPM	淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
Carbon Steel	Alloy Steel	Pre-Hardened Steel	~55 HRC ~60 HRC ~70 HRC														

●最适合 ○适合

单位(mm)

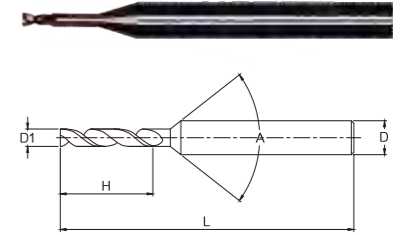
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CFD-2380	○	2.38	9.0	3	38	
CFD-2390	○	2.39	9.0	3	38	
CFD-2400	○	2.40	9.0	3	38	
CFD-2410	○	2.41	9.0	3	38	
CFD-2420	○	2.42	9.0	3	38	
CFD-2430	○	2.43	9.0	3	38	
CFD-2440	○	2.44	9.0	3	38	
CFD-2450	○	2.45	9.0	3	38	
CFD-2460	○	2.46	9.0	3	38	
CFD-2470	○	2.47	9.0	3	38	
CFD-2480	○	2.48	9.0	3	38	
CFD-2490	○	2.49	9.0	3	38	
CFD-2500	○	2.50	9.5	3	38	
CFD-2510	○	2.51	9.5	3	38	
CFD-2520	○	2.52	9.5	3	38	
CFD-2530	○	2.53	9.5	3	38	
CFD-2540	○	2.54	9.5	3	38	
CFD-2550	○	2.55	9.5	3	38	
CFD-2560	○	2.56	9.5	3	38	
CFD-2570	○	2.57	9.5	3	38	
CFD-2580	○	2.58	9.5	3	38	
CFD-2590	○	2.59	9.5	3	38	
CFD-2600	○	2.60	10.0	3	38	
CFD-2610	○	2.61	10.0	3	38	
CFD-2620	○	2.62	10.0	3	38	
CFD-2630	○	2.63	10.0	3	38	
CFD-2640	○	2.64	10.0	3	38	
CFD-2650	○	2.65	10.0	3	38	
CFD-2660	○	2.66	10.0	3	38	
CFD-2670	○	2.67	10.0	3	38	
CFD-2680	○	2.68	10.0	3	38	
CFD-2690	○	2.69	10.0	3	38	
CFD-2700	○	2.70	10.0	3	38	
CFD-2710	○	2.71	10.0	3	38	
CFD-2720	○	2.72	10.0	3	38	
CFD-2730	○	2.73	10.0	3	38	
CFD-2740	○	2.74	10.0	3	38	
CFD-2750	○	2.75	10.0	3	38	
CFD-2760	○	2.76	10.0	3	38	
CFD-2770	○	2.77	10.0	3	38	
CFD-2780	○	2.78	10.0	3	38	
CFD-2790	○	2.79	10.0	3	38	
CFD-2800	○	2.80	10.0	3	38	
CFD-2810	○	2.81	10.0	3	38	
CFD-2820	○	2.82	10.0	3	38	
CFD-2830	○	2.83	10.0	3	38	
CFD-2840	○	2.84	10.0	3	38	

●标准库存 ○订单生产

CFD-CARBIDE FLAT DRILLS CFD系列-硬质合金平底钻头



- 直径范围 Tool dia: D0.50-D12.0mm
- 直径公差 Dia tolerance: D≤3.00 0,-0.005mm
D>3.00 0,-0.01mm
- 对斜面钻孔一次性加工 Counter boring and guide hole cutting with a single end mill
- 无毛刺加工 Reduces burrs at hole exits
- 缩短工艺流程 钻尖角180° Applicable to various types or drilling thanks to a point angle of 180°



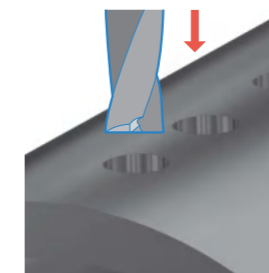
加工材料 Work Material																	
碳素钢 S45C	合金钢 SK-SCM	预热钢 NAK HPM	淬火钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
Carbon Steel	Alloy Steel	Pre-Hardened Steel	~55 HRC ~60 HRC ~70 HRC														

●最适合 ○适合

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CFD-6200	○	6.20	30.0	8	75	
CFD-6300	○	6.30	30.0	8	75	
CFD-6400	○	6.40	30.0	8	75	
CFD-6500	○	6.50	30.0	8	75	
CFD-6600	○	6.60	30.0	8	75	
CFD-6700	○	6.70	30.0	8	75	
CFD-6800	○	6.80	30.0	8	75	
CFD-6900	○	6.90	30.0	8	75	
CFD-7000	○	7.00	30.0	8	75	
CFD-7100	○	7.10	30.0	8	75	
CFD-7200	○	7.20	30.0	8	75	
CFD-7300	○	7.30	30.0	8	75	
CFD-7400	○	7.40	30.0	8	75	
CFD-7500	○	7.50	30.0	8	75	
CFD-7600	○	7.60	30.0	8	75	
CFD-7700	○	7.70	30.0	8	75	
CFD-7800	○	7.80	30.0	8	75	
CFD-7900	○	7.90	30.0	8	75	
CFD-8000	○	8.00	30.0	8	75	
CFD-8100	○	8.10	31.0	10	75	
CFD-8200	○	8.20	32.0	10	75	
CFD-8300	○	8.30	32.0	10	75	
CFD-8400	○	8.40	32.0	10	75	
CFD-8500	○	8.50	32.0	10	75	
CFD-8600	○	8.60	33.0	10	80	
CFD-8700	○	8.70	33.0	10	80	
CFD-8800	○	8.80	34.0	10	80	
CFD-8900	○	8.90	34.0	10	80	
CFD-9000	○	9.00	35.0	10	80	
CFD-9100	○	9.10	35.0	10	80	

●标准库存 ○订单生产

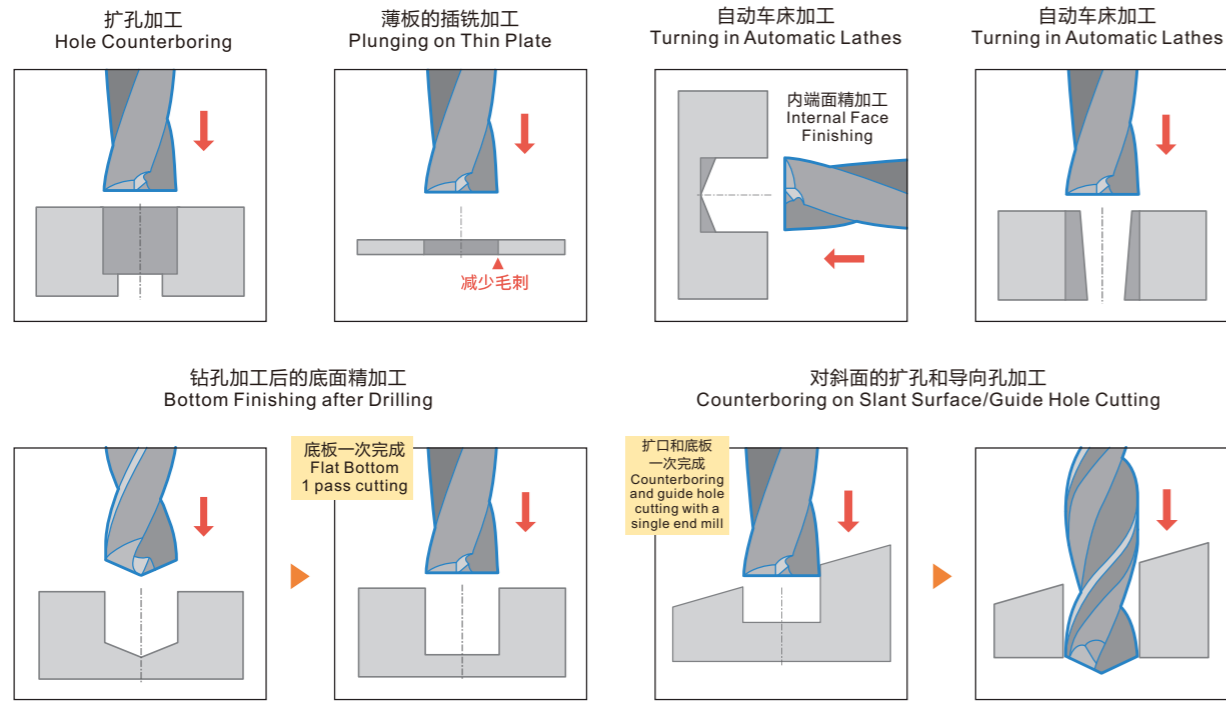


适用于斜面和圆弧面加工! 可抑制通孔出口部分的毛刺
Effective for drilling in inclined and cylindrical surfaces!
Reduces burrs at hole exits

●标准库存 ○订单生产

主要应用:

APPLICATIONS:



推荐切削条件表 Recommended Cutting Conditions

1. 推荐孔深为2XDC. 倾斜面加工时为工件最上部开始的深度
2. 切削条件推荐为平面钻孔时
3. 对倾斜面进行孔加工时, 请根据倾斜角度调整进给速度
4. 倾斜角度为30°以下时, 请将进给速度设为70%以下
5. 倾斜角度超过30°时, 请将进给速度设为50%以下
6. CFD系列不适合进行横向进给和螺旋加工

1. The recommended hole depth is 2 x DC.
- The depth is measured from the highest point of the work when drilling in inclined surfaces.
2. The recommended cutting conditions are those for drilling on flat horizontal surfaces.
3. Adjust the feed rate according to the inclination angle when drilling on an inclined surface.
4. Set the feed rate at 70% or lower when the inclination angle is 30° or less.
5. Set the feed rate at 50% or lower when the inclination angle is larger than 30°.
6. This product is a drilling tool. Do not use it for traversing or helical milling.

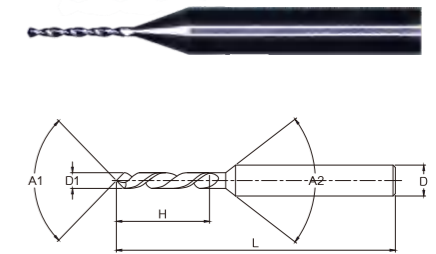
刃径 Diameter	切削条件 Cutting Conditions	一般构造用钢 炭素钢 Structural Steel Carbon Steel ~250HB	合金钢 Alloy Steel ~300HB	高硬度材料 Hardened Steel ~50HRC	不锈钢 Stainless Steel ~200HB	灰口铸铁 Gray Cast Iron FC250	球墨铸铁 Ductile Cast Iron FCD450	铝合金 Aluminum Alloy
0.5	Vc m/min f mm/rev	30-40-50 0.004-0.005-0.006	30-35-40 0.004-0.005-0.006	15-20-25 0.001-0.002-0.003	15-20-25 0.003-0.004-0.005	30-40-50 0.004-0.005-0.006	20-30-40 0.001-0.003-0.005	60-80-100 0.003-0.005-0.007
1.0	Vc m/min f mm/rev	45-55-65 0.01-0.03-0.05	35-45-55 0.01-0.03-0.05	20-30-40 0.002-0.006-0.01	20-25-30 0.005-0.007-0.01	45-55-65 0.01-0.03-0.05	30-40-50 0.005-0.01-0.015	80-100-120 0.01-0.02-0.03
2.0	Vc m/min f mm/rev	50-60-70 0.02-0.04-0.06	40-50-60 0.02-0.04-0.06	20-30-40 0.01-0.018-0.025	20-30-40 0.01-0.015-0.02	50-60-70 0.02-0.04-0.06	45-55-65 0.015-0.03-0.045	90-110-130 0.03-0.05-0.07
4.0	Vc m/min f mm/rev	60-75-90 0.06-0.08-0.10	50-65-80 0.05-0.08-0.10	20-30-40 0.01-0.02-0.03	20-30-50 0.01-0.02-0.03	60-75-90 0.06-0.08-0.10	55-65-75 0.04-0.06-0.08	90-110-130 0.06-0.08-0.10
6.0	Vc m/min f mm/rev	60-75-90 0.05-0.10-0.15	50-65-80 0.05-0.10-0.15	20-30-40 0.04-0.06-0.08	20-30-50 0.03-0.04-0.05	60-75-90 0.05-0.10-0.15	60-70-80 0.06-0.09-0.12	90-110-130 0.05-0.10-0.15
8.0	Vc m/min f mm/rev	60-75-90 0.10-0.15-0.20	50-65-80 0.10-0.15-0.20	20-30-40 0.06-0.08-0.10	20-30-50 0.04-0.06-0.08	60-75-90 0.10-0.15-0.20	60-70-80 0.10-0.12-0.15	90-110-130 0.10-0.15-0.20
10.0	Vc m/min f mm/rev	60-75-90 0.12-0.17-0.22	50-65-80 0.12-0.17-0.22	20-30-40 0.08-0.10-0.12	20-30-50 0.06-0.08-0.10	60-75-90 0.12-0.17-0.22	60-70-80 0.12-0.15-0.18	90-110-130 0.12-0.17-0.22
12.0	Vc m/min f mm/rev	60-75-90 0.15-0.20-0.25	50-65-80 0.15-0.20-0.25	20-30-40 0.12-0.15-0.18	20-30-50 0.08-0.10-0.12	60-75-90 0.15-0.20-0.25	60-70-80 0.15-0.18-0.20	90-110-130 0.15-0.20-0.25

CPD- GENERAL PURPOSE MICRO DRILLS

CPD 普通微型钻头



- 直径范围 Tool dia: D0.04-D3.0mm
- 直径公差 Dia tolerance: 0,-0.003mm
- 采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide
- 超精公差管控, 优秀的切削力与排屑性
High precision tolerance control, excellent cutting force and chip removal
- 特别适于工程塑胶、一般钢等软体材料精密的孔加工
Suitable for precision hole machining of soft materials such as engineering plastics and ordinary steel



加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

单位:(mm)							单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB	型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPD0040	○	0.040	0.40	3	38		CPD0450	○	0.45	6.0	3	38	
CPD0045	○	0.045	0.45	3	38		CPD0460	○	0.46	6.0	3	38	
CPD0050	○	0.050	0.50	3	38		CPD0470	○	0.47	6.0	3	38	
CPD0055	○	0.055	0.55	3	38		CPD0480	○	0.48	6.0	3	38	
CPD0060	○	0.060	0.60	3	38		CPD0490	○	0.49	6.0	3	38	
CPD0065	○	0.065	0.65	3	38		CPD0500	○	0.50	6.0	3	38	
CPD0070	○	0.070	0.70	3	38		CPD0510	○	0.51	6.0	3	38	
CPD0075	○	0.075	0.75	3	38		CPD0520	○	0.52	6.0	3	38	
CPD0080	○	0.080	0.80	3	38		CPD0530	○	0.53	6.0	3	38	
CPD0085	○	0.085	0.85	3	38		CPD0540	○	0.54	6.0	3	38	
CPD0090	○	0.090	0.90	3	38		CPD0550	○	0.55	6.0	3	38	
CPD0095	○	0.095	0.95	3	38		CPD0560	○	0.56	6.0	3	38	
CPD0100	○	0.10	1.5	3	38		CPD0570	○	0.57	6.0	3	38	
CPD0110	○	0.11	1.5	3	38		CPD0580	○	0.58	6.0	3	38	
CPD0120	○	0.12	2.5	3	38		CPD0590	○	0.59	6.0	3	38	
CPD0130	○	0.13	2.5	3	38		CPD0600	○	0.60	7.0	3	38	
CPD0140	○	0.14	2.5	3	38		CPD0610	○	0.61	7.0	3	38	
CPD0150	○	0.15	2.5	3	38		CPD0620	○	0.62	7.0	3	38	
CPD0160	○	0.16	2.5	3	38		CPD0630	○	0.63	7.0	3	38	
CPD0170	○	0.17	2.5	3	38		CPD0640	○	0.64	7.0	3	38	
CPD0180	○	0.18	2.5	3	38		CPD0650	○	0.65	7.0	3	38	
CPD0190	○	0.19	2.5	3	38		CPD0660	○	0.66	7.0	3	38	
CPD0200	○	0.20	3.5	3	38		CPD0670	○	0.67	7.0	3	38	
CPD0210	○	0.21	3.5	3	38		CPD0680	○	0.68	7.0	3	38	
CPD0220	○	0.22	3.5	3	38		CPD0690	○	0.69	7.0	3	38	
CPD0230	○	0.23	3.5	3	38		CPD0700	○	0.70	8.0	3	38	
CPD0240	○	0.24	3.5	3	38		CPD0710	○	0.71	8.0	3	38	
CPD0250	○	0.25	3.5	3	38		CPD0720	○	0.72	8.0	3	38	
CPD0260	○	0.26	3.5	3	38		CPD0730	○	0.73	8.0	3	38	
CPD0270	○	0.27	3.5	3	38		CPD0740	○	0.74	8.0	3	38	
CPD0280	○	0.28	3.5	3	38		CPD0750	○	0.75	8.0	3	38	
CPD0290	○	0.29	3.5	3	38		CPD0760	○	0.76	8.0	3	38	
CPD0300	○	0.30	5.0	3	38		CPD0770	○	0.77	8.0	3	38	
CPD0310	○	0.31	5.0	3	38		CPD0780	○	0.78	8.0	3	38	
CPD0320	○	0.32	5.0	3	38		CPD0790	○	0.79	8.0	3	38	
CPD0330	○	0.33	5.0	3	38		CPD0800	○	0.80	8.0	3	38	
CPD0340	○	0.34	5.0	3	38		CPD0810	○	0.81	8.0	3	38	
CPD0350	○	0.35	5.0	3	38		CPD0820	○	0.82	8.0	3	38	
CPD0360	○	0.36	5.0	3	38		CPD0830	○	0.83	8.0	3	38	
CPD0370	○	0.37	5.0	3	38		CPD0840	○	0.84	8.0	3	38	
CPD0380	○	0.38	5.0	3	38		CPD0850	○	0.85	8.0	3	38	
CPD0390	○	0.39	5.0	3	38		CPD0860	○	0.86	8.0	3	38	
CPD0400	○	0.40	6.0	3	38		CPD0870	○	0.87	8.0	3	38	
CPD0410	○	0.41	6.0	3	38		CPD0880	○	0.88	8.0	3	38	
CPD0420	○	0.42	6.0	3	38		CPD0883	○	0.883	8.0	3	38	
CPD0430	○	0.43	6.0	3	38		CPD0885	○	0.885	8.0	3	38	
CPD0440	○	0.44	6.0	3	38		CPD0887	○	0.887	8.0	3	38	

●标准库存 ○订单生产

●标准库存 ○订单生产

CPD- GENERAL PURPOSE MICRO DRILLS

CPD 普通微型钻头

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPD0888	○	0.888	8.0	3	38	
CPD0890	○	0.890	8.0	3	38	
CPD0893	○	0.893	8.0	3	38	
CPD0895	○	0.895	8.0	3	38	
CPD0897	○	0.897	8.0	3	38	
CPD0900	○	0.90	8.0	3	38	
CPD0910	○	0.91	8.0	3	38	
CPD0920	○	0.92	8.0	3	38	
CPD0930	○	0.93	8.0	3	38	
CPD0940	○	0.94	8.0	3	38	
CPD0950	○	0.95	8.0	3	38	
CPD0960	○	0.96	8.0	3	38	
CPD0970	○	0.97	8.0	3	38	
CPD0980	○	0.98	8.0	3	38	
CPD0990	○	0.99	8.0	3	38	
CPD1000	○	1.00	10.0	3	38	
CPD1010	○	1.01	10.0	3	38	
CPD1020	○	1.02	10.0	3	38	
CPD1030	○	1.030	10.0	3	38	
CPD1040	○	1.040	10.0	3	38	
CPD1050	○	1.050	10.0	3	38	
CPD1060	○	1.060	10.0	3	38	
CPD1070	○	1.070	10.0	3	38	
CPD1080	○	1.080	10.0	3	38	
CPD1083	○	1.083	10.0	3	38	
CPD1085	○	1.085	10.0	3	38	
CPD1087	○	1.087	10.0	3	38	
CPD1088	○	1.088	10.0	3	38	
CPD1090	○	1.090	10.0	3	38	
CPD1093	○	1.093	10.0	3	38	
CPD1095	○	1.095	10.0	3	38	
CPD1097	○	1.097	10.0	3	38	
CPD1100	○	1.10	10.0	3	38	
CPD1110	○	1.11	10.0	3	38	
CPD1120	○	1.12	10.0	3	38	
CPD1130	○	1.13	10.0	3	38	
CPD1140	○	1.14	10.0	3	38	
CPD1150	○	1.15	10.0	3	38	
CPD1160	○	1.16	10.0	3	38	
CPD1170	○	1.17	10.0	3	38	
CPD1180	○	1.18	10.0	3	38	
CPD1190	○	1.19	10.0	3	38	
CPD1200	○	1.20	10.0	3	38	
CPD1210	○	1.21	10.0	3	38	
CPD1220	○	1.22	10.0	3	38	
CPD1230	○	1.23	10.0	3	38	
CPD1240	○	1.24	10.0	3	38	
CPD1250	○	1.25	10.0	3	38	
CPD1255	○	1.255	10.0	3	38	
CPD1260	○	1.260	10.0	3	38	
CPD1265	○	1.265	10.0	3	38	
CPD1270	○	1.270	10.0	3	38	
CPD1280	○	1.280	10.0	3	38	
CPD1283	○	1.283	10.0	3	38	
CPD1285	○	1.285	10.0	3	38	
CPD1290	○	1.290	10.0	3	38	
CPD1300	○	1.30	10.0	3	38	
CPD1310	○	1.31	10.0	3	38	
CPD1320	○	1.32	10.0	3	38	
CPD1330	○	1.33	10.0	3	38	
CPD1340	○	1.34	10.0	3	38	
CPD1350	○	1.35	10.0	3	38	
CPD1360	○	1.36	10.0	3	38	
CPD1370	○	1.37	10.0	3	38	
CPD1380	○	1.38	10.0	3	38	
CPD1390	○	1.39	10.0	3	38	
CPD1400	○	1.40	10.0	3	38	
CPD1410	○	1.41	10.0	3	38	
CPD1420	○	1.42	10.0	3	38	
CPD1430	○	1.43	10.0	3	38	
CPD1440	○	1.44	10.0	3	38	
CPD1450	○	1.45	10.0	3	38	

●标准库存 ○订单生产

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPD1455	○	1.455	10.0	3	38	
CPD1460	○	1.460	10.0	3	38	
CPD1470	○	1.470	10.0	3	38	
CPD1480	○	1.480	10.0	3	38	
CPD1490	○	1.49	10.0	3	38	
CPD1500	○	1.50	10.0	3	38	
CPD1510	○	1.51	10.0	3	38	
CPD1520	○	1.52	10.0	3	38	
CPD1530	○	1.53	10.0	3	38	
CPD1540	○	1.54	10.0	3	38	
CPD1550	○	1.55	10.0	3	38	
CPD1560	○	1.56	10.0	3	38	
CPD1570	○	1.57	10.0	3	38	
CPD1580	○	1.58	10.0	3	38	
CPD1590	○	1.59	10.0	3	38	
CPD1600	○	1.60	12.0	3	38	
CPD1610	○	1.61	12.0	3	38	
CPD1620	○	1.62	12.0	3	38	
CPD1630	○	1.63	12.0	3	38	
CPD1640	○	1.64	12.0	3	38	
CPD1650	○	1.65	12.0	3	38	
CPD1660	○	1.66	12.0	3	38	
CPD1670	○	1.67	12.0	3	38	
CPD1680	○	1.68	12.0	3	38	
CPD1690	○	1.69	12.0	3	38	
CPD1700	○	1.70	12.0	3	38	
CPD1710	○	1.71	12.0	3	38	
CPD1720	○	1.72	12.0	3	38	
CPD1730	○	1.73	12.0	3	38	
CPD1740	○	1.74	12.0	3	38	
CPD1750	○	1.75	12.0	3	38	
CPD1760	○	1.76	12.0	3	38	
CPD1770	○	1.77	12.0	3	38	
CPD1780	○	1.78	12.0	3	38	
CPD1790	○	1.79	12.0	3	38	
CPD1800	○	1.80	12.0	3	38	
CPD1810	○	1.81	12.0	3	38	
CPD1820	○	1.82	12.0	3	38	
CPD1830	○	1.83	12.0	3	38	
CPD1840	○	1.84	12.0	3	38	
CPD1850	○	1.85	12.0	3	38	
CPD1860	○	1.86	12.0	3	38	
CPD1870	○	1.87	12.0	3	38	
CPD1880	○	1.88	12.0	3	38	
CPD1890	○	1.89	12.0	3	38	
CPD1900	○	1.90	12.0	3	38	
CPD1910	○	1.91	12.0	3	38	
CPD1920	○	1.92	12.0	3	38	
CPD1930	○	1.93	12.0	3	38	
CPD1940	○	1.94	12.0	3	38	
CPD1950	○	1.95	12.0	3	38	
CPD1960	○	1.96	12.0	3	38	
CPD1970	○	1.97	12.0	3	38	
CPD1980	○	1.98	12.0	3	38	
CPD1990	○	1.99	12.0	3	38	
CPD2000	○	2.00	12.0	3	38	
CPD2010	○	2.01	12.0	3	38	
CPD2020	○	2.02	12.0	3	38	
CPD2030	○	2.03	12.0	3	38	
CPD2040	○	2.04	12.0	3	38	
CPD2050	○	2.05	12.0	3	38	
CPD2060	○	2.06	12.0	3	38	
CPD2070	○	2.07	12.0	3	38	
CPD2080	○	2.08	12.0	3	38	
CPD2090	○	2.09	12.0	3	38	
CPD2100	○	2.10	12.0	3	38	
CPD2110	○	2.11	12.0	3	38	
CPD2120	○	2.12	12.0	3	38	
CPD2130	○	2.13	12.0	3	38	
CPD2140	○	2.14	12.0	3	38	
CPD2150	○	2.15	12.0	3	38	
CPD2160	○	2.16	12.0	3	38	

●标准库存 ○订单生产

CPD- GENERAL PURPOSE MICRO DRILLS

CPD 普通微型钻头

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPD2170	○	2.17	12.0	3	38	
CPD2180	○	2.18	12.0	3	38	
CPD2190	○	2.19	12.0	3	38	
CPD2200	○	2.20	12.0	3	38	
CPD2210	○	2.21	12.0	3	38	
CPD2220	○	2.22	12.0	3	38	
CPD2230	○	2.23	12.0	3	38	
CPD2240	○	2.24	12.0	3	38	
CPD2250	○	2.25	12.0	3	38	
CPD2260	○	2.26	12.0	3	38	
CPD2270	○	2.27	12.0	3	38	
CPD2280	○	2.28	12.0	3	38	
CPD2290	○	2.29	12.0	3	38	
CPD2300	○	2.30	12.0	3	38	
CPD2310	○	2.31	12.0	3	38	
CPD2320	○	2.32	12.0	3	38	
CPD2330	○	2.33	12.0	3	38	
CPD2340	○	2.34	12.0	3	38	
CPD2350	○	2.35	12.0	3	38	
CPD2360	○	2.36	12.0	3	38	
CPD2370	○	2.37	12.0	3	38	
CPD2380	○	2.38	12.0	3	38	
CPD2390	○	2.39	12.0	3	38	
CPD2400	○	2.40	12.0	3	38	
CPD2410	○	2.41	12.0	3	38	
CPD2420	○	2.42	12.0	3	38	
CPD2430	○	2.43	12.0	3	38	
CPD2440	○	2.44	12.0	3	38	
CPD2450	○	2.45	12.0	3	38	
CPD2460	○	2.46	12.0	3	38	
CPD2470	○	2.47	12.0	3	38	
CPD2480	○	2.48	12.0	3	38	
CPD2490	○	2.49	12.0	3	38	
CPD2500	○	2.50	12.0	3	38	
CPD2510	○	2.51	12.0	3	38	
CPD2520	○	2.52	12.0	3	38	
CPD2530	○	2.53	12.0	3	38	
CPD2540	○	2.54	12.0	3	38	
CPD2550	○	2.55	12.0	3	38	
CPD2560	○	2.56	12.0	3	38	
CPD2570	○	2.57	12.0	3	38	
CPD2580	○	2.58	12.0	3	38	
CPD2590	○	2.59	12.0	3	38	

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不銹鋼 Stainless Steel			鋁合金 Aluminum Alloy			銅合金 Copper Alloy			工程塑膠、樹脂 Plastics Resin		
	直徑 Drill Dia. mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm
0.04-0.09	10000	10~	0.001~																		

CPDL- GENERAL PURPOSE LONG FLUTE MICRO DRILLS

CPDL 普通加长微型钻头



●直径范围 Tool dia: D0.04-D3.0mm

●直径公差 Dia tolerance: 0,-0.003mm

●采用超微细颗粒硬质合金圆棒

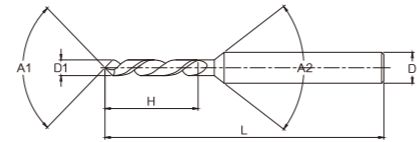
Micro Grain Tungsten Carbide

●超精公差管控, 优秀的切削力与排屑性

High precision tolerance control, excellent cutting force and chip removal

●特别适于工程塑胶、一般钢等软体材料精密的孔加工

Suitable for precision hole machining of soft materials such as engineering plastics and ordinary steel



加工材料 Work Material

碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
-------------------------------------	-------------------------------------	---	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

○最适合 ○适合

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPDL0040	○	0.040	0.6	3	38	
CPDL0045	○	0.045	0.7	3	38	
CPDL0050	○	0.050	0.9	3	38	
CPDL0055	○	0.055	0.9	3	38	
CPDL0060	○	0.060	0.9	3	38	
CPDL0065	○	0.065	0.9	3	38	
CPDL0070	○	0.070	1.2	3	38	
CPDL0075	○	0.075	1.2	3	38	
CPDL0080	○	0.080	1.2	3	38	
CPDL0085	○	0.085	1.2	3	38	
CPDL0090	○	0.090	1.2	3	38	
CPDL0095	○	0.095	1.2	3	38	
CPDL0100	○	0.10	2.0	3	38	
CPDL0110	○	0.11	2.0	3	38	
CPDL0120	○	0.12	2.0	3	38	
CPDL0130	○	0.13	3.0	3	38	
CPDL0140	○	0.14	3.0	3	38	
CPDL0150	○	0.15	3.0	3	38	
CPDL0160	○	0.16	4.0	3	38	
CPDL0170	○	0.17	4.0	3	38	
CPDL0180	○	0.18	4.0	3	38	
CPDL0190	○	0.19	4.0	3	38	
CPDL0200	○	0.20	4.0	3	38	
CPDL0210	○	0.21	5.0	3	38	
CPDL0220	○	0.22	5.0	3	38	
CPDL0230	○	0.23	5.0	3	38	
CPDL0240	○	0.24	5.0	3	38	
CPDL0250	○	0.25	5.0	3	38	
CPDL0260	○	0.26	6.0	3	38	
CPDL0270	○	0.27	6.0	3	38	
CPDL0280	○	0.28	6.0	3	38	
CPDL0290	○	0.29	6.0	3	38	
CPDL0300	○	0.30	6.0	3	38	
CPDL0310	○	0.31	6.0	3	38	
CPDL0320	○	0.32	6.0	3	38	
CPDL0330	○	0.33	6.0	3	38	
CPDL0340	○	0.34	6.0	3	38	
CPDL0350	○	0.35	6.0	3	38	
CPDL0360	○	0.36	6.0	3	38	
CPDL0370	○	0.37	6.0	3	38	
CPDL0380	○	0.38	6.0	3	38	
CPDL0390	○	0.39	6.0	3	38	
CPDL0400	○	0.40	6.0	3	38	
CPDL0410	○	0.41	7.0	3	38	
CPDL0420	○	0.42	7.0	3	38	
CPDL0430	○	0.43	7.0	3	38	
CPDL0440	○	0.44	7.0	3	38	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPDL0450	○	0.45	7.0	3	38	
CPDL0460	○	0.46	7.0	3	38	
CPDL0470	○	0.47	7.0	3	38	
CPDL0480	○	0.48	7.0	3	38	
CPDL0490	○	0.49	7.0	3	38	
CPDL0500	○	0.50	7.0	3	38	
CPDL0510	○	0.51	9.0	3	38	
CPDL0520	○	0.52	9.0	3	38	
CPDL0530	○	0.53	9.0	3	38	
CPDL0540	○	0.54	9.0	3	38	
CPDL0550	○	0.55	9.0	3	38	
CPDL0560	○	0.56	9.0	3	38	
CPDL0570	○	0.57	9.0	3	38	
CPDL0580	○	0.58	9.0	3	38	
CPDL0590	○	0.59	9.0	3	38	
CPDL0600	○	0.60	9.0	3	38	
CPDL0610	○	0.61	9.0	3	38	
CPDL0620	○	0.62	9.0	3	38	
CPDL0630	○	0.63	9.0	3	38	
CPDL0640	○	0.64	9.0	3	38	
CPDL0650	○	0.65	9.0	3	38	
CPDL0660	○	0.66	9.0	3	38	
CPDL0670	○	0.67	9.0	3	38	
CPDL0680	○	0.68	9.0	3	38	
CPDL0690	○	0.69	9.0	3	38	
CPDL0700	○	0.7	9.0	3	38	
CPDL0710	○	0.71	10.0	3	38	
CPDL0720	○	0.72	10.0	3	38	
CPDL0730	○	0.73	10.0	3	38	
CPDL0740	○	0.74	10.0	3	38	
CPDL0750	○	0.75	10.0	3	38	
CPDL0760	○	0.76	10.0	3	38	
CPDL0770	○	0.77	10.0	3	38	
CPDL0780	○	0.78	10.0	3	38	
CPDL0790	○	0.79	10.0	3	38	
CPDL0800	○	0.80	10.0	3	38	
CPDL0810	○	0.81	10.0	3	38	
CPDL0820	○	0.82	10.0	3	38	
CPDL0830	○	0.83	10.0	3	38	
CPDL0840	○	0.84	10.0	3	38	
CPDL0850	○	0.85	10.0	3	38	
CPDL0860	○	0.86	10.0	3	38	
CPDL0870	○	0.87	10.0	3	38	
CPDL0880	○	0.88	10.0	3	38	
CPDL0890	○	0.89	10.0	3	38	
CPDL0900	○	0.9	10.0	3	38	
CPDL0910	○	0.91	10.0	3	38	

●标准库存 ○订单生产

CPDL- GENERAL PURPOSE LONG FLUTE MICRO DRILLS

CPDL 普通加长微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPDL0920	○	0.92	10.0	3	38	
CPDL0930	○	0.93	10.0	3	38	
CPDL0940	○	0.94	10.0	3	38	
CPDL0950	○	0.95	10.0	3	38	
CPDL0960	○	0.96	10.0	3	38	
CPDL0970	○	0.97	10.0	3	38	
CPDL0980	○	0.98	10.0	3	38	
CPDL0990	○	0.99	10.0	3	38	
CPDL1000	○	1.0	12.0	3	50	
CPDL1010	○	1.01	12.0	3	50	
CPDL1020	○	1.02	12.0	3	50	
CPDL1030	○	1.03	12.0	3	50	
CPDL1040	○	1.04	12.0	3	50	
CPDL1050	○	1.05	12.0	3	50	
CPDL1060	○	1.06	12.0	3	50	
CPDL1070	○	1.07	12.0	3	50	
CPDL1080	○	1.08	12.0	3	50	
CPDL1090	○	1.09	12.0	3	50	
CPDL1100	○	1.1	12.0	3	50	
CPDL1110	○	1.11	12.0	3	50	
CPDL1120	○	1.12	12.0	3	50	
CPDL1130	○	1.13	12.0	3	50	
CPDL1140	○	1.14	12.0	3	50	
CPDL1150	○	1.15	12.0	3	50	
CPDL1160	○	1.16	12.0	3	50	
CPDL1170	○	1.17	12.0	3	50	
CPDL1180	○	1.18	12.0	3	50	
CPDL1190	○	1.19	12.0	3	50	
CPDL1200	○	1.2	15.0	3	50	
CPDL1210	○	1.21	15.0	3	50	
CPDL1220	○	1.22	15.0	3	50	
CPDL1230	○	1.23	15.0	3	50	
CPDL1240	○	1.24	15.0	3	50	
CPDL1250	○	1.25	15.0	3	50	
CPDL1260	○	1.26	15.0	3	50	
CPDL1270	○	1.27	15.0	3	50	
CPDL1280	○	1.28	15.0	3	50	
CPDL1290	○	1.29	15.0	3	50	
CPDL1300	○	1.3	15.0	3	50	
CPDL1310	○	1.31	15.0	3	50	
CPDL1320	○	1.32	15.0	3	50	
CPDL1330	○	1.33	15.0	3	50	
CPDL1340	○	1.34	15.0	3	50	
CPDL1350	○	1.35	15.0	3	50	
CPDL1360	○	1.36	15.0	3	50	
CPDL1370	○	1.37	15.0	3	50	
CPDL1380	○	1.38	15.0	3	50	
CPDL1390	○	1.39	15.0	3	50	
CPDL1400	○	1.4	15.0	3	50	
CPDL1410	○	1.41	15.0	3	50	
CPDL1420	○	1.42	15.0	3	50	
CPDL1430	○	1.43	15.0	3	50	
CPDL1440	○	1.44	15.0	3	50	
CPDL1450	○	1.45	15.0	3	50	
CPDL1460	○	1.46	15.0	3	50	
CPDL1470	○	1.47	15.0	3	50	
CPDL1480	○	1.48	15.0	3	50	
CPDL1490	○	1.49	15.0	3	50	
CPDL1500	○	1.5	20.0	3	50	
CPDL1510	○	1.51	20.0	3	50	
CPDL1520	○	1.52	20.0	3	50	
CPDL1530	○	1.53	20.0	3	50	
CPDL1540	○	1.54	20.0	3	50	
CPDL1550	○	1.55	20.0	3	50	
CPDL1560	○	1.56	20.0	3	50	
CPDL1570	○	1.57	20.0	3	50	
CPDL1580	○	1.58	20.0	3	50	
CPDL1590	○	1.59	20.0	3	50	
CPDL1600	○	1.6	20.0	3	50	
CPDL1610	○	1.61	20.0	3	50	
CPDL1620	○	1.62	20.0	3	50	
CPDL1630	○	1.63	20.0	3	50	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPDL1640	○	1.64	20.0	3	50	
CPDL1650	○	1.65	20.0	3	50	
CPDL1660	○	1.66	20.0	3	50	
CPDL1670	○	1.67	20.0	3	50	
CPDL1680	○	1.68	20.0	3	50	
CPDL1690	○	1.69	20.0	3	50	
CPDL1700	○	1.70	20.0	3	50	
CPDL1710	○	1.71	20.0	3	50	
CPDL1720	○	1.72	20.0	3	50	
CPDL1730	○	1.73	20.0	3	50	
CPDL1740	○	1.74	20.0	3	50	
CPDL1750	○	1.75	20.0	3	50	
CPDL1760	○	1.76	20.0	3	50	
CPDL1770	○	1.77	20.0	3	50	
CPDL1780	○					

CPDL- GENERAL PURPOSE LONG FLUTE MICRO DRILLS

CPDL 普通加长微型钻头

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPDL2360	○	2.36	25.0	3	60	
CPDL2370	○	2.37	25.0	3	60	
CPDL2380	○	2.38	25.0	3	60	
CPDL2390	○	2.39	25.0	3	60	
CPDL2400	○	2.40	25.0	3	60	
CPDL2410	○	2.41	25.0	3	60	
CPDL2420	○	2.42	25.0	3	60	
CPDL2430	○	2.43	25.0	3	60	
CPDL2440	○	2.44	25.0	3	60	
CPDL2450	○	2.45	25.0	3	60	
CPDL2460	○	2.46	25.0	3	60	
CPDL2470	○	2.47	25.0	3	60	
CPDL2480	○	2.48	25.0	3	60	
CPDL2490	○	2.49	25.0	3	60	
CPDL2500	○	2.50	25.0	3	60	
CPDL2510	○	2.51	25.0	3	60	
CPDL2520	○	2.52	25.0	3	60	
CPDL2530	○	2.53	25.0	3	60	
CPDL2540	○	2.54	25.0	3	60	
CPDL2550	○	2.55	25.0	3	60	
CPDL2560	○	2.56	25.0	3	60	
CPDL2570	○	2.57	25.0	3	60	
CPDL2580	○	2.58	25.0	3	60	
CPDL2590	○	2.59	25.0	3	60	
CPDL2600	○	2.60	25.0	3	60	
CPDL2610	○	2.61	25.0	3	60	
CPDL2620	○	2.62	25.0	3	60	
CPDL2630	○	2.63	25.0	3	60	
CPDL2640	○	2.64	25.0	3	60	
CPDL2650	○	2.65	25.0	3	60	
CPDL2660	○	2.66	25.0	3	60	
CPDL2670	○	2.67	25.0	3	60	
CPDL2680	○	2.68	25.0	3	60	

●标准库存 ○订单生产

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CPDL2690	○	2.69	25.0	3	60	
CPDL2700	○	2.70	25.0	3	60	
CPDL2710	○	2.71	25.0	3	60	
CPDL2720	○	2.72	25.0	3	60	
CPDL2730	○	2.73	25.0	3	60	
CPDL2740	○	2.74	25.0	3	60	
CPDL2750	○	2.75	25.0	3	60	
CPDL2760	○	2.76	25.0	3	60	
CPDL2770	○	2.77	25.0	3	60	
CPDL2780	○	2.78	25.0	3	60	
CPDL2790	○	2.79	25.0	3	60	
CPDL2800	○	2.80	25.0	3	60	
CPDL2810	○	2.81	25.0	3	60	
CPDL2820	○	2.82	25.0	3	60	
CPDL2830	○	2.83	25.0	3	60	
CPDL2840	○	2.84	25.0	3	60	
CPDL2850	○	2.85	25.0	3	60	
CPDL2860	○	2.86	25.0	3	60	
CPDL2870	○	2.87	25.0	3	60	
CPDL2880	○	2.88	25.0	3	60	
CPDL2890	○	2.89	25.0	3	60	
CPDL2900	○	2.90	25.0	3	60	
CPDL2910	○	2.91	25.0	3	60	
CPDL2920	○	2.92	25.0	3	60	
CPDL2930	○	2.93	25.0	3	60	
CPDL2940	○	2.94	25.0	3	60	
CPDL2950	○	2.95	25.0	3	60	
CPDL2960	○	2.96	25.0	3	60	
CPDL2970	○	2.97	25.0	3	60	
CPDL2980	○	2.98	25.0	3	60	
CPDL2990	○	2.99	25.0	3	60	
CPDL3000	○	3.00	25.0	3	60	

●标准库存 ○订单生产

Standard Drilling Conditions

被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不銹鋼 Stainless Steel			鋁合金 Aluminum Alloy			銅合金 Copper Alloy			工程塑膠、樹脂 Plastics Resin		
	直徑 Drill Dia. mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm
0.04-0.09	10000~	10~	0.001~	10000~	10~	0.001~	10000~	10~	0.001~	10000~	5~	0.0005~	10000~	10~	0.001~	10000~	20~	0.002~	10000~	10~	0.001~
	20000	30	0.0015	20000	30	0.0015	20000	20	0.001	20000	20	0.001	30000	90	0.003	20000	100	0.005	20000	60	0.003
0.1-0.29	19000~	38~	0.002~	16000~	22~	0.0014~	13000~	13~	0.001~	10000~	5	0.0005~	22200~	110~	0.005~	16000~	32~	0.002~	20000~	100~	0.005~
	13000	130	0.01	11000	75	0.007	8800	35	0.004	5000	0.001	16500	330	0.02	11000	88	0.008	15000	150	0.01	
0.3-0.49	13000~	130~	0.01~	11000~	75~	0.007~	8800~	26~	0.003~	5000~	5~	0.001~	16500~	330~	0.02~	11000~	88~	0.008~	15000~	150~	0.01~
	12000	240	0.02	9700	95	0.01	6500	32	0.005	4500	22	0.005	13000	520	0.04	11500	170	0.015	15000	300	0.02
0.5-0.99	12000~	240~	0.02~	9700~	95~	0.01~	6500~	32~	0.005~	4500~	22~	0.005~	13000~	520~	0.04~	11500~	170~	0.015~	15000~	150~	0.02~
	9600	380	0.04	6400	128	0.02	4800	48	0.01	3200	32	0.01	12700	760	0.06	9600	380	0.04	10000	400	0.04
1.0-1.99	9600~	290~	0.03~	6400~	128~	0.02~	3100~	31~	0.01~	3200~	32~	0.01~	12700~	760~	0.06~	9600~	380~	0.04~	10000~	500~	0.05~
	6400	380	0.06	4000	200	0.05	2400	72	0.03	2400	72	0.03	6400	760	0.12	4800	380	0.08	6000	500	0.07
2.0-3.0	6400~	440~	0.07~	4000~	200~	0.05~	2400~	48~	0.02~	2400~	72~	0.03~	6400~	760~	0.12~	4800~	380~	0.08~	6000~	500~	0.07~
	4200		0.1	3200	260	0.08	1600	64	0.04	1800	90	0.05	5300	1060	0.2	4200	630	0.15	5000		0.1

CDD- DLC COATING MICRO DRILLS

CDD DLC涂层微型钻头



- 直径范围 Tool dia: D0.04-D3.0mm
- 直径公差 Dia tolerance: 0,-0.003mm

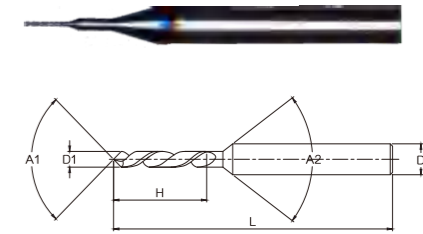
●采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide

- 超精公差管控，优秀的切削力与排屑性
High precision tolerance control, excellent cutting force and chip removal

●特别适于工程塑胶、一般钢等软体材料精密的孔加工

Suitable for precision hole machining of soft materials such as engineering plastics and ordinary steel

DLC涂层，增加排屑效果 DLC Coating, Increase chip removal effect



加工材料 Work Material

碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
-------------------------------------	-------------------------------------	---	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

○最适合 ○适合

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDD0040	○	0.040	0.40	3	38	
CDD0045	○	0.045	0.45	3	38	
CDD0050	○	0.050	0.50	3	38	
CDD0055	○	0.055	0.55	3	38	
CDD0060	○	0.060	0.60	3	38	
CDD0065	○	0.065	0.65	3	38	
CDD0070	○	0.070	0.70	3	38	
CDD0075	○	0.075	0.75	3	38	
CDD0080	○	0.080	0.80	3	38	
CDD0085	○	0.085	0.85	3	38	
CDD0090	○	0.090	0.90	3	38	
CDD0095	○	0.095	0.95	3	38	
CDD0100	○	0.10	1.5	3	38	
CDD0110	○	0.11	1.5	3	38	
CDD0120	○	0.12	2.5	3	38	
CDD0130	○	0.13	2.5	3	38	
CDD0140	○	0.14	2.5	3	38	
CDD0150	○	0.15	2.5	3	38	
CDD0160	○	0.16	2.5	3	38	
CDD0170	○	0.17	2.5	3	38	
CDD0180	○	0.18	2.5	3	38	
CDD0190	○	0.19	2.5	3	38	
CDD0200	○	0.20	3.5	3	38	
CDD0210	○	0.21	3.5	3	38	
CDD0220	○	0.22	3.5	3	38	
CDD0230	○	0.23	3.5	3	38	
CDD0240	○	0.24	3.5	3	38	
CDD0250	○	0.25	3.5	3	38	
CDD0260	○	0.26	3.5	3	38	
CDD0270	○	0.27	3.5	3	38	
CDD0280	○	0.28	3.5	3	38	
CDD0290	○	0.29	3.5	3	38	
CDD0300	○	0.30	5.0	3	38	
CDD0310	○	0.31	5.0	3	38	
CDD0320	○	0.32	5.0	3	38	
CDD0330	○	0.33	5.0	3	38	
CDD0340	○	0.34	5.0	3	38	
CDD0350	○	0.35	5.0	3	38	
CDD0360	○	0.36	5.0	3	38	
CDD0370	○	0.37	5.0	3	38	
CDD0380	○	0.38	5.0	3	38	
CDD0390	○	0.39	5.0	3	38	
CDD0400	○	0.40	6.0	3	38	
CDD0410	○	0.41	6.0	3	38	
CDD0420	○	0.42	6.0	3	38	
CDD0430	○	0.43	6.0	3	38	
CDD0440	○	0.44	6.0	3	38	

●标准库存 ○订单生产

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDD0450	○	0.45	6.0	3	38	
CDD0460	○	0.46	6.0	3	38	
CDD0470	○	0.47	6.0	3	38	
CDD0480	○	0.48	6.0	3	38	
CDD0490	○	0.49	6.0	3	38	
CDD0500	○	0.50	6.0	3	38	
CDD0510	○	0.51	6.0	3	38	
CDD0520	○	0.52	6.0	3	38	
CDD0530	○	0.53	6.0	3	38	
CDD0540	○	0.54	6.0	3	38	
CDD0550	○	0.55	6.0	3	38	
CDD0560	○	0.56	6.0	3	38	
CDD0570	○	0.57	6.0	3	38	
CDD0580	○	0.58	6.0	3	38	
CDD0590	○	0.59	6.0</			

CDD- DLC COATING MICRO DRILLS

CDD DLC涂层微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDD0888	○	0.888	8.0	3	38	
CDD0890	○	0.890	8.0	3	38	
CDD0893	○	0.893	8.0	3	38	
CDD0895	○	0.895	8.0	3	38	
CDD0897	○	0.897	8.0	3	38	
CDD0900	○	0.90	8.0	3	38	
CDD0910	○	0.91	8.0	3	38	
CDD0920	○	0.92	8.0	3	38	
CDD0930	○	0.93	8.0	3	38	
CDD0940	○	0.94	8.0	3	38	
CDD0950	○	0.95	8.0	3	38	
CDD0960	○	0.96	8.0	3	38	
CDD0970	○	0.97	8.0	3	38	
CDD0980	○	0.98	8.0	3	38	
CDD0990	○	0.99	8.0	3	38	
CDD1000	○	1.00	10.0	3	38	
CDD1010	○	1.01	10.0	3	38	
CDD1020	○	1.02	10.0	3	38	
CDD1030	○	1.030	10.0	3	38	
CDD1040	○	1.040	10.0	3	38	
CDD1050	○	1.050	10.0	3	38	
CDD1060	○	1.060	10.0	3	38	
CDD1070	○	1.070	10.0	3	38	
CDD1080	○	1.080	10.0	3	38	
CDD1083	○	1.083	10.0	3	38	
CDD1085	○	1.085	10.0	3	38	
CDD1087	○	1.087	10.0	3	38	
CDD1088	○	1.088	10.0	3	38	
CDD1090	○	1.090	10.0	3	38	
CDD1093	○	1.093	10.0	3	38	
CDD1095	○	1.095	10.0	3	38	
CDD1097	○	1.097	10.0	3	38	
CDD1100	○	1.10	10.0	3	38	
CDD1110	○	1.11	10.0	3	38	
CDD1120	○	1.12	10.0	3	38	
CDD1130	○	1.13	10.0	3	38	
CDD1140	○	1.14	10.0	3	38	
CDD1150	○	1.15	10.0	3	38	
CDD1160	○	1.16	10.0	3	38	
CDD1170	○	1.17	10.0	3	38	
CDD1180	○	1.18	10.0	3	38	
CDD1190	○	1.19	10.0	3	38	
CDD1200	○	1.20	10.0	3	38	
CDD1210	○	1.21	10.0	3	38	
CDD1220	○	1.22	10.0	3	38	
CDD1230	○	1.23	10.0	3	38	
CDD1240	○	1.24	10.0	3	38	
CDD1250	○	1.25	10.0	3	38	
CDD1255	○	1.255	10.0	3	38	
CDD1260	○	1.260	10.0	3	38	
CDD1265	○	1.265	10.0	3	38	
CDD1270	○	1.270	10.0	3	38	
CDD1280	○	1.280	10.0	3	38	
CDD1283	○	1.283	10.0	3	38	
CDD1285	○	1.285	10.0	3	38	
CDD1290	○	1.290	10.0	3	38	
CDD1300	○	1.30	10.0	3	38	
CDD1310	○	1.31	10.0	3	38	
CDD1320	○	1.32	10.0	3	38	
CDD1330	○	1.33	10.0	3	38	
CDD1340	○	1.34	10.0	3	38	
CDD1350	○	1.35	10.0	3	38	
CDD1360	○	1.36	10.0	3	38	
CDD1370	○	1.37	10.0	3	38	
CDD1380	○	1.38	10.0	3	38	
CDD1390	○	1.39	10.0	3	38	
CDD1400	○	1.40	10.0	3	38	
CDD1410	○	1.41	10.0	3	38	
CDD1420	○	1.42	10.0	3	38	
CDD1430	○	1.43	10.0	3	38	
CDD1440	○	1.44	10.0	3	38	
CDD1450	○	1.45	10.0	3	38	

●标准库存 ○订单生产

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDD1455	○	1.455	10.0	3	38	
CDD1460	○	1.460	10.0	3	38	
CDD1470	○	1.470	10.0	3	38	
CDD1480	○	1.480	10.0	3	38	
CDD1490	○	1.49	10.0	3	38	
CDD1500	○	1.50	10.0	3	38	
CDD1510	○	1.51	10.0	3	38	
CDD1520	○	1.52	10.0	3	38	
CDD1530	○	1.53	10.0	3	38	
CDD1540	○	1.54	10.0	3	38	
CDD1550	○	1.55	10.0	3	38	
CDD1560	○	1.56	10.0	3	38	
CDD1570	○	1.57	10.0	3	38	
CDD1580	○	1.58	10.0	3	38	
CDD1590	○	1.59	10.0	3	38	
CDD1600	○	1.60	12.0	3	38	
CDD1610	○	1.61	12.0	3	38	
CDD1620	○	1.62	12.0	3	38	
CDD1630	○	1.63	12.0	3	38	
CDD1640	○	1.64	12.0	3	38	
CDD1650	○	1.65	12.0	3	38	
CDD1660	○	1.66	12.0	3	38	
CDD1670	○	1.67	12.0	3	38	
CDD1680	○	1.68	12.0	3	38	
CDD1690	○	1.69	12.0	3	38	
CDD1700	○	1.70	12.0	3	38	
CDD1710	○	1.71	12.0	3	38	
CDD1720	○	1.72	12.0	3	38	
CDD1730	○	1.73	12.0	3	38	
CDD1740	○	1.74	12.0	3	38	
CDD1750	○	1.75	12.0	3	38	
CDD1760	○	1.76	12.0	3	38	
CDD1770	○	1.77	12.0	3	38	
CDD1780	○	1.78	12.0	3	38	
CDD1790	○	1.79	12.0	3	38	
CDD1800	○	1.80	12.0	3	38	
CDD1810	○	1.81	12.0	3	38	
CDD1820	○	1.82	12.0	3	38	
CDD1830	○	1.83	12.0	3	38	
CDD1840	○	1.84	12.0	3	38	
CDD1850	○	1.85	12.0	3	38	
CDD1860	○	1.86	12.0	3	38	
CDD1870	○	1.87	12.0	3	38	
CDD1880	○	1.88	12.0	3	38	
CDD1890	○	1.89	12.0	3	38	
CDD1900	○	1.90	12.0	3	38	
CDD1910	○	1.91	12.0	3	38	
CDD1920	○	1.92	12.0	3	38	
CDD1930	○	1.93	12.0	3	38	
CDD1940	○	1.94	12.0	3	38	
CDD1950	○	1.95	12.0	3	38	
CDD1960	○	1.96	12.0	3	38	
CDD1970	○	1.97	12.0	3	38	
CDD1980	○	1.98	12.0	3	38	
CDD1990	○	1.99	12.0	3	38	
CDD2000	○	2.00	12.0	3	38	
CDD2010	○	2.01	12.0	3	38	
CDD2020	○	2.02	12.0	3	38	
CDD2030	○	2.03	12.0	3	38	
CDD2040	○	2.04	12.0	3	38	
CDD2050	○	2.05	12.0	3	38	
CDD2060	○	2.06	12.0	3	38	
CDD2070	○	2.07	12.0	3	38	
CDD2080	○	2.08	12.0	3	38	
CDD2090	○	2.09	12.0	3	38	
CDD2100	○	2.10	12.0	3	38	
CDD2110	○	2.11	12.0	3	38	
CDD2120	○	2.12	12.0	3	38	
CDD2130	○	2.13	12.0	3	38	
CDD2140	○	2.14	12.0	3	38	
CDD2150	○	2.15	12.0	3	38	
CDD2160	○	2.16	12.0	3	38	

●标准库存 ○订单生产

CDD- DLC COATING MICRO DRILLS

CDD DLC涂层微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDD2170	○	2.17	12.0	3	38	
CDD2180	○	2.18	12.0	3	38	
CDD2190	○	2.19	12.0	3	38	
CDD2200	○	2.20	12.0	3	38	
CDD2210	○	2.21	12.0	3	38	
CDD2220	○	2.22	12.0	3	38	
CDD2230	○	2.23	12.0	3	38	
CDD2240	○	2.24	12.0	3	38	
CDD2250	○	2.25	12.0	3	38	
CDD2260	○	2.26	12.0	3	38	
CDD2270	○	2.27	12.0	3	38	
CDD2280	○	2.28	12.0	3	38	
CDD2290	○	2.29	12.0	3	38	
CDD2300	○	2.30	12.0	3	38	
CDD2310	○	2.31	12.0	3	38	
CDD2320	○	2.32	12.0	3	38	
CDD2330	○	2.33	12.0	3	38	
CDD2340	○	2.34	12.0	3	38	
CDD2350	○	2.35	12.0	3	38	
CDD2360	○	2.36	12.0	3	38	
CDD2370	○	2.37	12.0	3	38	
CDD2380	○	2.38	12.0	3	38	
CDD2390	○	2.39	12.0	3	38	
CDD2400	○	2.40	12.0	3	38	
CDD2410	○	2.41	12.0	3	38	
CDD2420	○	2.42	12.0	3	38	
CDD2430	○	2.43	12.0	3	38	
CDD2440	○	2.44	12.0	3	38	
CDD2450	○	2.45	12.0	3	38	
CDD2460	○	2.46	12.0	3	38	
CDD2470	○	2.47	12.0	3	38	
CDD2480	○	2.48	12.0	3	38	
CDD2490	○	2.49	12.0	3	38	
CDD2500	○	2.50	12.0	3	38	
CDD2510	○	2.51	12.0	3	38	
CDD2520	○	2.52	12.0	3	38	
CDD2530	○	2.53	12.0	3	38	
CDD2540	○	2.54	12.0	3	38	
CDD2550	○	2.55	12.0	3	38	
CDD2560	○	2.56	12.0	3	38	
CDD2570	○	2.57	12.0	3	38	
CDD2580	○	2.58	12.0	3	38	
CDD2590	○	2.59	12.0	3	38	

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

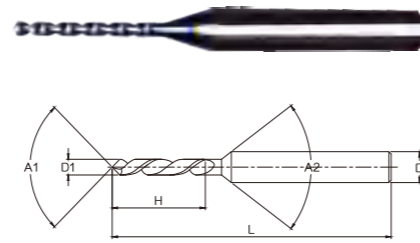
被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不銹鋼 Stainless Steel			鋁合金 Aluminum Alloy			銅合金 Copper Alloy			工程塑膠、樹脂 Plastics Resin		
	直徑 Drill Dia. mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm
0.04-0.09	10000~20000	10~30	0.001~0.0015	10000~20000	10~30	0.001~0.0015	10000~20000	10~20	0.001~0.0015	10000~20000	5~20	0.0005~0.001	10000~30000	10~90	0.001~0.003	10000~20000	20~100				

CDDL- DLC COATING LONG FLUTE MICRO DRILLS

CDDL DLC涂层加长微型钻头



- 直径范围 Tool dia: D0.04-D3.0mm
- 直径公差 Dia tolerance: 0,-0.003mm
- 采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide
- 超精公差管控, 优秀的切削力与排屑性
High precision tolerance control, excellent cutting force and chip removal
- 特别适于工程塑胶、一般钢等软体材料精密的孔加工
Suitable for precision hole machining of soft materials such as engineering plastics and ordinary steel
- DLC涂层, 增加排屑效果 DLC Coating, Increase chip removal effect



加工材料 Work Material																			
碳素钢 S45C S55C Carbon Steel	合金钢 SK5C SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC			铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDDL0040	○	0.040	0.6	3	38	
CDDL0045	○	0.045	0.7	3	38	
CDDL0050	○	0.050	0.9	3	38	
CDDL0055	○	0.055	0.9	3	38	
CDDL0060	○	0.060	0.9	3	38	
CDDL0065	○	0.065	0.9	3	38	
CDDL0070	○	0.070	1.2	3	38	
CDDL0075	○	0.075	1.2	3	38	
CDDL0080	○	0.080	1.2	3	38	
CDDL0085	○	0.085	1.2	3	38	
CDDL0090	○	0.090	1.2	3	38	
CDDL0095	○	0.095	1.2	3	38	
CDDL0100	○	0.10	2.0	3	38	
CDDL0110	○	0.11	2.0	3	38	
CDDL0120	○	0.12	2.0	3	38	
CDDL0130	○	0.13	3.0	3	38	
CDDL0140	○	0.14	3.0	3	38	
CDDL0150	○	0.15	3.0	3	38	
CDDL0160	○	0.16	4.0	3	38	
CDDL0170	○	0.17	4.0	3	38	
CDDL0180	○	0.18	4.0	3	38	
CDDL0190	○	0.19	4.0	3	38	
CDDL0200	○	0.20	4.0	3	38	
CDDL0210	○	0.21	5.0	3	38	
CDDL0220	○	0.22	5.0	3	38	
CDDL0230	○	0.23	5.0	3	38	
CDDL0240	○	0.24	5.0	3	38	
CDDL0250	○	0.25	5.0	3	38	
CDDL0260	○	0.26	6.0	3	38	
CDDL0270	○	0.27	6.0	3	38	
CDDL0280	○	0.28	6.0	3	38	
CDDL0290	○	0.29	6.0	3	38	
CDDL0300	○	0.30	6.0	3	38	
CDDL0310	○	0.31	6.0	3	38	
CDDL0320	○	0.32	6.0	3	38	
CDDL0330	○	0.33	6.0	3	38	
CDDL0340	○	0.34	6.0	3	38	
CDDL0350	○	0.35	6.0	3	38	
CDDL0360	○	0.36	6.0	3	38	
CDDL0370	○	0.37	6.0	3	38	
CDDL0380	○	0.38	6.0	3	38	
CDDL0390	○	0.39	6.0	3	38	
CDDL0400	○	0.40	6.0	3	38	
CDDL0410	○	0.41	7.0	3	38	
CDDL0420	○	0.42	7.0	3	38	
CDDL0430	○	0.43	7.0	3	38	
CDDL0440	○	0.44	7.0	3	38	

●标准库存 ○订单生产

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDDL0450	○	0.45	7.0	3	38	
CDDL0460	○	0.46	7.0	3	38	
CDDL0470	○	0.47	7.0	3	38	
CDDL0480	○	0.48	7.0	3	38	
CDDL0490	○	0.49	7.0	3	38	
CDDL0500	○	0.50	7.0	3	38	
CDDL0510	○	0.51	9.0	3	38	
CDDL0520	○	0.52	9.0	3	38	
CDDL0530	○	0.53	9.0	3	38	
CDDL0540	○	0.54	9.0	3	38	
CDDL0550	○	0.55	9.0	3	38	
CDDL0560	○	0.56	9.0	3	38	
CDDL0570	○	0.57	9.0	3	38	
CDDL0580	○	0.58	9.0	3	38	
CDDL0590	○	0.59	9.0	3	38	
CDDL0600	○	0.60	9.0	3	38	
CDDL0610	○	0.61	9.0	3	38	
CDDL0620	○	0.62	9.0	3	38	
CDDL0630	○	0.63	9.0	3	38	
CDDL0640	○	0.64	9.0	3	38	
CDDL0650	○	0.65	9.0	3	38	
CDDL0660	○	0.66	9.0	3	38	
CDDL0670	○	0.67	9.0	3	38	
CDDL0680	○	0.68	9.0	3	38	
CDDL0690	○	0.69	9.0	3	38	
CDDL0700	○	0.7	9.0	3	38	
CDDL0710	○	0.71	10.0	3	38	
CDDL0720	○	0.72	10.0	3	38	
CDDL0730	○	0.73	10.0	3	38	
CDDL0740	○	0.74	10.0	3	38	
CDDL0750	○	0.75	10.0	3	38	
CDDL0760	○	0.76	10.0	3	38	
CDDL0770	○	0.77	10.0	3	38	
CDDL0780	○	0.78	10.0	3	38	
CDDL0790	○	0.79	10.0	3	38	
CDDL0800	○	0.80	10.0	3	38	
CDDL0810	○	0.81	10.0	3	38	
CDDL0820	○	0.82	10.0	3	38	
CDDL0830	○	0.83	10.0	3	38	
CDDL0840	○	0.84	10.0	3	38	
CDDL0850	○	0.85	10.0	3	38	
CDDL0860	○	0.86	10.0	3	38	
CDDL0870	○	0.87	10.0	3	38	
CDDL0880	○	0.88	10.0	3	38	
CDDL0890	○	0.89	10.0	3	38	
CDDL0900	○	0.9	10.0	3	38	
CDDL0910	○	0.91	10.0	3	38	

●标准库存 ○订单生产

CDDL- DLC COATING LONG FLUTE MICRO DRILLS

CDDL DLC涂层加长微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDDL0920	○	0.92	10.0	3	38	
CDDL0930	○	0.93	10.0	3	38	
CDDL0940	○	0.94	10.0	3	38	
CDDL0950	○	0.95	10.0	3	38	
CDDL0960	○	0.96	10.0	3	38	
CDDL0970	○	0.97	10.0	3	38	
CDDL0980	○	0.98	10.0	3	38	
CDDL0990	○	0.99	10.0	3	38	
CDDL1000	○	1.0	12.0	3	50	
CDDL1010	○	1.01	12.0	3	50	
CDDL1020	○	1.02	12.0	3	50	
CDDL1030	○	1.03	12.0	3	50	
CDDL1040	○	1.04	12.0	3	50	
CDDL1050	○	1.05	12.0	3	50	
CDDL1060	○	1.06	12.0	3	50	
CDDL1070	○	1.07	12.0	3	50	
CDDL1080	○	1.08	12.0	3	50	
CDDL1090	○	1.09	12.0	3	50	
CDDL1100	○	1.1	12.0	3	50	
CDDL1110	○	1.11	12.0	3	50	
CDDL1120	○	1.12	12.0	3	50	
CDDL1130	○	1.13	12.0	3	50	
CDDL1140	○	1.14	12.0	3	50	
CDDL1150	○	1.15	12.0	3	50	
CDDL1160	○	1.16	12.0	3	50	
CDDL1170	○	1.17	12.0	3	50	
CDDL1180	○	1.18	12.0	3	50	
CDDL1190	○	1.19	12.0	3	50	
CDDL1200	○	1.2	15.0	3	50	
CDDL1210	○	1.21	15.0	3	50	
CDDL1220	○	1.22	15.0	3	50	
CDDL1230	○	1.23	15.0	3	50	
CDDL1240	○	1.24	15.0	3	50	
CDDL1250	○	1.25	15.0	3	50	
CDDL1260	○	1.26	15.0	3	50	
CDDL1270	○	1.27	15.0	3	50	
CDDL1280	○	1.28	15.0	3	50	
CDDL1290	○	1.29	15.0	3	50	
CDDL1300	○	1.3	15.0	3	50	
CDDL1310	○	1.31	15.0	3	50	
CDDL1320	○	1.32	15.0	3	50	
CDDL1330	○	1.33	15.0	3	50	
CDDL1340	○	1.34	15.0	3	50	
CDDL1350	○	1.35	15.0	3	50	
CDDL1360	○	1.36	15.0	3	50	
CDDL1370	○	1.37	15.0	3	50	
CDDL1380	○	1.38	15.0	3	50	
CDDL1390	○	1.39	15.0	3	50	
CDDL1400	○	1.4	15.0	3	50	
CDDL1410	○	1.41	15.0	3	50	
CDDL1420	○	1.42	15.0	3	50	
CDDL1430	○	1.43	15.0	3	50	
CDDL1440	○	1.44	15.0	3	50	
CDDL1450	○	1.45	15.0	3	50	
CDDL1460	○	1.46	15.0	3	50	
CDDL1470	○	1.47	15.0	3	50	
CDDL1480	○	1.48	15.0	3	50	
CDDL1490	○	1.49	15.0	3	50	
CDDL1500	○	1.5	20.0	3	50	
CDDL1510	○	1.51	20.0	3	50	
CDDL1520	○	1.52	20.0	3	50	
CDDL1530	○	1.53	20.0	3	50	
CDDL1540	○	1.54	20.0	3	50	
CDDL1550	○	1.55	20.0	3	50	
CDDL1560	○	1.56	20.0	3	50	
CDDL1570	○	1.57	20.0	3	50	
CDDL1580	○	1.58	20.0	3	50	
CDDL1590	○	1.59	20.0	3	50	
CDDL1600	○	1.6	20.0	3	50	
CDDL1610	○	1.61	20.0	3	50	
CDDL1620	○	1.62	20.0	3	50	
CDDL1630	○	1.63	20.0	3	50	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDDL1640	○	1.64	20.0	3	50	
CDDL1650	○	1.65	20.0	3	50	
CDDL1660	○	1.66	20.0	3	50	
CDDL1670	○	1.67	20.0	3	50	
CDDL1680	○	1.68	20.0	3	50	
CDDL1690	○	1.69	20.0	3	50	
CDDL1700	○	1.70	20.0	3	50	
CDDL1710	○	1.71	20.0	3	50	
CDDL1720	○	1.72	20.0	3	50	
CDDL1730	○	1.73	20.0	3	50	
CDDL1740	○	1.74	20.0	3	50	
CDDL1750	○	1.75	20.0	3	50	
CDDL1760	○	1.76	20.0	3	50	
CDDL1770	○	1.77	20.0	3	50	
CDDL1780	○	1.78	20.0	3	50	
CDDL1790	○	1.79	20.0	3	50	
CDDL1800	○	1.80	20.0	3	50	
CDDL1810	○	1.81	20.0	3	50	
CDDL1820	○	1.82	20.0	3	50	
CDDL1830	○	1.83	20.0	3	50	
CDDL1840	○	1.84	20.0	3	50	
CDDL1850	○	1.85	20.0	3	50	
CDDL1860	○	1.86	20.0			

CDDL- DLC COATING LONG FLUTE MICRO DRILLS

CDDL DLC涂层加长微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDDL2360	○	2.36	25.0	3	60	
CDDL2370	○	2.37	25.0	3	60	
CDDL2380	○	2.38	25.0	3	60	
CDDL2390	○	2.39	25.0	3	60	
CDDL2400	○	2.40	25.0	3	60	
CDDL2410	○	2.41	25.0	3	60	
CDDL2420	○	2.42	25.0	3	60	
CDDL2430	○	2.43	25.0	3	60	
CDDL2440	○	2.44	25.0	3	60	
CDDL2450	○	2.45	25.0	3	60	
CDDL2460	○	2.46	25.0	3	60	
CDDL2470	○	2.47	25.0	3	60	
CDDL2480	○	2.48	25.0	3	60	
CDDL2490	○	2.49	25.0	3	60	
CDDL2500	○	2.50	25.0	3	60	
CDDL2510	○	2.51	25.0	3	60	
CDDL2520	○	2.52	25.0	3	60	
CDDL2530	○	2.53	25.0	3	60	
CDDL2540	○	2.54	25.0	3	60	
CDDL2550	○	2.55	25.0	3	60	
CDDL2560	○	2.56	25.0	3	60	
CDDL2570	○	2.57	25.0	3	60	
CDDL2580	○	2.58	25.0	3	60	
CDDL2590	○	2.59	25.0	3	60	
CDDL2600	○	2.60	25.0	3	60	
CDDL2610	○	2.61	25.0	3	60	
CDDL2620	○	2.62	25.0	3	60	
CDDL2630	○	2.63	25.0	3	60	
CDDL2640	○	2.64	25.0	3	60	
CDDL2650	○	2.65	25.0	3	60	
CDDL2660	○	2.66	25.0	3	60	
CDDL2670	○	2.67	25.0	3	60	
CDDL2680	○	2.68	25.0	3	60	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CDDL2690	○	2.69	25.0	3	60	
CDDL2700	○	2.70	25.0	3	60	
CDDL2710	○	2.71	25.0	3	60	
CDDL2720	○	2.72	25.0	3	60	
CDDL2730	○	2.73	25.0	3	60	
CDDL2740	○	2.74	25.0	3	60	
CDDL2750	○	2.75	25.0	3	60	
CDDL2760	○	2.76	25.0	3	60	
CDDL2770	○	2.77	25.0	3	60	
CDDL2780	○	2.78	25.0	3	60	
CDDL2790	○	2.79	25.0	3	60	
CDDL2800	○	2.80	25.0	3	60	
CDDL2810	○	2.81	25.0	3	60	
CDDL2820	○	2.82	25.0	3	60	
CDDL2830	○	2.83	25.0	3	60	
CDDL2840	○	2.84	25.0	3	60	
CDDL2850	○	2.85	25.0	3	60	
CDDL2860	○	2.86	25.0	3	60	
CDDL2870	○	2.87	25.0	3	60	
CDDL2880	○	2.88	25.0	3	60	
CDDL2890	○	2.89	25.0	3	60	
CDDL2900	○	2.90	25.0	3	60	
CDDL2910	○	2.91	25.0	3	60	
CDDL2920	○	2.92	25.0	3	60	
CDDL2930	○	2.93	25.0	3	60	
CDDL2940	○	2.94	25.0	3	60	
CDDL2950	○	2.95	25.0	3	60	
CDDL2960	○	2.96	25.0	3	60	
CDDL2970	○	2.97	25.0	3	60	
CDDL2980	○	2.98	25.0	3	60	
CDDL2990	○	2.99	25.0	3	60	
CDDL3000	○	3.00	25.0	3	60	

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不銹鋼 Stainless Steel			鋁合金 Aluminum Alloy			銅合金 Copper Alloy			工程塑膠、樹脂 Plastics Resin		
	直徑 Drill Dia. mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm
0.04-0.09	10000	10~	0.001~	10000	10~	0.001~	10000	10~	0.001	10000	5~	0.0005~	10000	10~	0.001~	10000	20~	0.002~	10000	10~	0.001~
	20000	30	0.0015	20000	30	0.0015	20000	20	0.001	20000	20	0.001	30000	90	0.003	20000	100	0.005	20000	60	0.003
0.1-0.29	19000	38~	0.002~	16000	22~	0.0014~	13000	13~	0.001	10000	5	0.0005~	22200	110~	0.005~	16000	32~	0.002~	20000	100~	0.005~
	13000	130	0.01	11000	75	0.007	8800	35	0.004	5000	0.001	16500	330	0.02	11000	88	0.008	15000	150	0.01	
0.3-0.49	13000	130	0.01~	11000	75~	0.007~	8800	26~	0.003~	5000	5~	0.001~	16500	330~	0.02~	11000	88~	0.008~	15000	150~	0.01~
	12000	240	0.02	9700	95	0.01	6500	32	0.005	4500	22	0.005	13000	520	0.04	11500	170	0.015	15000	300	0.02
0.5-0.99	12000	240	0.02~	9700	95~	0.01~	6500	32~	0.005~	4500	22~	0.005~	13000	520~	0.04~	11500	170~	0.015~	15000	150~	0.02~
	9600	380	0.04	6400	128	0.02	4800	48	0.01	3200	32	0.01	12700	760	0.06	9600	380	0.04	10000	400	0.04
1.0-1.99	9600	290~	0.03~	6400	128~	0.02~	3100	31~	0.01~	3200	32~	0.01~	12700	760	0.06~	9600	380	0.04~	10000	500	0.05~
	6400	380	0.06	4000	200	0.05	2400	72	0.03	2400	72	0.03	6400	0.12	4800	0.08	6000	0.07			
2.0-3.0	6400	440	0.07~	4000	200~	0.05~	2400	48~	0.02~	2400	72~	0.03~	6400	760~	0.12~	4800	380~	0.08~	6000	500	0.07~
	4200		0.1	3200	260	0.08	1600	64	0.04	1800	90	0.05	5300	1060	0.2	4200	630	0.15	5000		0.1

CHD- MULTI-FUNCTION MICRO DRILLS

CHD 多功能微型钻头



- 直径范围 Tool dia: D0.04-D3.0mm
- 直径公差 Dia tolerance: 0,-0.005mm
D1≤1.0mm钻尖角度为118°
D1>1.0mm钻尖角度为135°

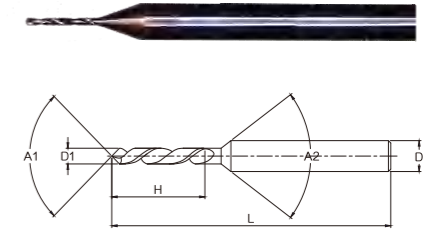
•采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide

•新开发复合涂层, 增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit

•特别适于不锈钢, 高温合金等材料的孔加工

Suitable for hole machining of stainless steel, heat resistant alloy and other materials



加工材料 Work Material

碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
-------------------------------------	-------------------------------------	---	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

○最适合 ○适合

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHD0040	○	0.040	0.40	3	38	
CHD0045	○	0.045	0.45	3	38	
CHD0050	○	0.050	0.50	3	38	
CHD0055	○	0.055	0.55	3	38	
CHD0060	○	0.060	0.60	3	38	
CHD0065	○	0.065	0.65	3	38	
CHD0070	○	0.070	0.70	3	38	
CHD0075	○	0.075	0.75	3	38	
CHD0080	○	0.080	0.80	3	38	
CHD0085	○	0.085	0.85	3	38	
CHD0090	○	0.090	0.90	3	38	
CHD0095	○	0.095	0.95	3	38	
CHD0100	○	0.10	1.5	3	38	
CHD0110	○	0.11	1.5	3	38	
CHD0120	○	0.12	2.5	3	38	
CHD0130	○	0.13	2.5	3	38	
CHD0140	○	0.14	2.5	3	38	
CHD0150	○	0.15	2.5	3	38	
CHD0160	○	0.16	2.5	3	38	
CHD0170	○	0.17	2.5	3	38	
CHD0180	○	0.18	2.5	3	38	
CHD0190	○	0.19	2.5	3	38	
CHD0200	○	0.20	3.5	3	38	
CHD0210	○	0.21	3.5	3	38	
CHD0220	○	0.22	3.5	3	38	
CHD0230	○	0.23	3.5	3	38	
CHD0240	○	0.24	3.5	3	38	
CHD0250	○	0.25	3.5	3	38	
CHD0260	○	0.26	3.5	3	38	
CHD0270	○	0.27	3.5	3	38	
CHD0280	○	0.28	3.5	3	38	
CHD0290	○	0.29	3.5	3	38	
CHD0300	○	0.30	5.0	3	38	
CHD0310	○	0.31	5.0	3	38	
CHD0320	○	0.32	5.0	3	38	
CHD0330	○	0.33	5.0	3	38	
CHD0340	○	0.34	5.0	3	38	
CHD0350	○	0.35	5.0	3	38	
CHD0360	○	0.36	5.0	3	38	
CHD0370	○	0.37	5.0	3	38	
CHD0380	○	0.38	5.0	3	38	
CHD0390	○	0.39	5.0	3	38	
CHD0400	○	0.40	6.0	3	38	
CHD0410	○	0.41	6.0	3	38	
CHD0420	○	0.42	6.0	3	38	
CHD0430	○	0.43	6.0	3	38	
CHD0440	○	0.44	6.0	3	38	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHD0450	○	0.45	6.0	3	38	
CHD0460	○	0.46	6.0	3	38	
CHD0470	○	0.47	6.0	3	38	
CHD0480	○	0.48	6.0	3	38	
CHD0490	○	0.49	6.0	3	38	
CHD0500	○	0.50	6.0	3	38	
CHD0510	○	0.51	6.0	3	38	
CHD0520	○	0.52	6.0	3	38	
CHD0530	○	0.53	6.0	3	38	
CHD0540	○	0.54	6.0	3	38	
CHD0550	○	0.55	6.0	3	38	
CHD0560	○	0.56	6.0	3	38	
CHD0570	○	0.57	6.0	3	38	
CHD0580	○	0.58	6.0	3	38	
CHD0590	○	0.59	6.0	3	38	
CHD0600	○	0.60	7.0	3	38	
CHD0610	○	0.61	7.0	3	38	
CHD0620	○	0.62	7.0	3	38	
CHD0630	○	0.63	7.0	3	3	

CHD- MULTI-FUNCTION MICRO DRILLS

CHD 多功能微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHD0888	○	0.888	8.0	3	38	
CHD0890	○	0.890	8.0	3	38	
CHD0893	○	0.893	8.0	3	38	
CHD0895	○	0.895	8.0	3	38	
CHD0897	○	0.897	8.0	3	38	
CHD0900	○	0.90	8.0	3	38	
CHD0910	○	0.91	8.0	3	38	
CHD0920	○	0.92	8.0	3	38	
CHD0930	○	0.93	8.0	3	38	
CHD0940	○	0.94	8.0	3	38	
CHD0950	○	0.95	8.0	3	38	
CHD0960	○	0.96	8.0	3	38	
CHD0970	○	0.97	8.0	3	38	
CHD0980	○	0.98	8.0	3	38	
CHD0990	○	0.99	8.0	3	38	
CHD1000	○	1.00	10.0	3	38	
CHD1010	○	1.01	10.0	3	38	
CHD1020	○	1.02	10.0	3	38	
CHD1030	○	1.030	10.0	3	38	
CHD1040	○	1.040	10.0	3	38	
CHD1050	○	1.050	10.0	3	38	
CHD1060	○	1.060	10.0	3	38	
CHD1070	○	1.070	10.0	3	38	
CHD1080	○	1.080	10.0	3	38	
CHD1083	○	1.083	10.0	3	38	
CHD1085	○	1.085	10.0	3	38	
CHD1087	○	1.087	10.0	3	38	
CHD1088	○	1.088	10.0	3	38	
CHD1090	○	1.090	10.0	3	38	
CHD1093	○	1.093	10.0	3	38	
CHD1095	○	1.095	10.0	3	38	
CHD1097	○	1.097	10.0	3	38	
CHD1100	○	1.10	10.0	3	38	
CHD1110	○	1.11	10.0	3	38	
CHD1120	○	1.12	10.0	3	38	
CHD1130	○	1.13	10.0	3	38	
CHD1140	○	1.14	10.0	3	38	
CHD1150	○	1.15	10.0	3	38	
CHD1160	○	1.16	10.0	3	38	
CHD1170	○	1.17	10.0	3	38	
CHD1180	○	1.18	10.0	3	38	
CHD1190	○	1.19	10.0	3	38	
CHD1200	○	1.20	10.0	3	38	
CHD1210	○	1.21	10.0	3	38	
CHD1220	○	1.22	10.0	3	38	
CHD1230	○	1.23	10.0	3	38	
CHD1240	○	1.24	10.0	3	38	
CHD1250	○	1.25	10.0	3	38	
CHD1255	○	1.255	10.0	3	38	
CHD1260	○	1.260	10.0	3	38	
CHD1265	○	1.265	10.0	3	38	
CHD1270	○	1.270	10.0	3	38	
CHD1280	○	1.280	10.0	3	38	
CHD1283	○	1.283	10.0	3	38	
CHD1285	○	1.285	10.0	3	38	
CHD1290	○	1.290	10.0	3	38	
CHD1300	○	1.30	10.0	3	38	
CHD1310	○	1.31	10.0	3	38	
CHD1320	○	1.32	10.0	3	38	
CHD1330	○	1.33	10.0	3	38	
CHD1340	○	1.34	10.0	3	38	
CHD1350	○	1.35	10.0	3	38	
CHD1360	○	1.36	10.0	3	38	
CHD1370	○	1.37	10.0	3	38	
CHD1380	○	1.38	10.0	3	38	
CHD1390	○	1.39	10.0	3	38	
CH1400	○	1.40	10.0	3	38	
CHD1410	○	1.41	10.0	3	38	
CHD1420	○	1.42	10.0	3	38	
CHD1430	○	1.43	10.0	3	38	
CHD1440	○	1.44	10.0	3	38	
CHD1450	○	1.45	10.0	3	38	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHD1455	○	1.455	10.0	3	38	
CHD1460	○	1.460	10.0	3	38	
CHD1470	○	1.470	10.0	3	38	
CHD1480	○	1.480	10.0	3	38	
CHD1490	○	1.49	10.0	3	38	
CHD1500	○	1.50	10.0	3	38	
CHD1510	○	1.51	10.0	3	38	
CHD1520	○	1.52	10.0	3	38	
CHD1530	○	1.53	10.0	3	38	
CHD1540	○	1.54	10.0	3	38	
CHD1550	○	1.55	10.0	3	38	
CHD1560	○	1.56	10.0	3	38	
CHD1570	○	1.57	10.0	3	38	
CHD1580	○	1.58	10.0	3	38	
CHD1590	○	1.59	10.0	3	38	
CHD1600	○	1.60	12.0	3	38	
CHD1610	○	1.61	12.0	3	38	
CHD1620	○	1.62	12.0	3	38	
CHD1630	○	1.63	12.0	3	38	
CHD1640	○	1.64	12.0	3	38	
CHD1650	○	1.65	12.0	3	38	
CHD1660	○	1.66	12.0	3	38	
CHD1670	○	1.67	12.0	3	38	
CHD1680	○	1.68	12.0	3	38	
CHD1690	○	1.69	12.0	3	38	
CHD1700	○	1.70	12.0	3	38	
CHD1710	○	1.71	12.0	3	38	
CHD1720	○	1.72	12.0	3	38	
CHD1730	○	1.73	12.0	3	38	
CHD1740	○	1.74	12.0	3	38	
CHD1750	○	1.75	12.0	3	38	
CHD1760	○	1.76	12.0	3	38	
CHD1770	○	1.77	12.0	3	38	
CHD1780	○	1.78	12.0	3	38	
CHD1790	○	1.79	12.0	3	38	
CHD1800	○	1.80	12.0	3	38	
CHD1810	○	1.81	12.0	3	38	
CHD1820	○	1.82	12.0	3	38	
CHD1830	○	1.83	12.0	3	38	
CHD1840	○	1.84	12.0	3	38	
CHD1850	○	1.85	12.0	3	38	
CHD1860	○	1.86	12.0	3	38	
CHD1870	○	1.87	12.0	3	38	
CHD1880	○	1.88	12.0	3	38	
CHD1890	○	1.89	12.0	3	38	
CHD1900	○	1.90	12.0	3	38	
CHD1910	○	1.91	12.0	3	38	
CHD1920	○	1.92	12.0	3	38	
CHD1930	○	1.93	12.0	3	38	
CHD1940	○	1.94	12.0	3	38	
CHD1950	○	1.95	12.0	3	38	
CHD1960	○	1.96	12.0	3	38	
CHD1970	○	1.97	12.0	3	38	
CHD1980	○	1.98	12.0	3	38	
CHD1990	○	1.99	12.0	3	38	
CHD2000	○	2.00	12.0	3	38	
CHD2010	○	2.01	12.0	3	38	
CHD2020	○	2.02	12.0	3	38	
CHD2030	○	2.03	12.0	3	38	
CHD2040	○	2.04	12.0	3	38	
CHD2050	○	2.05	12.0	3	38	
CHD2060	○	2.06	12.0	3	38	
CHD2070	○	2.07	12.0	3	38	
CHD2080	○	2.08	12.0	3	38	
CHD2090	○	2.09	12.0	3	38	
CHD2100	○	2.10	12.0	3	38	
CHD2110	○	2.11	12.0	3	38	
CHD2120	○	2.12	12.0	3	38	
CHD2130	○	2.13	12.0	3	38	
CHD2140	○	2.14	12.0	3	38	
CHD2150	○	2.15	12.0	3	38	
CHD2160	○	2.16	12.0	3	38	

●标准库存 ○订单生产

CHD- MULTI-FUNCTION MICRO DRILLS

CHD 多功能微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHD2170	○	2.17	12.0	3	38	
CHD2180	○	2.18	12.0	3	38	
CHD2190	○	2.19	12.0	3	38	
CHD2200	○	2.20	12.0	3	38	
CHD2210	○	2.21	12.0	3	38	
CHD2220	○	2.22	12.0	3	38	
CHD2230	○	2.23	12.0	3	38	
CHD2240	○	2.24	12.0	3	38	
CHD2250	○	2.25	12.0	3	38	
CHD2260	○	2.26	12.0	3	38	
CHD2270	○	2.27	12.0	3	38	
CHD2280	○	2.28	12.0	3	38	
CHD2290	○	2.29	12.0	3	38	
CHD2300	○	2.30	12.0	3	38	
CHD2310	○	2.31	12.0	3	38	
CHD2320	○	2.32	12.0	3	38	
CHD2330	○	2.33	12.0	3	38	
CHD2340	○	2.34	12.0	3	38	
CHD2350	○	2.35	12.0	3	38	
CHD2360	○	2.36	12.0	3	38	
CHD2370	○	2.37	12.0	3	38	
CHD2380	○	2.38	12.0	3	38	
CHD2390	○	2.39	12.0	3	38	
CHD2400	○	2.40	12.0	3	38	
CHD2410	○	2.41	12.0	3	38	
CHD2420	○	2.42	12.0	3	38	
CHD2430	○	2.43	12.0	3	38	
CHD2440	○	2.44	12.0	3	38	
CHD2450	○	2.45	12.0	3	38	
CHD2460	○	2.46	12.0	3	38	
CHD2470	○	2.47	12.0	3	38	
CHD2480	○	2.48	12.0	3	38	
CHD2490	○	2.49	12.0	3	38	
CHD2500	○	2.50	12.0	3	38	
CHD2510	○	2.51	12.0	3	38	
CHD2520	○	2.52	12.0	3	38	
CHD2530	○	2.53	12.0	3	38	
CHD2540	○	2.54	12.0	3	38	
CHD2550	○	2.55	12.0	3	38	
CHD2560	○	2.56	12.0	3	38	
CHD2570	○	2.57	12.0	3	38	
CHD2580	○	2.58	12.0	3	38	
CHD2590	○	2.59	12.0	3	38	

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不銹鋼 Stainless Steel			耐熱合金 Heat-resisting Alloy			鈷鎳合金 Cobalt Nickel Alloy			鈦合金 Titanium Alloy		
	直徑 Drill Dia. mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	進給量 Q mm
0.04-0.09	10000-	10-	0.0																		

CHDL- MULTI-FUNCTION LONG FLUTE MICRO DRILLS

CHDL 多功能加长微型钻头



- 直径范围 Tool dia: D0.04-D3.0mm
- 直径公差 Dia tolerance: 0,-0.005mm
D1≤1.0mm钻尖角度为118°
D1>1.0mm钻尖角度为135°

- 采用超微细颗粒硬质合金圆棒

Micro Grain Tungsten Carbide

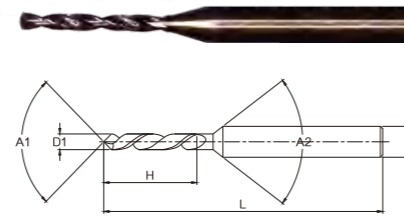
- 新开发复合涂层, 增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit

- 特别适于不锈钢, 高温合金等材料的孔加工

Suitable for hole machining of stainless steel, heat resistant alloy and other materials

加工材料 Work Material														
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC			铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 石墨 氧化锆 单晶硅 陶瓷 碳纤维 Bakelite Graphite Zirconium Silicon Ceramic Carbon Fiber



单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHDL0040	○	0.040	0.6	3	38	
CHDL0045	○	0.045	0.7	3	38	
CHDL0050	○	0.050	0.9	3	38	
CHDL0055	○	0.055	0.9	3	38	
CHDL0060	○	0.060	0.9	3	38	
CHDL0065	○	0.065	0.9	3	38	
CHDL0070	○	0.070	1.2	3	38	
CHDL0075	○	0.075	1.2	3	38	
CHDL0080	○	0.080	1.2	3	38	
CHDL0085	○	0.085	1.2	3	38	
CHDL0090	○	0.090	1.2	3	38	
CHDL0095	○	0.095	1.2	3	38	
CHDL0100	○	0.10	2.0	3	38	
CHDL0110	○	0.11	2.0	3	38	
CHDL0120	○	0.12	2.0	3	38	
CHDL0130	○	0.13	3.0	3	38	
CHDL0140	○	0.14	3.0	3	38	
CHDL0150	○	0.15	3.0	3	38	
CHDL0160	○	0.16	4.0	3	38	
CHDL0170	○	0.17	4.0	3	38	
CHDL0180	○	0.18	4.0	3	38	
CHDL0190	○	0.19	4.0	3	38	
CHDL0200	○	0.20	4.0	3	38	
CHDL0210	○	0.21	5.0	3	38	
CHDL0220	○	0.22	5.0	3	38	
CHDL0230	○	0.23	5.0	3	38	
CHDL0240	○	0.24	5.0	3	38	
CHDL0250	○	0.25	5.0	3	38	
CHDL0260	○	0.26	6.0	3	38	
CHDL0270	○	0.27	6.0	3	38	
CHDL0280	○	0.28	6.0	3	38	
CHDL0290	○	0.29	6.0	3	38	
CHDL0300	○	0.30	6.0	3	38	
CHDL0310	○	0.31	6.0	3	38	
CHDL0320	○	0.32	6.0	3	38	
CHDL0330	○	0.33	6.0	3	38	
CHDL0340	○	0.34	6.0	3	38	
CHDL0350	○	0.35	6.0	3	38	
CHDL0360	○	0.36	6.0	3	38	
CHDL0370	○	0.37	6.0	3	38	
CHDL0380	○	0.38	6.0	3	38	
CHDL0390	○	0.39	6.0	3	38	
CHDL0400	○	0.40	6.0	3	38	
CHDL0410	○	0.41	7.0	3	38	
CHDL0420	○	0.42	7.0	3	38	
CHDL0430	○	0.43	7.0	3	38	
CHDL0440	○	0.44	7.0	3	38	

●标准库存 ○订单生产

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHDL0450	○	0.45	7.0	3	38	
CHDL0460	○	0.46	7.0	3	38	
CHDL0470	○	0.47	7.0	3	38	
CHDL0480	○	0.48	7.0	3	38	
CHDL0490	○	0.49	7.0	3	38	
CHDL0500	○	0.50	7.0	3	38	
CHDL0510	○	0.51	9.0	3	38	
CHDL0520	○	0.52	9.0	3	38	
CHDL0530	○	0.53	9.0	3	38	
CHDL0540	○	0.54	9.0	3	38	
CHDL0550	○	0.55	9.0	3	38	
CHDL0560	○	0.56	9.0	3	38	
CHDL0570	○	0.57	9.0	3	38	
CHDL0580	○	0.58	9.0	3	38	
CHDL0590	○	0.59	9.0	3	38	
CHDL0600	○	0.60	9.0	3	38	
CHDL0610	○	0.61	9.0	3	38	
CHDL0620	○	0.62	9.0	3	38	
CHDL0630	○	0.63	9.0	3	38	
CHDL0640	○	0.64	9.0	3	38	
CHDL0650	○	0.65	9.0	3	38	
CHDL0660	○	0.66	9.0	3	38	
CHDL0670	○	0.67	9.0	3	38	
CHDL0680	○	0.68	9.0	3	38	
CHDL0690	○	0.69	9.0	3	38	
CHDL0700	○	0.7	9.0	3	38	
CHDL0710	○	0.71	10.0	3	38	
CHDL0720	○	0.72	10.0	3	38	
CHDL0730	○	0.73	10.0	3	38	
CHDL0740	○	0.74	10.0	3	38	
CHDL0750	○	0.75	10.0	3	38	
CHDL0760	○	0.76	10.0	3	38	
CHDL0770	○	0.77	10.0	3	38	
CHDL0780	○	0.78	10.0	3	38	
CHDL0790	○	0.79	10.0	3	38	
CHDL0800	○	0.80	10.0	3	38	
CHDL0810	○	0.81	10.0	3	38	
CHDL0820	○	0.82	10.0	3	38	
CHDL0830	○	0.83	10.0	3	38	
CHDL0840	○	0.84	10.0	3	38	
CHDL0850	○	0.85	10.0	3	38	
CHDL0860	○	0.86	10.0	3	38	
CHDL0870	○	0.87	10.0	3	38	
CHDL0880	○	0.88	10.0	3	38	
CHDL0890	○	0.89	10.0	3	38	
CHDL0900	○	0.9	10.0	3	38	
CHDL0910	○	0.91	10.0	3	38	

●标准库存 ○订单生产

www.kovestool.cn

CHDL- MULTI-FUNCTION LONG FLUTE MICRO DRILLS

CHDL 多功能加长微型钻头

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHDL0920	○	0.92	10.0	3	38	
CHDL0930	○	0.93	10.0	3	38	
CHDL0940	○	0.94	10.0	3	38	
CHDL0950	○	0.95	10.0	3	38	
CHDL0960	○	0.96	10.0	3	38	
CHDL0970	○	0.97	10.0	3	38	
CHDL0980	○	0.98	10.0	3	38	
CHDL0990	○	0.99	10.0	3	38	
CHDL1000	○	1.0	12.0	3	50	
CHDL1010	○	1.01	12.0	3	50	
CHDL1020	○	1.02	12.0	3	50	
CHDL1030	○	1.03	12.0	3	50	
CHDL1040	○	1.04	12.0	3	50	
CHDL1050	○	1.05	12.0	3	50	
CHDL1060	○	1.06	12.0	3	50	
CHDL1070	○	1.07	12.0	3	50	
CHDL1080	○	1.08	12.0	3	50	
CHDL1090	○	1.09	12.0	3	50	
CHDL1100	○	1.1	12.0	3	50	
CHDL1110	○	1.11	12.0	3	50	
CHDL1120	○	1.12	12.0	3	50	
CHDL1130	○	1.13	12.0	3	50	
CHDL1140	○	1.14	12.0	3	50	
CHDL1150	○	1.15	12.0	3	50	
CHDL1160	○	1.16	12.0	3	50	
CHDL1170	○	1.17	12.0	3	50	
CHDL1180	○	1.18	12.0	3	50	
CHDL1190	○	1.19	12.0	3	50	
CHDL1200	○	1.2	15.0	3	50	
CHDL1210	○	1.21	15.0	3	50	
CHDL1220	○	1.22	15.0	3	50	
CHDL1230	○	1.23	15.0	3	50	
CHDL1240	○	1.24	15.0	3	50	
CHDL1250	○	1.25	15.0	3	50	
CHDL1260	○	1.26	15.0	3	50	
CHDL1270	○	1.27	15.0	3	50	
CHDL1280	○	1.28	15.0	3	50	
CHDL1290	○	1.29	15.0	3	50	
CHDL1300	○	1.3	15.0	3	50	
CHDL1310	○	1.31	15.0	3	50	
CHDL1320	○	1.32	15.0	3	50	
CHDL1330	○	1.33	15.0	3	50	
CHDL1340	○	1.34	15.0	3	50	
CHDL1350	○	1.35	15.0	3	50	
CHDL1360	○	1.36	15.0	3	50	
CHDL1370	○	1.37	15.0	3	50	
CHDL1380	○	1.38	15.0	3	50	
CHDL1390	○	1.39	15.0	3	50	
CHDL1400	○	1.4	15.0	3	50	
CHDL1410	○	1.41	15.0	3	50	
CHDL1420	○	1.42	15.0	3	50	
CHDL1430	○	1.43	15.0	3	50	
CHDL1440	○	1.44	15.0	3	50	
CHDL1450	○	1.45	15.0	3	50	
CHDL1460	○	1.46	15.0	3	50	
CHDL1470	○	1.47	15.0	3	50	
CHDL1480	○	1.48	15.0	3	50	
CHDL1490	○	1.49	15.0	3	50	
CHDL1500	○	1.5	20.0	3	50	
CHDL1510	○	1.51	20.0	3	50	
CHDL1520	○	1.52	20.0	3	50	
CHDL1530	○	1.53	20.0	3	50	
CHDL1540	○	1.54	20.0	3	50	
CHDL1550	○	1.55	20.0	3	50	
CHDL1560	○	1.56	20.0	3	50	
CHDL1570	○	1.57	20.0	3	50	
CHDL1580	○	1.58	20.0	3	50	
CHDL1590	○	1.59	20.0	3	50	
CHDL1600	○	1.6	20.0	3	50	
CHDL1610	○	1.61	20.0	3	50	
CHDL1620	○	1.62	20.0	3	50	
CHDL1630	○	1.63	20.0	3	50	

www.kovestool.cn

●标准库存 ○订单生产

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHDL1640	○	1.64	20.0	3	50	
CHDL1650	○	1.65	20.0	3	50	
CHDL1660	○	1.66	20.0	3	50	
CHDL1670	○	1.67	20.0	3	50	
CHDL1680	○	1.68	20.0	3	50	
CHDL1690	○	1.69	20.0	3	50	
CHDL1700	○	1.70	20.0	3	50	
CHDL1710	○	1.71	20.0	3	50	
CHDL1720	○	1.72	20.0	3	50	
CHDL1730	○	1.73	20.0	3	50	
CHDL1740	○	1.74	20.0	3	50	
CHDL1750	○	1.75	20.0	3	50	
CHDL1760	○	1.76	20.0	3	50	
CHDL1770	○	1.77	20.0	3	50	
CHDL1780	○	1.78	20.0	3	50	
CHDL1790	○	1.79	20.0	3	50	
CHDL1800	○	1.80	20.0	3	50	
CHDL1810						

CHDL- MULTI-FUNCTION LONG FLUTE MICRO DRILLS

CHDL 多功能加长微型钻头

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHDL2360	○	2.36	25.0	3	60	
CHDL2370	○	2.37	25.0	3	60	
CHDL2380	○	2.38	25.0	3	60	
CHDL2390	○	2.39	25.0	3	60	
CHDL2400	○	2.40	25.0	3	60	
CHDL2410	○	2.41	25.0	3	60	
CHDL2420	○	2.42	25.0	3	60	
CHDL2430	○	2.43	25.0	3	60	
CHDL2440	○	2.44	25.0	3	60	
CHDL2450	○	2.45	25.0	3	60	
CHDL2460	○	2.46	25.0	3	60	
CHDL2470	○	2.47	25.0	3	60	
CHDL2480	○	2.48	25.0	3	60	
CHDL2490	○	2.49	25.0	3	60	
CHDL2500	○	2.50	25.0	3	60	
CHDL2510	○	2.51	25.0	3	60	
CHDL2520	○	2.52	25.0	3	60	
CHDL2530	○	2.53	25.0	3	60	
CHDL2540	○	2.54	25.0	3	60	
CHDL2550	○	2.55	25.0	3	60	
CHDL2560	○	2.56	25.0	3	60	
CHDL2570	○	2.57	25.0	3	60	
CHDL2580	○	2.58	25.0	3	60	
CHDL2590	○	2.59	25.0	3	60	
CHDL2600	○	2.60	25.0	3	60	
CHDL2610	○	2.61	25.0	3	60	
CHDL2620	○	2.62	25.0	3	60	
CHDL2630	○	2.63	25.0	3	60	
CHDL2640	○	2.64	25.0	3	60	
CHDL2650	○	2.65	25.0	3	60	
CHDL2660	○	2.66	25.0	3	60	
CHDL2670	○	2.67	25.0	3	60	
CHDL2680	○	2.68	25.0	3	60	

●标准库存 ○订单生产

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHDL2690	○	2.69	25.0	3	60	
CHDL2700	○	2.70	25.0	3	60	
CHDL2710	○	2.71	25.0	3	60	
CHDL2720	○	2.72	25.0	3	60	
CHDL2730	○	2.73	25.0	3	60	
CHDL2740	○	2.74	25.0	3	60	
CHDL2750	○	2.75	25.0	3	60	
CHDL2760	○	2.76	25.0	3	60	
CHDL2770	○	2.77	25.0	3	60	
CHDL2780	○	2.78	25.0	3	60	
CHDL2790	○	2.79	25.0	3	60	
CHDL2800	○	2.80	25.0	3	60	
CHDL2810	○	2.81	25.0	3	60	
CHDL2820	○	2.82	25.0	3	60	
CHDL2830	○	2.83	25.0	3	60	
CHDL2840	○	2.84	25.0	3	60	
CHDL2850	○	2.85	25.0	3	60	
CHDL2860	○	2.86	25.0	3	60	
CHDL2870	○	2.87	25.0	3	60	
CHDL2880	○	2.88	25.0	3	60	
CHDL2890	○	2.89	25.0	3	60	
CHDL2900	○	2.90	25.0	3	60	
CHDL2910	○	2.91	25.0	3	60	
CHDL2920	○	2.92	25.0	3	60	
CHDL2930	○	2.93	25.0	3	60	
CHDL2940	○	2.94	25.0	3	60	
CHDL2950	○	2.95	25.0	3	60	
CHDL2960	○	2.96	25.0	3	60	
CHDL2970	○	2.97	25.0	3	60	
CHDL2980	○	2.98	25.0	3	60	
CHDL2990	○	2.99	25.0	3	60	
CHDL3000	○	3.00	25.0	3	60	

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不銹鋼 Stainless Steel			耐熱合金 Heat-resisting Alloy			鈷鎳合金 Cobalt Nickel Alloy			鈦合金 Titanium Alloy		
	直徑 Drill Dia. mm	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min	回轉數 Rotation min ⁻¹	進給速度 Feed mm/min
0.04-0.09	10000~	10~	0.001~	10000~	10~	0.001~	10000~	10~	0.001~	10000~	10~	0.001~	4300	1.29~	0.0003~	9500	2.85~	0.0003~	7400	2.22~	0.0003~
	20000	30	0.0015	20000	30	0.0015	20000	20	0.0015	15000	22	0.0015	15000	3	0.0007	9500	7.6	0.0008	7400	5.18	0.0007
0.1-0.29	25000~	50~	0.002~	20000~	30~	0.0015~	17000~	17~	0.001~	15000~	7~	0.0005~	3900~	3.9~	0.001~	8500~	12.8~	0.0015~	6000~	6.6~	0.001~
	20000	200	0.01	15000	100	0.007	13000	52	0.004	7500	7.5	0.001	3600	7.2	0.002	7900	23.7	0.003	6200	12.4	0.002
0.3-0.49	20000~	200~	0.01~	15000	100~	0.007~	13000~	40~	0.003~	10000~	20~	0.002~	4900~	14.7~	0.003~	7600~	30.4~	0.004~	5900~	17.7~	0.003~
	18000	720	0.04	15000	150	0.01	10000	50	0.005	8000	80	0.01	4400	26.4	0.006	6800	68	0.01	5300	31.8	0.006
0.5-0.99	18000~	360~	0.02~	15000~	150~	0.01~	10000~	50~	0.005~	8000~	120	0.015~	3100~	21.7~	0.007~	6800~	102~	0.015~	5300~	37.1~	0.007~
	15000	600	0.04	9500	190	0.02	7000	70	0.01	6000	120	0.02	2900	29	0.01	6400	128	0.02	5000	50	0.01
1.0-1.99	15000~	600~	0.03~	9500~	190~	0.02~	7000~	70~	0.01~	6000~	120~	0.02~	2000~	40~	0.02~	4300~	129~	0.03~	3400~	68~	0.02~
	9500	6000	0.06	6000	300	0.05	4000	120	0.03	4000	160	0.04	1500	50	0.03	3200	160	0.05	2500	75	0.03
2.0-3.0	9500~	650~	0.07~	6000~	300~	0.05~	4000~	140	0.02~	4000~	120~	0.03~	1200	48	0.04	2700	189	0.07	2000	80	0.04
	6300	650	0.1	4800	380	0.08	3000	140	0.04	3700	185	0.05									

●标准库存 ○订单生产

CXD- LEFT ROTATION MICRO DRILLS

CXD 左旋微型钻头



●直径范围 Tool dia: D0.15-D3.18mm

●直径公差 Dia tolerance: 0,-0.003mm

●采用超微细颗粒硬质合金圆棒

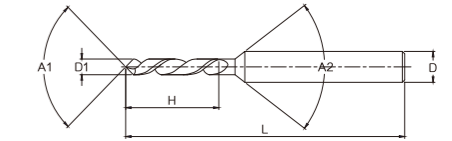
Micro Grain Tungsten Carbide

●超精公差管控, 优秀的切削力与排屑性

High precision tolerance control, excellent cutting force and chip removal

●特别设计的左旋槽形, 适合于自动车床的孔加工

The specially designed left-hand groove is suitable for hole processing of automatic lathe



加工材料 Work Material

碳素钢 S45C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	塑料 Plastics	玻璃 纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
-----------------------------	-------------------------------------	---	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	----------------	-------------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

○最适合 ○适合

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CXD0150	○	0.15	2.5	3.2	38	
CXD0160	○	0.16	2.5	3.2	38	
CXD0170	○	0.17	2.5	3.2	38	
CXD0180	○	0.18	2.5	3.2	38	
CXD0190	○	0.19	2.5	3.2	38	
CXD0200	○	0.20	3.5	3.2	38	
CXD0210	○	0.21	3.5	3.2	38	
CXD0220	○	0.22	3.5	3.2	38	
CXD0230	○	0.23	3.5	3.2	38	
CXD0240	○	0.24	3.5	3.2	38	
CXD0250	○	0.25	3.5	3.2	38	
CXD0260	○	0.26	3.5	3.2	38	
CXD0270	○	0.27	3.5	3.2	38	
CXD0280	○	0.28	3.5	3.2	38	
CXD0290	○	0.29	3.5	3.2	38	
CXD0300	○	0.30	3.5	3.2	38	
CXD0310	○	0.31	3.5	3.2	38	
CXD0320	○	0.32	3.5	3.2	38	
CXD0330	○	0.33	3.5	3.2	38	
CXD0340	○	0.34	3.5	3.2	38	
CXD0350	○	0.35	3.5	3.2	38	
CXD0360	○	0.36	3.5	3.2	38	
CXD0370	○	0.37	3.5	3.2	38	
CXD0380	○	0.38	3.5	3.2	38	
CXD0390	○	0.39	3.5	3.2	38	
CXD0400	○	0.40	3.5	3.2	38	
CXD0410	○	0.41	3.5	3.2	38	
CXD0420	○	0.42	3.5	3.2	38	
CXD0430	○	0.43	3.5	3.2	38	
CXD0440	○	0.44	3.5	3.2	38	
CXD0450	○	0.45	4.5	3.2	38	
CXD0460	○	0.46	4.5	3.2	38	
CXD0470	○	0.47	4.5	3.2	38	
CXD0480	○	0.48	4.5	3.2	38	
CXD0490	○	0.49	4.5	3.2	38	
CXD0500	○	0.50	5.0	3.2	38	
CXD0510	○	0.51	5.0	3.2	38	
CXD0520	○	0.52	5.0	3.2	38	
CXD0530	○	0.53	5.0	3.2	38	
CXD0540	○	0.54	5.0	3.2	38	
CXD0550	○	0.55	5.0	3.2	38	
CXD0560	○	0.56	5.0	3.2	38	

●标准库存 ○订单生产

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CXD0570	○	0.57	5.0	3.2	38	
CXD0580	○	0.58	5.0	3.2	38	
CXD0590	○	0.59	5.0	3.2	38	
CXD0600	○	0.60	5.0	3.2	38	
CXD0610	○	0.61	5.0	3.2	38	
CXD0620	○	0.62	5.0	3.2	38	
CXD0630	○	0.63	5.0	3.2	38	
CXD0640	○	0.64	5.0	3.2	38	
CXD0650	○	0.65	5.0	3.2	38	
CXD0660	○	0.66	5.0	3.2	38	
CXD0670	○	0.67	5.0	3.2	38	
CXD0680	○	0.68	5.0	3.2	38	
CXD0690	○	0.69	5.0	3.2	38	
CXD0700	○	0.70	5.0	3.2	38	

CXD- LEFT ROTATION MICRO DRILLS
CXD 左旋微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CXD0893	○	0.893	5.0	3.2	38	
CXD0895	○	0.895	5.0	3.2	38	
CXD0897	○	0.897	5.0	3.2	38	
CXD0900	○	0.900	5.0	3.2	38	
CXD0903	○	0.903	5.0	3.2	38	
CXD0905	○	0.905	5.0	3.2	38	
CXD0907	○	0.907	5.0	3.2	38	
CXD0910	○	0.910	5.0	3.2	38	
CXD0915	○	0.915	5.0	3.2	38	
CXD0920	○	0.92	5.0	3.2	38	
CXD0930	○	0.93	5.0	3.2	38	
CXD0940	○	0.94	5.0	3.2	38	
CXD0950	○	0.95	5.0	3.2	38	
CXD0960	○	0.96	5.0	3.2	38	
CXD0970	○	0.97	5.0	3.2	38	
CXD0980	○	0.98	5.0	3.2	38	
CXD0990	○	0.99	5.0	3.2	38	
CXD1000	○	1.00	5.5	3.2	38	
CXD1010	○	1.01	5.5	3.2	38	
CXD1020	○	1.02	5.5	3.2	38	
CXD1030	○	1.03	5.5	3.2	38	
CXD1040	○	1.04	5.5	3.2	38	
CXD1050	○	1.05	5.5	3.2	38	
CXD1060	○	1.06	5.5	3.2	38	
CXD1070	○	1.07	5.5	3.2	38	
CXD1073	○	1.073	5.5	3.2	38	
CXD1075	○	1.075	5.5	3.2	38	
CXD1078	○	1.078	5.5	3.2	38	
CXD1080	○	1.080	5.5	3.2	38	
CXD1083	○	1.083	5.5	3.2	38	
CXD1085	○	1.085	5.5	3.2	38	
CXD1087	○	1.087	5.5	3.2	38	
CXD1088	○	1.088	5.5	3.2	38	
CXD1090	○	1.090	5.5	3.2	38	
CXD1093	○	1.093	5.5	3.2	38	
CXD1095	○	1.095	5.5	3.2	38	
CXD1097	○	1.097	5.5	3.2	38	
CXD1100	○	1.10	5.5	3.2	38	
CXD1110	○	1.11	5.5	3.2	38	
CXD1120	○	1.12	5.5	3.2	38	
CXD1130	○	1.13	5.5	3.2	38	
CXD1140	○	1.14	5.5	3.2	38	
CXD1150	○	1.15	5.5	3.2	38	
CXD1160	○	1.16	5.5	3.2	38	
CXD1170	○	1.17	5.5	3.2	38	
CXD1180	○	1.18	5.5	3.2	38	
CXD1190	○	1.19	5.5	3.2	38	
CXD1200	○	1.20	5.5	3.2	38	
CXD1210	○	1.21	8.0	3.2	38	
CXD1220	○	1.22	8.0	3.2	38	
CXD1230	○	1.23	8.0	3.2	38	
CXD1240	○	1.24	8.0	3.2	38	
CXD1245	○	1.245	8.0	3.2	38	
CXD1250	○	1.25	8.0	3.2	38	
CXD1255	○	1.255	8.0	3.2	38	
CXD1260	○	1.260	8.0	3.2	38	
CXD1265	○	1.265	8.0	3.2	38	
CXD1268	○	1.268	8.0	3.2	38	
CXD1270	○	1.270	8.0	3.2	38	
CXD1275	○	1.275	8.0	3.2	38	
CXD1280	○	1.280	8.0	3.2	38	
CXD1283	○	1.283	8.0	3.2	38	
CXD1285	○	1.285	8.0	3.2	38	
CXD1290	○	1.290	8.0	3.2	38	
CXD1300	○	1.30	8.0	3.2	38	
CXD1310	○	1.31	8.0	3.2	38	
CXD1320	○	1.32	8.0	3.2	38	
CXD1330	○	1.33	8.0	3.2	38	
CXD1340	○	1.34	8.0	3.2	38	
CXD1350	○	1.35	8.0	3.2	38	
CXD1360	○	1.36	8.0	3.2	38	
CXD1370	○	1.37	8.0	3.2	38	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CXD1380	○	1.38	8.0	3.2	38	
CXD1390	○	1.39	8.0	3.2	38	
CXD1400	○	1.40	8.0	3.2	38	
CXD1410	○	1.41	8.0	3.2	38	
CXD1420	○	1.42	8.0	3.2	38	
CXD1430	○	1.43	8.0	3.2	38	
CXD1440	○	1.44	8.0	3.2	38	
CXD1450	○	1.45	8.0	3.2	38	
CXD1460	○	1.46	8.0	3.2	38	
CXD1470	○	1.47	8.0	3.2	38	
CXD1480	○	1.48	8.0	3.2	38	
CXD1490	○	1.49	8.0	3.2	38	
CXD1500	○	1.50	8.0	3.2	38	
CXD1510	○	1.51	8.0	3.2	38	
CXD1520	○	1.52	8.0	3.2	38	
CXD1530	○	1.53	8.0	3.2	38	
CXD1540	○	1.54	8.0	3.2	38	
CXD1550	○	1.55	8.0	3.2	38	
CXD1560	○	1.56	8.0	3.2	38	
CXD1570	○	1.57	8.0	3.2	38	
CXD1580	○	1.58	8.0	3.2	38	
CXD1590	○	1.59	8.0	3.2	38	
CXD1600	○	1.60	8.0	3.2	38	
CXD1610	○	1.61	8.0	3.2	38	
CXD1620	○	1.62	8.0	3.2	38	
CXD1630	○	1.63	8.0	3.2	38	
CXD1640	○	1.64	8.0	3.2	38	
CXD1650	○	1.65	8.0	3.2	38	
CXD1660	○	1.66	8.0	3.2	38	
CXD1670	○	1.67	8.0	3.2	38	
CXD1680	○	1.68	8.0	3.2	38	
CXD1690	○	1.69	8.0	3.2	38	
CXD1700	○	1.70	8.0	3.2	38	
CXD1710	○	1.71	8.0	3.2	38	
CXD1720	○	1.72	8.0	3.2	38	
CXD1730	○	1.73	8.0	3.2	38	
CXD1740	○	1.74	8.0	3.2	38	
CXD1750	○	1.75	8.0	3.2	38	
CXD1760	○	1.76	8.0	3.2	38	
CXD1770	○	1.77	8.0	3.2	38	
CXD1780	○	1.78	8.0	3.2	38	
CXD1790	○	1.79	8.0	3.2	38	
CXD1800	○	1.80	8.0	3.2	38	
CXD1810	○	1.81	8.0	3.2	38	
CXD1820	○	1.82	8.0	3.2	38	
CXD1830	○	1.83	8.0	3.2	38	
CXD1835	○	1.835	8.0	3.2	38	
CXD1840	○	1.840	8.0	3.2	38	
CXD1845	○	1.845	8.0	3.2	38	
CXD1850	○	1.85	8.0	3.2	38	
CXD1860	○	1.86	8.0	3.2	38	
CXD1870	○	1.87	8.0	3.2	38	
CXD1880	○	1.88	8.0	3.2	38	
CXD1890	○	1.89	8.0	3.2	38	
CXD1900	○	1.90	10.0	3.2	38	
CXD1910	○	1.91	10.0	3.2	38	
CXD1920	○	1.92	10.0	3.2	38	
CXD1930	○	1.93	10.0	3.2	38	
CXD1940	○	1.94	10.0	3.2	38	
CXD1950	○	1.95	10.0	3.2	38	
CXD1960	○	1.96	10.0	3.2	38	
CXD1970	○	1.97	10.0	3.2	38	
CXD1980	○	1.98	10.0	3.2	38	
CXD1990	○	1.99	10.0	3.2	38	
CXD2000	○	2.00	10.0	3.2	38	
CXD2010	○	2.01	10.0	3.2	38	
CXD2020	○	2.02	10.0	3.2	38	
CXD2030	○	2.03	10.0	3.2	38	
CXD2040	○	2.04	10.0	3.2	38	
CXD2050	○	2.05	10.0	3.2	38	
CXD2060	○	2.06	10.0	3.2	38	
CXD2070	○	2.07	10.0	3.2	38	

●标准库存 ○订单生产

CXD- LEFT ROTATION MICRO DRILLS
CXD 左旋微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CXD2080	○	2.08	10.0	3.2	38	
CXD2090	○	2.09	10.0	3.2	38	
CXD2100	○	2.10	12.0	3.2	38	
CXD2110	○	2.11	12.0	3.2	38	
CXD2120	○	2.12	12.0	3.2	38	
CXD2130	○	2.13	12.0	3.2	38	
CXD2140	○	2.14	12.0	3.2	38	
CXD2150	○	2.15	12.0	3.2	38	
CXD2160	○	2.16	12.0	3.2	38	
CXD2170	○	2.17	12.0	3.2	38	
CXD2180	○	2.18	12.0	3.2	38	
CXD2190	○	2.19	12.0	3.2	38	
CXD2200	○	2.20	12.0	3.2	38	
CXD2210	○	2.21	12.0	3.2	38	
CXD2220	○	2.22	12.0	3.2	38	
CXD2230	○	2.23	12.0	3.2	38	
CXD2240	○	2.24	12.0	3.2	38	
CXD2250	○	2.25	12.0	3.2	38	
CXD2260	○	2.26	12.0	3.2	38	
CXD2270	○	2.27	12.0	3.2	38	
CXD2280	○	2.28	12.0	3.2	38	
CXD2290	○	2.29	12.0	3.2	38	
CXD2300	○	2.30	12.0	3.2	38	
CXD2310	○	2.31	12.0	3.2	38	
CXD2320	○	2.32	12.0	3.2	38	
CXD2330	○	2.33	12.0	3.2	38	
CXD2340	○	2.34	12.0	3.2	38	
CXD2350	○	2.35	12.0	3.2	38	
CXD2360	○	2.36	12.0	3.2	38	
CXD2370	○	2.37	12.0	3.2	38	
CXD2380	○	2.38	12.0	3.2	38	
CXD2390	○	2.39	12.0	3.2	38	
CXD2400	○	2.40	12.0	3.2	38	
CXD2410	○	2.41	12.0	3.2	38	
CXD2420	○	2.42	12.0	3.2	38	
CXD2430	○	2.43	12.0	3.2	38	
CXD2440	○	2.44	12.0	3.2	38	
CXD2450	○	2.45	12.0	3.2	38	
CXD2460	○	2.46	12.0	3.2	38	
CXD2470	○	2.47	12.0	3.2	38	
CXD2480	○	2.48	12.0	3.2	38	
CXD2490	○	2.49	12.0	3.2	38	
CXD2500	○	2.50	12.0	3.2	38	
CXD2510	○	2.51	12.0	3.2	38	
CXD2520	○	2.52	12.0	3.2	38	
CXD2530	○	2.53	12.0	3.2	38	
CXD2540	○	2.54	12.0	3.2	38	
CXD2550	○	2.55	12.0	3.2	38	
CXD2560	○	2.56	12.0	3.2	38	
CXD2570	○	2.57	12.0	3.2	38	
CXD2580	○	2.58	12.0	3.2	38	
CXD2590	○	2.59	12.0	3.2	38	
CXD2600	○	2.60	12.0	3.2	38	
CXD2610	○	2.61	12.0	3.2	38	
CXD2620	○	2.62	12.0	3.2	38	
CXD2630	○	2.63				

CHXD- COATING LEFT ROTATION MICRO DRILLS

CHXD 涂层左旋微型钻头



•直径范围 Tool dia: D0.15-D3.18mm

•直径公差 Dia tolerance: 0,-0.003mm

•采用超微细颗粒硬质合金圆棒

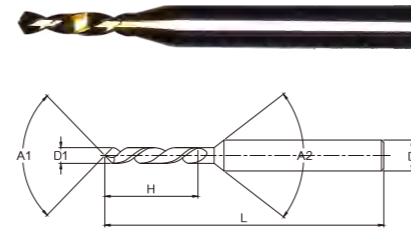
Micro Grain Tungsten Carbide

•特别设计的左旋槽形, 适合于自动车床的孔加工

The specially designed left-hand groove is suitable for hole processing of automatic lathe

•通用性涂层, 适于不锈钢, 钛合金等材料的孔加工

Universal coating, suitable for hole machining of stainless steel, titanium alloy and other materials



加工材料 Work Material																	
碳钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

●最适合 ○适合

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHXD0150	○	0.15	2.5	3.2	38	
CHXD0160	○	0.16	2.5	3.2	38	
CHXD0170	○	0.17	2.5	3.2	38	
CHXD0180	○	0.18	2.5	3.2	38	
CHXD0190	○	0.19	2.5	3.2	38	
CHXD0200	○	0.20	3.5	3.2	38	
CHXD0210	○	0.21	3.5	3.2	38	
CHXD0220	○	0.22	3.5	3.2	38	
CHXD0230	○	0.23	3.5	3.2	38	
CHXD0240	○	0.24	3.5	3.2	38	
CHXD0250	○	0.25	3.5	3.2	38	
CHXD0260	○	0.26	3.5	3.2	38	
CHXD0270	○	0.27	3.5	3.2	38	
CHXD0280	○	0.28	3.5	3.2	38	
CHXD0290	○	0.29	3.5	3.2	38	
CHXD0300	○	0.30	3.5	3.2	38	
CHXD0310	○	0.31	3.5	3.2	38	
CHXD0320	○	0.32	3.5	3.2	38	
CHXD0330	○	0.33	3.5	3.2	38	
CHXD0340	○	0.34	3.5	3.2	38	
CHXD0350	○	0.35	3.5	3.2	38	
CHXD0360	○	0.36	3.5	3.2	38	
CHXD0370	○	0.37	3.5	3.2	38	
CHXD0380	○	0.38	3.5	3.2	38	
CHXD0390	○	0.39	3.5	3.2	38	
CHXD0400	○	0.40	3.5	3.2	38	
CHXD0410	○	0.41	3.5	3.2	38	
CHXD0420	○	0.42	3.5	3.2	38	
CHXD0430	○	0.43	3.5	3.2	38	
CHXD0440	○	0.44	3.5	3.2	38	
CHXD0450	○	0.45	4.5	3.2	38	
CHXD0460	○	0.46	4.5	3.2	38	
CHXD0470	○	0.47	4.5	3.2	38	
CHXD0480	○	0.48	4.5	3.2	38	
CHXD0490	○	0.49	4.5	3.2	38	
CHXD0500	○	0.50	5.0	3.2	38	
CHXD0510	○	0.51	5.0	3.2	38	
CHXD0520	○	0.52	5.0	3.2	38	
CHXD0530	○	0.53	5.0	3.2	38	
CHXD0540	○	0.54	5.0	3.2	38	
CHXD0550	○	0.55	5.0	3.2	38	
CHXD0560	○	0.56	5.0	3.2	38	

●标准库存 ○订单生产

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHXD0570	○	0.57	5.0	3.2	38	
CHXD0580	○	0.58	5.0	3.2	38	
CHXD0590	○	0.59	5.0	3.2	38	
CHXD0600	○	0.60	5.0	3.2	38	
CHXD0610	○	0.61	5.0	3.2	38	
CHXD0620	○	0.62	5.0	3.2	38	
CHXD0630	○	0.63	5.0	3.2	38	
CHXD0640	○	0.64	5.0	3.2	38	
CHXD0650	○	0.65	5.0	3.2	38	
CHXD0660	○	0.66	5.0	3.2	38	
CHXD0670	○	0.67	5.0	3.2	38	
CHXD0680	○	0.68	5.0	3.2	38	
CHXD0690	○	0.69	5.0	3.2	38	
CHXD0700	○	0.70	5.0	3.2	38	
CHXD0710	○	0.71	5.0	3.2	38	
CHXD0715	○	0.715	5.0	3.2	38	
CHXD0720	○	0.720	5.0	3.2	38	
CHXD0725	○	0.725	5.0	3.2	38	
CHXD0730	○	0.73	5.0	3.2	38	
CHXD0740	○	0.74	5.0	3.2	38	
CHXD0750	○	0.75	5.0	3.2	38	
CHXD0760	○	0.76	5.0	3.2	38	
CHXD0770	○	0.77	5.0	3.2	38	
CHXD0780	○	0.78	5.0	3.2	38	
CHXD0790	○	0.79	5.0	3.2	38	
CHXD0800	○	0.80	5.0	3.2	38	
CHXD0810	○	0.81	5.0	3.2	38	
CHXD0820	○	0.82	5.0	3.2	38	
CHXD0830	○	0.83	5.0	3.2	38	
CHXD0840	○	0.84	5.0	3.2	38	
CHXD0850	○	0.85	5.0	3.2	38	
CHXD0860	○	0.86	5.0	3.2	38	
CHXD0870	○	0.87	5.0	3.2	38	
CHXD0873	○	0.873	5.0	3.2	38	
CHXD0875	○	0.875	5.0	3.2	38	
CHXD0880	○	0.880	5.0	3.2	38	
CHXD0883	○	0.883	5.0	3.2	38	
CHXD0885	○	0.885	5.0	3.2	38	
CHXD0887	○	0.887	5.0	3.2	38	
CHXD0888	○	0.887	5.0	3.2	38	
CHXD0890	○	0.890	5.0	3.2	38	
CHXD0892	○	0.892	5.0	3.2	38	

●标准库存 ○订单生产

CHXD- COATING LEFT ROTATION MICRO DRILLS

CHXD 涂层左旋微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHXD0893	○	0.893	5.0	3.2	38	
CHXD0895	○	0.895	5.0	3.2	38	
CHXD0897	○	0.897	5.0	3.2	38	
CHXD0900	○	0.900	5.0	3.2	38	
CHXD0903	○	0.903	5.0	3.2	38	
CHXD0905	○	0.905	5.0	3.2	38	
CHXD0907	○	0.907	5.0	3.2	38	
CHXD0910	○	0.910	5.0	3.2	38	
CHXD0915	○	0.915	5.0	3.2	38	
CHXD0920	○	0.92	5.0	3.2	38	
CHXD0930	○	0.93	5.0	3.2	38	
CHXD0940	○	0.94	5.0	3.2	38	
CHXD0950	○	0.95	5.0	3.2	38	
CHXD0960	○	0.96	5.0	3.2	38	
CHXD0970	○	0.97	5.0	3.2	38	
CHXD0980	○	0.98	5.0	3.2	38	
CHXD0990	○	0.99	5.0	3.2	38	
CHXD1000	○	1.00	5.5	3.2	38	
CHXD1010	○	1.01	5.5	3.2	38	
CHXD1020	○	1.02	5.5	3.2	38	
CHXD1030	○	1.03	5.5	3.2	38	
CHXD1040	○	1.04	5.5	3.2	38	
CHXD1050	○	1.05	5.5	3.2	38	
CHXD1060	○	1.06	5.5	3.2	38	
CHXD1070	○	1.07	5.5	3.2	38	
CHXD1073	○	1.073	5.5	3.2	38	
CHXD1075	○	1.075	5.5	3.2	38	
CHXD1078	○	1.078	5.5	3.2	38	
CHXD1080	○	1.080	5.5	3.2	38	
CHXD1083	○	1.083	5.5	3.2	38	
CHXD1085	○	1.085	5.5	3.2	38	
CHXD1087	○	1.087	5.5	3.2	38	
CHXD1088	○	1.088	5.5	3.2	38	
CHXD1090	○	1.090	5.5	3.2	38	
CHXD1093	○	1.093	5.5	3.2	38	
CHXD1095	○	1.095	5.5	3.2	38	
CHXD1097	○	1.097	5.5	3.2	38	
CHXD1100	○	1.10	5.5	3.2	38	
CHXD1110	○	1.11	5.5	3.2	38	
CHXD1120	○	1.12	5.5	3.2	38	
CHXD1130	○	1.13	5.5	3.2	38	
CHXD1140	○	1.14	5.5	3.2	38	
CHXD1150	○	1.15	5.5	3.2	38	
CHXD1160	○	1.16	5.5	3.2	38	
CHXD1170	○	1.17	5.5	3.2	38	
CHXD1180	○	1.18	5.5	3.2	38	
CHXD1190	○	1.19	5.5	3.2	38	
CHXD1200	○	1.20	5.5	3.2	38	
CHXD1210	○	1.21	8.0	3.2	38	
CHXD1220	○	1.22	8.0	3.2	38	
CHXD1230	○	1.23	8.0	3.2	38	
CHXD1240	○	1.24	8.0	3.2	38	
CHXD1245	○	1.245	8.0	3.2	38	
CHXD1250	○	1.250	8.0	3.2	38	
CHXD1255	○	1.255	8.0	3.2	38	
CHXD1260	○	1.260	8.0	3.2	38	
CHXD1265	○	1.265	8.0	3.2	38	
CHXD1268	○	1.268	8.0	3.2	38	
CHXD1270	○	1.270	8.0	3.2	38	
CHXD1275	○	1.275	8.0	3.2	38	
CHXD1280	○	1.280	8.0	3.2	38	
CHXD1283	○	1.283	8.0	3.2	38	
CHXD1285	○	1.285	8.0	3.2	38	
CHXD1290	○	1.29	8.0	3.2	38	
CHXD1300	○	1.30	8.0	3.2	38	
CHXD1310	○	1.31	8.0	3.2	38	
CHXD1320	○	1.32	8.0	3.2	38	
CHXD1330	○	1.33	8.0	3.2	38	
CHXD1340	○	1.34	8.0	3.2	38	
CHXD1350	○	1.35	8.0	3.2	38	
CHXD1360	○	1.36	8.0	3.2	38	
CHXD1370	○	1.37	8.0	3.2	38	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHXD1380	○	1.38	8.0	3.2	38	
CHXD1390	○	1.39	8.0	3.2	38	
CHXD1400	○	1.40	8.0	3.2	38	
CHXD1410	○	1.41	8.0	3.2	38	
CHXD1420	○	1.42	8.0	3.2	38	
CHXD1430	○	1.43	8.0	3.2	38	
CHXD1440	○	1.44	8.0	3.2	38	
CHXD1450	○	1.45	8.0	3.2	38	
CHXD1460	○	1.46	8.0	3.2	38	
CHXD1470	○	1.47	8.0	3.2	38	
CHXD1480	○	1.48	8.0	3.2	38	
CHXD1490	○	1.49	8.0	3.2	38	
CHXD1500	○	1.50	8.0	3.2	38	
CHXD1510	○	1.51	8.0	3.2	38	
CHXD1520	○	1.52	8.0	3.2	38	
CHXD1530	○	1.53	8.0	3.2	38	
CHXD1540	○	1.54	8.0	3.2	38	
CHXD1550	○	1.55	8.0	3.2	38	
CHXD1560	○	1.56	8.0	3.2	38	
CHXD1570	○	1.57	8.0	3.2	38	
CHXD1580	○	1.58	8.0	3.2	38	
CHXD1590	○	1.59	8.0	3.2	38	
CHXD1600	○	1.60	8.0	3.2	38	
CHXD1610	○	1.61	8.0	3.2	38	

CHXD- COATING LEFT ROTATION MICRO DRILLS CHXD 涂层左旋微型钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHXD2080	○	2.08	10.0	3.2	38	
CHXD2090	○	2.09	10.0	3.2	38	
CHXD2100	○	2.10	12.0	3.2	38	
CHXD2110	○	2.11	12.0	3.2	38	
CHXD2120	○	2.12	12.0	3.2	38	
CHXD2130	○	2.13	12.0	3.2	38	
CHXD2140	○	2.14	12.0	3.2	38	
CHXD2150	○	2.15	12.0	3.2	38	
CHXD2160	○	2.16	12.0	3.2	38	
CHXD2170	○	2.17	12.0	3.2	38	
CHXD2180	○	2.18	12.0	3.2	38	
CHXD2190	○	2.19	12.0	3.2	38	
CHXD2200	○	2.20	12.0	3.2	38	
CHXD2210	○	2.21	12.0	3.2	38	
CHXD2220	○	2.22	12.0	3.2	38	
CHXD2230	○	2.23	12.0	3.2	38	
CHXD2240	○	2.24	12.0	3.2	38	
CHXD2250	○	2.25	12.0	3.2	38	
CHXD2260	○	2.26	12.0	3.2	38	
CHXD2270	○	2.27	12.0	3.2	38	
CHXD2280	○	2.28	12.0	3.2	38	
CHXD2290	○	2.29	12.0	3.2	38	
CHXD2300	○	2.30	12.0	3.2	38	
CHXD2310	○	2.31	12.0	3.2	38	
CHXD2320	○	2.32	12.0	3.2	38	
CHXD2330	○	2.33	12.0	3.2	38	
CHXD2340	○	2.34	12.0	3.2	38	
CHXD2350	○	2.35	12.0	3.2	38	
CHXD2360	○	2.36	12.0	3.2	38	
CHXD2370	○	2.37	12.0	3.2	38	
CHXD2380	○	2.38	12.0	3.2	38	
CHXD2390	○	2.39	12.0	3.2	38	
CHXD2400	○	2.40	12.0	3.2	38	
CHXD2410	○	2.41	12.0	3.2	38	
CHXD2420	○	2.42	12.0	3.2	38	
CHXD2430	○	2.43	12.0	3.2	38	
CHXD2440	○	2.44	12.0	3.2	38	
CHXD2450	○	2.45	12.0	3.2	38	
CHXD2460	○	2.46	12.0	3.2	38	
CHXD2470	○	2.47	12.0	3.2	38	
CHXD2480	○	2.48	12.0	3.2	38	
CHXD2490	○	2.49	12.0	3.2	38	
CHXD2500	○	2.50	12.0	3.2	38	
CHXD2510	○	2.51	12.0	3.2	38	
CHXD2520	○	2.52	12.0	3.2	38	
CHXD2530	○	2.53	12.0	3.2	38	
CHXD2540	○	2.54	12.0	3.2	38	
CHXD2550	○	2.55	12.0	3.2	38	
CHXD2560	○	2.56	12.0	3.2	38	
CHXD2570	○	2.57	12.0	3.2	38	
CHXD2580	○	2.58	12.0	3.2	38	
CHXD2590	○	2.59	12.0	3.2	38	
CHXD2600	○	2.60	12.0	3.2	38	
CHXD2610	○	2.61	12.0	3.2	38	
CHXD2620	○	2.62	12.0	3.2	38	
CHXD2630	○	2.63	12.0	3.2	38	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHXD2640	○	2.64	12.0	3.2	38	
CHXD2650	○	2.65	12.0	3.2	38	
CHXD2660	○	2.66	12.0	3.2	38	
CHXD2670	○	2.67	12.0	3.2	38	
CHXD2680	○	2.68	12.0	3.2	38	
CHXD2690	○	2.69	12.0	3.2	38	
CHXD2700	○	2.70	12.0	3.2	38	
CHXD2710	○	2.71	12.0	3.2	38	
CHXD2720	○	2.72	12.0	3.2	38	
CHXD2730	○	2.73	12.0	3.2	38	
CHXD2740	○	2.74	12.0	3.2	38	
CHXD2750	○	2.75	12.0	3.2	38	
CHXD2760	○	2.76	12.0	3.2	38	
CHXD2770	○	2.77	12.0	3.2	38	
CHXD2780	○	2.78	12.0	3.2	38	
CHXD2790	○	2.79	12.0	3.2	38	
CHXD2800	○	2.80	12.0	3.2	38	
CHXD2810	○	2.81	12.0	3.2	38	
CHXD2820	○	2.82	12.0	3.2	38	
CHXD2830	○	2.83	12.0	3.2	38	
CHXD2840	○	2.84	12.0	3.2	38	
CHXD2850	○	2.85	12.0	3.2	38	
CHXD2860	○	2.86	12.0	3.2	38	
CHXD2870	○	2.87	12.0	3.2	38	
CHXD2880	○	2.88	12.0	3.2	38	
CHXD2890	○	2.89	12.0	3.2	38	
CHXD2900	○	2.90	12.0	3.2	38	
CHXD2910	○	2.91	12.0	3.2	38	
CHXD2920	○	2.92	12.0	3.2	38	
CHXD2930	○	2.93	12.0	3.2	38	
CHXD2940	○	2.94	12.0	3.2	38	
CHXD2950	○	2.95	12.0	3.2	38	
CHXD2960	○	2.96	12.0	3.2	38	
CHXD2970	○	2.97	12.0	3.2	38	
CHXD2980	○	2.98	12.0	3.2	38	
CHXD2990	○	2.99	12.0	3.2	38	
CHXD3000	○	3.00	12.0	3.2	38	
CHXD3010	○	3.01	12.0	3.2	38	
CHXD3020	○	3.02	12.0	3.2	38	
CHXD3030	○	3.03	12.0	3.2	38	
CHXD3040	○	3.04	12.0	3.2	38	
CHXD3050	○	3.05	12.0	3.2	38	
CHXD3060	○	3.06	12.0	3.2	38	
CHXD3070	○	3.07	12.0	3.2	38	
CHXD3080	○	3.08	12.0	3.2	38	
CHXD3090	○	3.09	12.0	3.2	38	
CHXD3100	○	3.10	12.0	3.2	38	
CHXD3110	○	3.11	12.0	3.2	38	
CHXD3120	○	3.12	12.0	3.2	38	
CHXD3130	○	3.13	12.0	3.2	38	
CHXD3140	○	3.14	12.0	3.2	38	
CHXD3150	○	3.15	12.0	3.2	38	
CHXD3160	○	3.16	12.0	3.2	38	
CHXD3170	○	3.17	12.0	3.2	38	
CHXD3180	○	3.18	12.0	3.2	38	

●标准库存 ○订单生产

CCD- HIGH PERFORMANCE DRILLS 3D (END MILL SHANK) CCD 高性能合金钻头 3D (定柄)



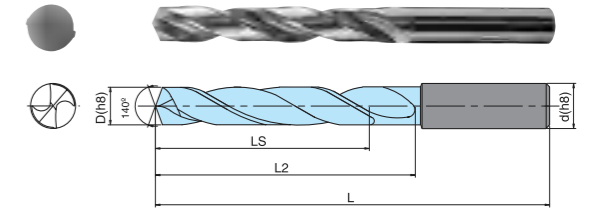
- 直径范围 Tool dia: D3.0-D20.0mm
- 直径公差 Dia tolerance:h8

- 尺寸标准: Standard: DIN6537

- 采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide

- 新开发复合涂层, 增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit



加工材料 Work Material																	
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○最适合 ○适合

单位:(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD3030	●	3.0	20	62	4	14	48.00
CCD3031	●	3.1	20	62	4	14	48.00
CCD3032	●	3.2	20	62	4	14	48.00
CCD3033	●	3.3	20	62	4	14	48.00
CCD3034	●	3.1	20	62	4	14	48.00
CCD3035	●	3.5	20	62	4	14	48.00
CCD3036	●	3.6	20	62	4	14	48.00
CCD3037	●	3.7	20	62	4	14	48.00
CCD3038	●	3.8	24	62	4	17	48.00
CCD3039	●	3.9	24	62	4	17	48.00
CCD3040	●	4.0	24	62	4	17	48.00
CCD3041	●	4.1	24	66	6	17	86.00
CCD3042	●	4.2	24	66	6	17	86.00
CCD3043	●	4.3	24	66	6	17	86.00
CCD3044	●	4.4	24	66	6	17	86.00
CCD3045	●	4.5	24	66	6	17	86.00
CCD3046	●	4.6	24	66	6	17	86.00
CCD3047	●	4.7	24	66	6	17	86.00
CCD3048	●	4.8	28	66	6	20	86.00
CCD3049	●	4.9	28	66	6	20	86.00
CCD3050	●	5.0	28	66	6	20	86.00
CCD3051	●	5.1	28	66	6	20	86.00
CCD3052	●	5.2	28	66	6	20	86.00
CCD3053	●	5.3	28	66	6	20	86.00
CCD3054	●	5.4	28	66	6	20	86.00
CCD3055	●	5.5	28	66	6	20	86.00
CCD3056	●	5.6	28	66	6	20	86.00
CCD3057	●	5.7	28	66	6	20	86.00
CCD3058	●	5.8	28	66	6	20	86.00
CCD3059	●	5.9	28	66	6	20	86.00
CCD3060	●	6.0	28	66	6	20	86.00
CCD3061	●	6.1	34	79	8	24	138.00
CCD3062	●	6.2	34	79	8	24	138.00
CCD3063	●	6.3	34	79	8	24	138.00
CCD3064	●	6.4	34	79	8	24	138.00
CCD3065	●	6.5	34	79	8	24	138.00
CCD3066	●	6.6	34	79	8	24	138.00
CCD3067	●	6.7	34	79	8	24	138.00
CCD3068	●	6.8	34	79	8	24	138.00
CCD3069	●	6.9	34	79	8	24	138.00
CCD3070	●	7.0	34	79	8	24	138.00
CCD3071	●	7.1	41	79	8	29	138.00
CCD3072	●	7.2	41	79	8	29	138.00
CCD3073	●	7.3	41	79	8	29	138.00
CCD3074	●	7.4	41	79	8	29	138.00
CCD3075	●	7.5	41	79	8	29	138.00
CCD3076	●	7.6	41	79	8	29	138.00
CCD3077	●	7.7	41	79	8	29	138.00
CCD3078	●	7.8	41	79	8	29	138.00
CCD3079	●	7.9	41	79	8	29	138.00

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD3080	●	8.0	41	79	8	29	138.00
CCD3081	●	8.1	47	89	10	35	200.00
CCD3082	●	8.2	47	89	10	35	200.00
CCD3083	●	8.3	47	89	10	35	200.00
CCD3084	●	8.4	47	89	10	35	200.00
CCD3085	●	8.5	47	89	10	35	200.00
CCD3086	●	8.6	47	89	10	35	200.00
CCD3087	●	8.7	47	89	10	35	200.0

CCD- HIGH PERFORMANCE DRILLS 3D (END MILL SHANK)

CCD 高性能合金钻头 3D (定柄)

单位:(mm)							
型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD3130	●	13.0	60	107	14	43	374.00
CCD3131	●	13.1	60	107	14	43	374.00
CCD3132	●	13.2	60	107	14	43	374.00
CCD3133	●	13.3	60	107	14	43	374.00
CCD3134	●	13.4	60	107	14	43	374.00
CCD3135	●	13.5	60	107	14	43	374.00
CCD3136	●	13.6	60	107	14	43	374.00
CCD3137	●	13.7	60	107	14	43	374.00
CCD3138	●	13.8	60	107	14	43	374.00
CCD3139	●	13.9	60	107	14	43	374.00
CCD3140	●	14.0	60	107	14	43	374.00
CCD3141	●	14.1	65	115	16	45	478.00
CCD3142	●	14.2	65	115	16	45	478.00
CCD3143	●	14.3	65	115	16	45	478.00
CCD3144	●	14.4	65	115	16	45	478.00
CCD3145	●	14.5	65	115	16	45	478.00
CCD3146	●	14.6	65	115	16	45	478.00
CCD3147	●	14.7	65	115	16	45	478.00
CCD3148	●	14.8	65	115	16	45	478.00
CCD3149	●	14.9	65	115	16	45	478.00

●标准库存 ○订单生产

单位:(mm)							
型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD3150	●	15.0	65	115	16	45	478.00
CCD3151	●	15.1	65	115	16	45	478.00
CCD3152	●	15.2	65	115	16	45	478.00
CCD3153	●	15.3	65	115	16	45	478.00
CCD3154	●	15.4	65	115	16	45	478.00
CCD3155	●	15.5	65	115	16	45	478.00
CCD3156	●	15.6	65	115	16	45	478.00
CCD3157	●	15.7	65	115	16	45	478.00
CCD3158	●	15.8	65	115	16	45	478.00
CCD3159	●	15.9	65	115	16	45	478.00
CCD3160	●	16.0	65	115	16	45	478.00
CCD3165	●	16.5	73	123	18	51	554.00
CCD3170	●	17.0	73	123	18	51	554.00
CCD3175	●	17.5	73	123	18	51	554.00
CCD3180	●	18.0	73	123	18	51	554.00
CCD3185	●	18.5	79	131	20	55	702.00
CCD3190	●	19.0	79	131	20	55	702.00
CCD3195	●	19.5	79	131	20	55	702.00
CCD3200	●	20.0	79	131	20	55	702.00

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	低炭素鋼 C<0.3%		炭素鋼 ~210HB		合金鋼 16~28HRC		合金鋼 28~35HRC		灰口铸铁		球墨铸铁	
	Low Carbon Steel		Carbon Steel		Alloy Steel		Alloy Steel		Cast iron		Ductile Cast iron	
切削速度 Cutting Speed mm/min	70~120m/min		60~120m/min		60~120m/min		50~90m/min		60~120m/min		50~100m/min	
直径 Drill Dia. mm	回転数 Speed min ⁻¹	进给量 Feed mm/rev	回転数 Speed min ⁻¹	进给量 Feed mm/rev	回転数 Speed min ⁻¹	进给量 Feed mm/rev	回転数 Speed min ⁻¹	进给量 Feed mm/rev	回転数 Speed min ⁻¹	进给量 Feed mm/rev	回転数 Speed min ⁻¹	进给量 Feed mm/rev
2	12000	0.06~0.08	10400	0.06~0.08	10400	0.06~0.08	8800	0.06~0.08	10400	0.06~0.08	9600	0.06~0.08
4	8000	0.08~0.16	7200	0.08~0.16	7200	0.08~0.16	5600	0.08~0.16	7200	0.08~0.16	6000	0.08~0.16
6	5300	0.12~0.24	4800	0.12~0.24	4800	0.12~0.24	3700	0.12~0.24	4800	0.12~0.24	4000	0.12~0.24
8	4000	0.16~0.28	3600	0.16~0.28	3600	0.16~0.28	2800	0.16~0.28	3600	0.16~0.28	3000	0.16~0.28
10	3200	0.2~0.3	2900	0.2~0.3	2900	0.2~0.3	2200	0.2~0.3	2900	0.2~0.3	2400	0.2~0.3
12	2700	0.21~0.3	2400	0.21~0.3	2400	0.21~0.3	1900	0.21~0.3	2400	0.21~0.3	2000	0.21~0.3
14	2300	0.22~0.35	2050	0.22~0.35	2050	0.22~0.35	1400	0.22~0.35	2050	0.22~0.35	1700	0.22~0.35
16	2000	0.25~0.36	1800	0.25~0.36	1800	0.25~0.36	1200	0.25~0.36	1800	0.25~0.36	1500	0.25~0.36
18	1800	0.28~0.38	1600	0.28~0.38	1600	0.28~0.38	1050	0.28~0.38	1600	0.28~0.38	1350	0.28~0.38
20	1600	0.3~0.4	1450	0.3~0.4	1450	0.3~0.4	950	0.3~0.4	1450	0.3~0.4	1200	0.3~0.4

- 1.此切削条件基准表适用于, 水溶性切削油剂。
- 2.请使用稀释20倍以下的优质水溶性切削油剂。
- 3.使用油性切削油剂或者稀释倍率低于20倍时, 切削速度请下调30%。
- 4.此切削条件基准表适用于孔深在3D 以下的情况。
- 5.安装钻头时, 请将钻头振动抑制0.02mm 以下。
- 6.油污堵塞会造成折损, 因此供油装置务必安装过滤网。
7. 机器转速无法达到上述切削速度时, 请尽可能使用高转速。另外, 此情况可能会导致寿命降低。

1. The indicated speeds and feeds are for drilling with water-soluble oil.
2. Suitable cutting fluid is water-soluble high density oil (less than 20 times dilution).
3. When using non-water-soluble oil or water-soluble oil (over 20 times dilution), reduce cutting speed by 30%.
4. These conditions are for drilling depth under 3 times the drill diameter.
5. When attaching drill to the machine, use a collet that does not have any scratch or dust. Also, reduce run-out of drill under 0.02mm.
6. Fasten the work material to reduce the possibility of work deformation, deflection of machined surface, or vibration.
7. For machines that cannot achieve the speeds indicated in the table please set rotation as high as possible. Tool life may be decreased.

CCD- HIGH PERFORMANCE DRILLS 5D (END MILL SHANK)

CCD 高性能合金钻头 5D (定柄)



•直径范围 Tool dia: D3.0-D20.0mm

•直径公差 Dia tolerance: h8

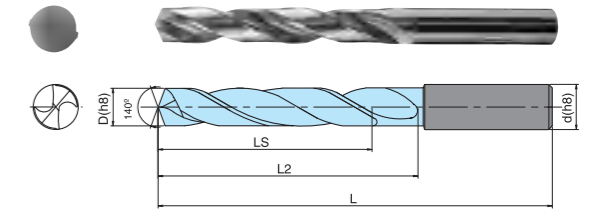
•尺寸标准: Standard: DIN6537

•采用超微细颗粒硬质合金圆棒

Micro Grain Tungsten Carbide

•新开发复合涂层, 增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit



加工材料 Work Material																				
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热线 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC			铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber	
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○最适合 ○适合

单位:(mm)							
型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD5030	●	3.0	28	66	4	23	56.00
CCD5031	●	3.1	28	66	4	23	56.00
CCD5032	●	3.2	28	66	4	23	56.00
CCD5033	●	3.3	28	66	4	23	56.00
CCD5034	●	3.1	28	66	4	23	56.00
CCD5035	●	3.5	28	66	4	23	56.00
CCD5036	●	3.6	28	66	4	23	56.00
CCD5037	●	3.7	28	66	4	23	56.00
CCD5038	●	3.8	36	66	4	29	56.00
CCD5039	●	3.9	36	66	4	29	56.00
CCD5040	●	4.0	36	66	4	29	56.00
CCD5041	●	4.1	36	74	6	29	100.00
CCD5042	●	4.2	36	74	6	29	100.00
CCD5043	●	4.3	36	74	6	29	100.00
CCD5044	●	4.4	36	74	6	29	100.00
CCD5045	●	4.5	36	74	6	29	100.00
CCD5046	●	4.6	36	74	6	29	100.00
CCD5047	●	4.7	36	74	6	29	100.00
CCD5048	●	4.8	44	82	6	35	100.00
CCD5049	●	4.9	44	82	6	35	100.00
CCD5050	●	5.0	44	82	6	35	100.00
CCD5051	●	5.1	44	82	6	35	100.00
CCD5052	●	5.2	44	82	6	35	100.00
CCD5053	●	5.3	44	82	6	35	100.00
CCD5054	●	5.4	44	82	6	35	100.00
CCD5055	●	5.5	44	82	6	35	100.00
CCD5056	●	5.6	44	82	6	35	100.00
CCD5057	●	5.7	44	82	6	35	100.00
CCD5058	●	5.8	44	82	6	35	100.00
CCD5059	●	5.9	44	82	6	35	100.00
CCD5060	●	6.0	44	82	6	35	100.00
CCD5061	●	6.1	53	91	8	43	154.00
CCD5062	●	6.2	53	91	8	43	154.00
CCD5063	●	6.3	53	91	8	43	154.00
CCD5064	●	6.4	53	91	8	43	154.00
CCD5065	●	6.5	53	91	8	43	154.00
CCD5066	●	6.6	53	91	8	43	154.00
CCD5067	●	6.7	53	91	8	43	154.00
CCD5068	●	6.8	53	91	8	43	154.00
CCD5069	●	6.9	53	91	8	43	154.00
CCD5070	●	7.0	53	91	8	43	154.00
CCD5071	●	7.1	53	91	8	43	154.00
CCD5072	●	7.2	53	91	8	43	154.00
CCD5073	●	7.3	53	91	8	43	154.00
CCD5074	●	7.4	53	91	8	43	154.00
CCD5075	●	7.5	53	91	8	43	154.00
CCD5076	●	7.6	53	91	8	43	154.00
CCD5077	●	7.7	53	91	8	43	154.00
CCD5078	●	7.8	53	91	8	43	154.00
CCD5079	●	7.9	53	91	8	43	154.00

●标准库存 ○订单生产

单位:(mm)							
型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD5080	●	8.0	53	91	8	43	154.00
CCD5081	●	8.1	61	103	10	49	226.00
CCD5082	●	8.2	61	103	10	49	226.00
CCD5083	●	8.3	61	103	10	49	226.00
CCD5084	●	8.4	61	103	10	49	226.00
CCD5085	●	8.5	61	103	10	49	226.00
CCD5086	●	8.6	61	103	10	49	226.00
CCD5087	●	8.7	61	103	10	49	226.00
CCD5088	●	8.8	61	103	10	49	226.00
CCD5089	●	8.9	61	103	10	49	226.00
CCD5090	●	9.0	61	103	10	49	226.00
CCD5091	●	9.1	61	103	10	49	226.00
CCD5092	●	9.2	61	103	10	49	226.00
CCD5093	●	9.3	61	103	10	49	226.00
CCD5094	●	9.4	61	103	10	49	226.00
CCD5095	●	9.5	61	103	10	49	226.00
CCD5096	●	9.6	61	103	10	49	226.00
CCD5097	●	9.7	61	103	10	49	226.00
CCD5098	●	9.8	61	103	10	49	226.00
CCD5099	●	9.9	61	103	10	49	226.00
CCD5100	●	10.0	61	103	10	49	226.00
CCD5101	●	10.1	71	118	12	56	310.00
CCD5102	●	10.2	71	118	12	56	310.00
CCD5103	●	10.3	71	118			

CCD- HIGH PERFORMANCE DRILLS 5D (END MILL SHANK)

CCD 高性能合金钻头 5D (定柄)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD5130	●	13.0	77	124	14	60	406.00
CCD5131	●	13.1	77	124	14	60	406.00
CCD5132	●	13.2	77	124	14	60	406.00
CCD5133	●	13.3	77	124	14	60	406.00
CCD5134	●	13.4	77	124	14	60	406.00
CCD5135	●	13.5	77	124	14	60	406.00
CCD5136	●	13.6	77	124	14	60	406.00
CCD5137	●	13.7	77	124	14	60	406.00
CCD5138	●	13.8	77	124	14	60	406.00
CCD5139	●	13.9	77	124	14	60	406.00
CCD5140	●	14.0	77	124	14	60	406.00
CCD5141	●	14.1	83	133	16	63	518.00
CCD5142	●	14.2	83	133	16	63	518.00
CCD5143	●	14.3	83	133	16	63	518.00
CCD5144	●	14.4	83	133	16	63	518.00
CCD5145	●	14.5	83	133	16	63	518.00
CCD5146	●	14.6	83	133	16	63	518.00
CCD5147	●	14.7	83	133	16	63	518.00
CCD5148	●	14.8	83	133	16	63	518.00
CCD5149	●	14.9	83	133	16	63	518.00

●标准库存 ○订单生产

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
CCD5150	●	15.0	83	133	16	63	518.00
CCD5151	●	15.1	83	133	16	63	518.00
CCD5152	●	15.2	83	133	16	63	518.00
CCD5153	●	15.3	83	133	16	63	518.00
CCD5154	●	15.4	83	133	16	63	518.00
CCD5155	●	15.5	83	133	16	63	518.00
CCD5156	●	15.6	83	133	16	63	518.00
CCD5157	●	15.7	83	133	16	63	518.00
CCD5158	●	15.8	83	133	16	63	518.00
CCD5159	●	15.9	83	133	16	63	518.00
CCD5160	●	16.0	83	133	16	63	518.00
CCD5165	●	16.5	93	143	18	71	652.00
CCD5170	●	17.0	93	143	18	71	652.00
CCD5175	●	17.5	93	143	18	71	652.00
CCD5180	●	18.0	93	143	18	71	652.00
CCD5185	●	18.5	101	153	20	77	810.00
CCD5190	●	19.0	101	153	20	77	810.00
CCD5195	●	19.5	101	153	20	77	810.00
CCD5200	●	20.0	101	153	20	77	810.00

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	低炭素鋼 C<0.3% Low Carbon Steel		炭素鋼 ~210HB Carbon Steel		合金鋼 16~28HRC Alloy Steel		合金鋼 28~35HRC Alloy Steel		灰口铸铁 Cast iron		球墨铸铁 Ductile Cast iron	
	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev	进给量 Feed mm/rev
2	12000	0.06~0.08	10400	0.06~0.08	10400	0.06~0.08	8800	0.06~0.08	10400	0.06~0.08	9600	0.06~0.08
4	8000	0.08~0.16	7200	0.08~0.16	7200	0.08~0.16	5600	0.08~0.16	7200	0.08~0.16	6000	0.08~0.16
6	5300	0.12~0.24	4800	0.12~0.24	4800	0.12~0.24	3700	0.12~0.24	4800	0.12~0.24	4000	0.12~0.24
8	4000	0.16~0.28	3600	0.16~0.28	3600	0.16~0.28	2800	0.16~0.28	3600	0.16~0.28	3000	0.16~0.28
10	3200	0.2~0.3	2900	0.2~0.3	2900	0.2~0.3	2200	0.2~0.3	2900	0.2~0.3	2400	0.2~0.3
12	2700	0.21~0.3	2400	0.21~0.3	2400	0.21~0.3	1900	0.21~0.3	2400	0.21~0.3	2000	0.21~0.3
14	2300	0.22~0.35	2050	0.22~0.35	2050	0.22~0.35	1400	0.22~0.35	2050	0.22~0.35	1700	0.22~0.35
16	2000	0.25~0.36	1800	0.25~0.36	1800	0.25~0.36	1200	0.25~0.36	1800	0.25~0.36	1500	0.25~0.36
18	1800	0.28~0.38	1600	0.28~0.38	1600	0.28~0.38	1050	0.28~0.38	1600	0.28~0.38	1350	0.28~0.38
20	1600	0.3~0.4	1450	0.3~0.4	1450	0.3~0.4	950	0.3~0.4	1450	0.3~0.4	1200	0.3~0.4

- 1.此切削条件基准表适用于。水溶性切削油剂。
- 2.请使用稀释20倍以下的优质水溶性切削油剂。
- 3.使用油性切削油剂或者稀释倍率低于20倍时，切削速度请下调30%。
- 4.此切削条件基准表适用于孔深在3D 以下的情况。
- 5.安装钻头时，请将钻头振动抑制0.02mm 以下。
- 6.油污堵塞会造成折损，因此供油装置务必安装过滤网。
- 7.机器转速无法达到上述切削速度时，请尽可能使用高转速。另外，此情况可能会导致寿命降低。

1. The indicated speeds and feeds are for drilling with water-soluble oil.
2. Suitable cutting fluid is water-soluble high density oil (less than 20 times dilution).
3. When using non-water-soluble oil or water-soluble oil (over 20 times dilution), reduce cutting speed by 30%.
4. These conditions are for drilling depth under 3 times the drill diameter.
5. When attaching drill to the machine, use a collet that does not have any scratch or dust. Also, reduce run-out of drill under 0.02mm.
6. Fasten the work material to reduce the possibility of work deformation, deflection of machined surface, or vibration.
7. For machines that cannot achieve the speeds indicated in the table please set rotation as high as possible. Tool life may be decreased.

HKD- HIGH PERFORMANCE DRILLS WITH OIL HOLE 3D (END MILL SHANK)

HKD 高性能内冷合金钻头 3D (定柄)



●直径范围 Tool dia: D3.0-D20.0mm

●直径公差 Dia tolerance:h8

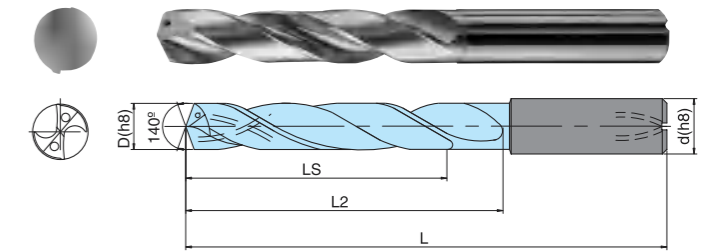
●尺寸标准: Standard: DIN6537

●采用超微细颗粒硬质合金圆棒

Micro Grain Tungsten Carbide

●新开发复合涂层，增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit



加工材料 Work Material																			
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre- Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC			铸铁 Cast iron	钛合金 Titanium Alloy	高温 合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程 塑料 Plastics	玻璃 纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber

○最适合 ○适合

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD3030	○	3.0	20	62	6	14	
HKD3031	○	3.1	20	62	6	14	
HKD3032	○	3.2	20	62	6	14	
HKD3033	○	3.3	20	62	6	14	
HKD3034	○	3.1	20	62	6	14	
HKD3035	○	3.5	20	62	6	14	
HKD3036	○	3.6	20	62	6	14	
HKD3037	○	3.7	20	62	6	14	
HKD3038	○	3.8	24	66	6	17	
HKD3039	○	3.9	24	66	6	17	
HKD3040	○	4.0	24	66	6	17	
HKD3041	○	4.1	24	66	6	17	
HKD3042	○	4.2	24	66	6	17	
HKD3043	○	4.3	24	66	6	17	
HKD3044	○	4.4	24	66	6	17	
HKD3045	○	4.5	24	66	6	17	
HKD3046	○	4.6	24	66	6	17	
HKD3047	○	4.7	24	66	6	17	
HKD3048	○	4.8	28	66	6	20	
HKD3049	○	4.9	28	66	6	20	
HKD3050	○	5.0	28	66	6	20	
HKD3051	○	5.1	28	66	6	20	
HKD3052	○	5.2	28	66	6	20	
HKD3053	○	5.3	28	66	6	20	
HKD3054	○	5.4	28	66	6	20	
HKD3055	○	5.5	28	66	6	20	
HKD3056	○	5.6	28	66	6	20	
HKD3057	○	5.7	28	66	6	20	
HKD3058	○	5.8	28	66	6	20	
HKD3059	○	5.9	28	66	6	20	
HKD3060	○	6.0	28	66	6	20	
HKD3061	○	6.1	34	79	8	24	
HKD3062	○	6.2	34	79	8	24	
HKD3063	○	6.3	34	79	8	24	
HKD3064	○	6.4	34	79	8	24	
HKD3065	○	6.5	34	79	8	24	
HKD3066	○	6.6	34	79	8	24	
HKD3067	○	6.7	34	79	8	24	
HKD3068	○	6.8	34	79	8	24	
HKD3069	○	6.9	34	79	8	24	
HKD3070	○	7.0	34	79	8	24	
HKD3071	○	7.1	41	79	8	29	
HKD3072	○	7.2	41	79	8	29	
HKD3073	○	7.3	41	79	8	29	
HKD3074	○	7.4	41	79	8	29	
HKD3075	○	7.5	41	79	8	29	
HKD3076	○	7.6	41	79	8	29	
HKD3077	○	7.7	41	79	8	29	
HKD3078	○	7.8	41	79	8	29	
HKD3079	○	7.9	41	79	8	29	

●标准库存 ○订单生产

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD3080	○	8.0	41	79	8	29	
HKD3081	○	8.1	47	89	10	35	
HKD3082	○	8.2	47	89	10	35	
HKD3083	○	8.3	47	89	10	35	
HKD3084	○	8.4	47	89	10	35	
HKD3085	○	8.5	47	89	10	35	
HKD3086	○	8.6	47	89	10	35	
HKD3087	○	8.7	47	89	10	35	
HKD3088	○	8.8	47	89	10	35	
HKD3089	○	8.9	47	89	10	35	
HKD3090	○	9.0	47	89	10	35	
HKD3091	○	9.1	47	89	10	35	
HKD3092	○	9.2	47	89	10	35	
HKD3093	○	9.3	47	89	10	35	
HKD3094	○	9.4	47	89	10	35	
HKD3095	○	9.5	47	89	10	35	
HKD3096	○	9.6	47	89	10	35	
HKD3097	○	9.7	47	89	10	35	
HKD3098	○	9.8	47	89	10	35	
HKD3099	○	9.9	47	89	10	35	
HKD3100	○	10.0	47	89	10	35	
HKD3101	○	10.1	55	102	12	40	
HKD3102	○	10.2	55	102	12	40	
HKD3103	○	10.3	55	102	12	40	
HKD3104	○	10.4	55	102	12	40	
HKD3105	○	10.5	55	102	12	40	
HKD3106	○	10.6	55	102	12	40	
HKD3107	○	10.7	55	102	12	40	
HKD3108	○	10.8	55	102	12	40	
HKD3109	○	10.9	55	102	12	40	
HKD3110	○	11.0	55	102	12	40	
HKD3111	○	11.1	55	102	12	40	
HKD3112	○	11.2	55	102	12		

HKD- HIGH PERFORMANCE DRILLS 3D WITH OIL HOLE (END MILL SHANK) HKD 高性能内冷合金钻头 3D (定柄)

单位(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD3130	○	13.0	60	107	14	43	
HKD3131	○	13.1	60	107	14	43	
HKD3132	○	13.2	60	107	14	43	
HKD3133	○	13.3	60	107	14	43	
HKD3134	○	13.4	60	107	14	43	
HKD3135	○	13.5	60	107	14	43	
HKD3136	○	13.6	60	107	14	43	
HKD3137	○	13.7	60	107	14	43	
HKD3138	○	13.8	60	107	14	43	
HKD3139	○	13.9	60	107	14	43	
HKD3140	○	14.0	60	107	14	43	
HKD3141	○	14.1	65	115	16	45	
HKD3142	○	14.2	65	115	16	45	
HKD3143	○	14.3	65	115	16	45	
HKD3144	○	14.4	65	115	16	45	
HKD3145	○	14.5	65	115	16	45	
HKD3146	○	14.6	65	115	16	45	
HKD3147	○	14.7	65	115	16	45	
HKD3148	○	14.8	65	115	16	45	
HKD3149	○	14.9	65	115	16	45	

●标准库存 ○订单生产

单位(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD3150	○	15.0	65	115	16	45	
HKD3151	○	15.1	65	115	16	45	
HKD3152	○	15.2	65	115	16	45	
HKD3153	○	15.3	65	115	16	45	
HKD3154	○	15.4	65	115	16	45	
HKD3155	○	15.5	65	115	16	45	
HKD3156	○	15.6	65	115	16	45	
HKD3157	○	15.7	65	115	16	45	
HKD3158	○	15.8	65	115	16	45	
HKD3159	○	15.9	65	115	16	45	
HKD3160	○	16.0	65	115	16	45	
HKD3165	○	16.5	73	123	18	51	
HKD3170	○	17.0	73	123	18	51	
HKD3175	○	17.5	73	123	18	51	
HKD3180	○	18.0	73	123	18	51	
HKD3185	○	18.5	79	131	20	55	
HKD3190	○	19.0	79	131	20	55	
HKD3195	○	19.5	79	131	20	55	
HKD3200	○	20.0	79	131	20	55	

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	低炭素鋼 ~150HB Low Carbon Steel		炭素鋼 ~210HB Carbon Steel		合金鋼 16~28HRC Alloy Steel		合金鋼 28~35HRC Alloy Steel		灰口铸铁 Cast iron		球墨铸铁 Ductile Cast iron		不锈钢 Stainless Steel		调质钢 34~40HRC Hardened Steel	
	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev
3	10600	0.06~0.12	10600	0.06~0.12	10600	0.06~0.12	7400	0.06~0.12	10600	0.06~0.12	8500	0.06~0.12	6400	0.06~0.12	4800	0.06~0.09
4	8000	0.08~0.16	8000	0.08~0.16	8000	0.08~0.16	5600	0.08~0.16	8000	0.08~0.16	6400	0.08~0.16	4800	0.08~0.16	3600	0.08~0.12
5	6400	0.1~0.2	6400	0.1~0.2	6400	0.1~0.2	4500	0.1~0.2	6400	0.1~0.2	5100	0.1~0.2	3800	0.1~0.2	2900	0.1~0.15
6	5300	0.12~0.24	5300	0.12~0.24	5300	0.12~0.24	3700	0.12~0.24	5300	0.12~0.24	4200	0.12~0.24	3200	0.12~0.24	2400	0.12~0.18
7	4500	0.14~0.26	4500	0.14~0.26	4500	0.14~0.26	3200	0.14~0.26	4500	0.14~0.26	3600	0.14~0.26	2700	0.14~0.26	2000	0.14~0.21
8	4000	0.16~0.28	4000	0.16~0.28	4000	0.16~0.28	2800	0.16~0.28	4000	0.16~0.28	3200	0.16~0.28	2400	0.16~0.28	1800	0.16~0.24
9	3500	0.18~0.3	3500	0.18~0.3	3500	0.18~0.3	2500	0.18~0.3	3500	0.18~0.3	2800	0.18~0.3	2100	0.18~0.3	1600	0.18~0.27
10	3200	0.2~0.3	3200	0.2~0.3	3200	0.2~0.3	2200	0.2~0.3	3200	0.2~0.3	2500	0.2~0.3	1900	0.2~0.3	1400	0.2~0.3
11	2900	0.2~0.3	2900	0.2~0.3	2900	0.2~0.3	2000	0.2~0.3	2900	0.2~0.3	2300	0.2~0.3	1700	0.2~0.3	1300	0.2~0.3
12	2700	0.21~0.3	2700	0.21~0.3	2700	0.21~0.3	1900	0.21~0.3	2700	0.21~0.3	2100	0.21~0.3	1600	0.21~0.3	1200	0.21~0.3
13	2400	0.21~0.33	2400	0.21~0.33	2400	0.21~0.33	1700	0.21~0.33	2400	0.21~0.33	2000	0.21~0.33	1500	0.21~0.33	1100	0.21~0.33
14	2300	0.22~0.35	2300	0.22~0.35	2300	0.22~0.35	1600	0.22~0.35	2300	0.22~0.35	1800	0.22~0.35	1400	0.22~0.35	1000	0.22~0.35
16	2000	0.25~0.36	2000	0.25~0.36	2000	0.25~0.36	1400	0.25~0.36	2000	0.25~0.36	1600	0.25~0.36	1200	0.25~0.36	900	0.25~0.36
18	1800	0.28~0.38	1800	0.28~0.38	1800	0.28~0.38	1200	0.28~0.38	1800	0.28~0.38	1400	0.28~0.38	1100	0.28~0.38	800	0.28~0.38
20	1600	0.3~0.4	1600	0.3~0.4	1600	0.3~0.4	1100	0.3~0.4	1600	0.3~0.4	1300	0.3~0.4	1000	0.3~0.4	700	0.3~0.4

1. 此切削条件基准表适用于，水溶性切削油剂。
2. 请使用稀释20倍以下的优质水溶性切削油剂。
3. 使用油性切削油剂或者稀释倍率低于20倍时，切削速度请下调30%。
4. 此切削条件基准表适用于孔深在3D 以下的情况。
5. 安装钻头时，请将钻头振动抑制0.02mm 以下。
6. 油污堵塞会造成折损，因此供油装置务必安装过滤网。
7. 机器转速无法达到上述切削速度时，请尽可能使用高转速。
另外，此情况可能会导致寿命降低。

1. The indicated speeds and feeds are for drilling with water-soluble oil.
2. Suitable cutting fluid is water-soluble high density oil (less than 20 times dilution).
3. When using non-water-soluble oil or water-soluble oil (over 20 times dilution), reduce cutting speed by 30%.
4. These conditions are for drilling depth under 3 times the drill diameter.
5. When attaching drill to the machine, use a collet that does not have any scratch or dust. Also, reduce run-out of drill under 0.02mm.
6. Fasten the work material to reduce the possibility of work deformation, deflection of machined surface, or vibration.
7. For machines that cannot achieve the speeds indicated in the table please set rotation as high as possible. Tool life may be decreased.

www.kovestool.cn

HKD- HIGH PERFORMANCE DRILLS WITH OIL HOLE 5D (END MILL SHANK) HKD 高性能内冷合金钻头 5D (定柄)



●直径范围 Tool dia: D3.0-D20.0mm

●直径公差 Dia tolerance: h8

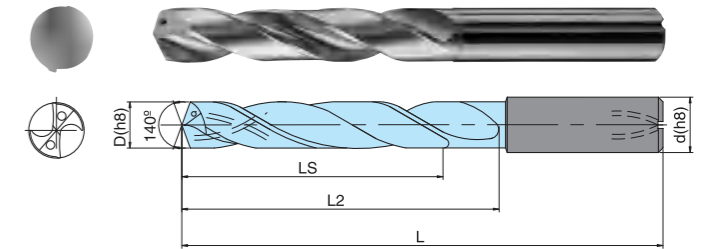
●尺寸标准: Standard: DIN6537

●采用超微细颗粒硬质合金圆棒

Micro Grain Tungsten Carbide

●新开发复合涂层，增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit



加工材料 Work Material

碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber	
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○最适合 ○适合

单位(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD5030	○	3.0	28	66	6	23	
HKD5031	○	3.1	28	66	6	23	
HKD5032	○	3.2	28	66	6	23	
HKD5033	○	3.3	28	66	6	23	
HKD5034	○	3.1	28	66	6	23	
HKD5035	○	3.5	28	66	6	23	
HKD5036	○	3.6	28	66	6	23	
HKD5037	○	3.7	28	66	6	23	
HKD5038	○	3.8	36	74	6	29	
HKD5039	○	3.9	36	74	6	29	
HKD5040	○	4.0	36	74	6	29	
HKD5041	○	4.1	36	74	6	29	
HKD5042	○	4.2	36	74	6	29	
HKD5043	○	4.3	36	74	6	29	
HKD5044	○	4.4	36	74	6	29	
HKD5045	○	4.5	36	74	6	29	
HKD5046	○	4.6	36	74	6	29	
HKD5047	○	4.7	36	74	6	29	
HKD5048	○	4.8	44	82	6	35	
HKD5049	○	4.9	44	82	6	35	
HKD5050	○	5.0	44	82	6	35	
HKD5051	○	5.1	44	82	6	35	
HKD5052	○	5.2	44	82	6	35	
HKD5053	○	5.3	44	82	6	35	
HKD5054	○	5.4	44	82	6	35	
HKD5055	○	5.5	44	82	6	35	
HKD5056	○	5.6	44	82	6	35	
HKD5057	○	5.7	44	82	6	35	
HKD5058	○	5.8	44	82	6	35	
HKD5059	○	5.9	44	82	6	35	
HKD5060	○	6.0	44	82	6	35	
HKD5061	○	6.1	53	91	8	43	
HKD5062	○	6.2	53	91	8	43	
HKD5063	○	6.3	53	91	8	43	
HKD5064	○	6.4	53	91	8	43	
HKD5065	○	6.5	53	91	8	43	
HKD5066	○	6.6	53	91	8	43	
HKD5067	○	6.7	53	91	8	43	
HKD5068	○	6.8	53	91	8	43	
HKD5069	○	6.9	53	91	8	43	
HKD5070	○	7.0	53	91	8	43	
HKD5071	○	7.1	53	91	8	43	
HKD5072	○	7.2	53	91	8	43	
HKD5073	○	7.3	53	91	8	43	
HKD5074	○	7.4	53	91	8	43	
HKD5075	○	7.5	53	91	8	43	
HKD5076	○	7.6	53	91	8	43	
HKD5077	○	7.7	53	91	8	43	
HKD5078	○	7.8	53	91	8	43	
HKD5079	○	7.9	53	91	8	43	

●标准库存 ○订单生产

www.kovestool.cn

单位(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD5080	○	8.0	53	91	8	43	
HKD5081	○	8.1	61	103	10	49	
HKD5082	○	8.2	61	103	10	49	
HKD5083	○	8.3	61	103	10	49	
HKD5084	○	8.4	61	103	10	49	
HKD5085	○	8.5	61	103	10	49	
HKD5086	○	8.6	61	103	10	49	
HKD5087	○	8.7	61	103	10	49	
HKD5088	○	8.8	61	103	10	49	
HKD5089	○	8.9	61	103	10	49	
HKD5090	○	9.0	61	103	10	49	
HKD5091	○	9.1	61	103	10	49	
HKD5092	○	9.2	61	103	10	49	
HKD5093	○	9.3	61	103	10	49	
HKD5094	○	9.4	61	103	10	49	
HKD5095	○	9.5	61	103	10	49	
HKD5096	○	9.6	61	103	10	49	
HKD5097	○	9.7	61	103	10	4	

HKD- HIGH PERFORMANCE DRILLS 5D WITH OIL HOLE (END MILL SHANK) HKD 高性能内冷合金钻头 5D (定柄)

单位:(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD5130	○	13.0	77	124	14	60	
HKD5131	○	13.1	77	124	14	60	
HKD5132	○	13.2	77	124	14	60	
HKD5133	○	13.3	77	124	14	60	
HKD5134	○	13.4	77	124	14	60	
HKD5135	○	13.5	77	124	14	60	
HKD5136	○	13.6	77	124	14	60	
HKD5137	○	13.7	77	124	14	60	
HKD5138	○	13.8	77	124	14	60	
HKD5139	○	13.9	77	124	14	60	
HKD5140	○	14.0	77	124	14	60	
HKD5141	○	14.1	83	133	16	63	
HKD5142	○	14.2	83	133	16	63	
HKD5143	○	14.3	83	133	16	63	
HKD5144	○	14.4	83	133	16	63	
HKD5145	○	14.5	83	133	16	63	
HKD5146	○	14.6	83	133	16	63	
HKD5147	○	14.7	83	133	16	63	
HKD5148	○	14.8	83	133	16	63	
HKD5149	○	14.9	83	133	16	63	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD5150	○	15.0	83	133	16	63	
HKD5151	○	15.1	83	133	16	63	
HKD5152	○	15.2	83	133	16	63	
HKD5153	○	15.3	83	133	16	63	
HKD5154	○	15.4	83	133	16	63	
HKD5155	○	15.5	83	133	16	63	
HKD5156	○	15.6	83	133	16	63	
HKD5157	○	15.7	83	133	16	63	
HKD5158	○	15.8	83	133	16	63	
HKD5159	○	15.9	83	133	16	63	
HKD5160	○	16.0	83	133	16	63	
HKD5165	○	16.5	93	143	18	71	
HKD5170	○	17.0	93	143	18	71	
HKD5175	○	17.5	93	143	18	71	
HKD5180	○	18.0	93	143	18	71	
HKD5185	○	18.5	101	153	20	77	
HKD5190	○	19.0	101	153	20	77	
HKD5195	○	19.5	101	153	20	77	
HKD5200	○	20.0	101	153	20	77	

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	低炭素鋼 ~150HB Low Carbon Steel		炭素鋼 ~210HB Carbon Steel		合金鋼 16~28HRC Alloy Steel		合金鋼 28~35HRC Alloy Steel		灰口铸铁 Cast iron		球墨铸铁 Ductile Cast iron		不锈钢 Stainless Steel		调质鋼 34~40HRC Hardened Steel	
	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev
3	10600	0.06~0.12	10600	0.06~0.12	10600	0.06~0.12	7400	0.06~0.12	10600	0.06~0.12	8500	0.06~0.12	6400	0.06~0.12	4800	0.06~0.09
4	8000	0.08~0.16	8000	0.08~0.16	8000	0.08~0.16	5600	0.08~0.16	8000	0.08~0.16	6400	0.08~0.16	4800	0.08~0.16	3600	0.08~0.12
5	6400	0.1~0.2	6400	0.1~0.2	6400	0.1~0.2	4500	0.1~0.2	6400	0.1~0.2	5100	0.1~0.2	3800	0.1~0.2	2900	0.1~0.15
6	5300	0.12~0.24	5300	0.12~0.24	5300	0.12~0.24	3700	0.12~0.24	5300	0.12~0.24	4200	0.12~0.24	3200	0.12~0.24	2400	0.12~0.18
7	4500	0.14~0.26	4500	0.14~0.26	4500	0.14~0.26	3200	0.14~0.26	4500	0.14~0.26	3600	0.14~0.26	2700	0.14~0.26	2000	0.14~0.21
8	4000	0.16~0.28	4000	0.16~0.28	4000	0.16~0.28	2800	0.16~0.28	4000	0.16~0.28	3200	0.16~0.28	2400	0.16~0.28	1800	0.16~0.24
9	3500	0.18~0.3	3500	0.18~0.3	3500	0.18~0.3	2500	0.18~0.3	3500	0.18~0.3	2800	0.18~0.3	2100	0.18~0.3	1600	0.18~0.27
10	3200	0.2~0.3	3200	0.2~0.3	3200	0.2~0.3	2200	0.2~0.3	3200	0.2~0.3	2500	0.2~0.3	1900	0.2~0.3	1400	0.2~0.3
11	2900	0.2~0.3	2900	0.2~0.3	2900	0.2~0.3	2000	0.2~0.3	2900	0.2~0.3	2300	0.2~0.3	1700	0.2~0.3	1300	0.2~0.3
12	2700	0.21~0.3	2700	0.21~0.3	2700	0.21~0.3	1900	0.21~0.3	2700	0.21~0.3	2100	0.21~0.3	1600	0.21~0.3	1200	0.21~0.3
13	2400	0.21~0.33	2400	0.21~0.33	2400	0.21~0.33	1700	0.21~0.33	2400	0.21~0.33	2000	0.21~0.33	1500	0.21~0.33	1100	0.21~0.33
14	2300	0.22~0.35	2300	0.22~0.35	2300	0.22~0.35	1600	0.22~0.35	2300	0.22~0.35	1800	0.22~0.35	1400	0.22~0.35	1000	0.22~0.35
16	2000	0.25~0.36	2000	0.25~0.36	2000	0.25~0.36	1400	0.25~0.36	2000	0.25~0.36	1600	0.25~0.36	1200	0.25~0.36	900	0.25~0.36
18	1800	0.28~0.38	1800	0.28~0.38	1800	0.28~0.38	1200	0.28~0.38	1800	0.28~0.38	1400	0.28~0.38	1100	0.28~0.38	800	0.28~0.38
20	1600	0.3~0.4	1600	0.3~0.4	1600	0.3~0.4	1100	0.3~0.4	1600	0.3~0.4	1300	0.3~0.4	1000	0.3~0.4	700	0.3~0.4

1. 此切削条件基准表适用于，水溶性切削油剂。
2. 请使用稀释20倍以下的优质水溶性切削油剂。
3. 使用油性切削油剂或者稀释倍率低于20倍时，切削速度请下调30%。
4. 此切削条件基准表适用于孔深在3D以下的情况。
5. 安装钻头时，请将钻头振动抑制0.02mm以下。
6. 油污堵塞会造成折损，因此供油装置务必安装过滤网。
7. 机器转速无法达到上述切削速度时，请尽可能使用高转速。
另外，此情况可能会导致寿命降低。

1. The indicated speeds and feeds are for drilling with water-soluble oil.
2. Suitable cutting fluid is water-soluble high density oil (less than 20 times dilution).
3. When using non-water-soluble oil or water-soluble oil (over 20 times dilution), reduce cutting speed by 30%.
4. These conditions are for drilling depth under 3 times the drill diameter.
5. When attaching drill to the machine, use a collet that does not have any scratch or dust. Also, reduce run-out of drill under 0.02mm.
6. Fasten the work material to reduce the possibility of work deformation, deflection of machined surface, or vibration.
7. For machines that cannot achieve the speeds indicated in the table please set rotation as high as possible. Tool life may be decreased.

HKD- HIGH PERFORMANCE DRILLS WITH OIL HOLE 8D (END MILL SHANK) HKD 高性能内冷合金钻头 8D (定柄)



●直径范围 Tool dia: D3.0-D20.0mm

●直径公差 Dia tolerance:h8

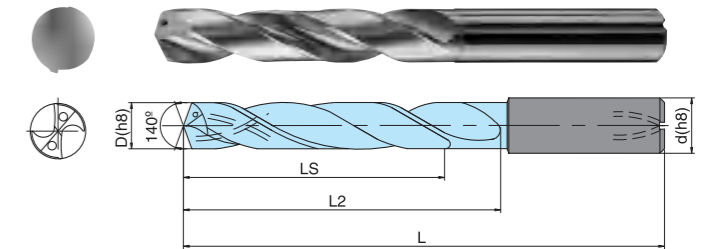
●尺寸标准: Standard: DIN6537

●采用超微细颗粒硬质合金圆棒

Micro Grain Tungsten Carbide

●新开发复合涂层，增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit



加工材料 Work Material

碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber	
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○最适合 ○适合

单位:(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD8030	○	3.0	34	72	6	29	
HKD8031	○	3.1	34	72	6	29	
HKD8032	○	3.2	34	72	6	29	
HKD8033	○	3.3	34	72	6	29	
HKD8034	○	3.4	34	72	6	29	
HKD8035	○	3.5	34	72	6	29	
HKD8036	○	3.6	34	72	6	29	
HKD8037	○	3.7	34	72	6	29	
HKD8038	○	3.8	43	81	6	36	
HKD8039	○	3.9	43	81	6	36	
HKD8040	○	4.0	43	81	6	36	
HKD8041	○	4.1	43	81	6	36	
HKD8042	○	4.2	43	81	6	36	
HKD8043	○	4.3	43	81	6	36	
HKD8044	○	4.4	43	81	6	36	
HKD8045	○	4.5	43	81	6	36	
HKD8046	○	4.6	43	81	6	36	
HKD8047	○	4.7	43	81	6	36	
HKD8048	○	4.8	57	95	6	48	
HKD8049	○	4.9	57	95	6	48	
HKD8050	○	5.0	57	95	6	48	
HKD8051	○	5.1	57	95	6	48	
HKD8052	○	5.2	57	95	6	48	
HKD8053	○	5.3	57	95	6	48	
HKD8054	○	5.4	57	95	6	48	
HKD8055	○	5.5	57	95	6	48	
HKD8056	○	5.6	57	95	6	48	
HKD8057	○	5.7	57	95	6	48	
HKD8058	○	5.8	57	95	6	48	
HKD8059	○	5.9	57	95	6	48	
HKD8060	○	6.0	57	95	6	48	
HKD8061	○	6.1	76	114	8	64	
HKD8062	○	6.2	76	114	8	64	
HKD8063	○	6.3	76	114	8	64	
HKD8064	○	6.4	76	114	8	64	
HKD8065	○	6.5	76	114	8	64	
HKD8066	○	6.6	76	114	8	64	
HKD8067	○	6.7	76	114	8	64	
HKD8068	○	6.8	76	114	8	64	
HKD8069	○	6.9	76	114	8	64	
HKD8070	○	7.0	76	114	8	64	
HKD8071	○	7.1	76	114	8	64	
HKD8072	○	7.2	76	114	8	64	
HKD8073	○	7.3	76	114	8	64	
HKD8074	○	7.4	76	114	8	64	
HKD8075	○	7.5	76	114	8	64	
HKD8076	○	7.6	76	114	8	64	
HKD8077	○	7.7	76	114	8	64	
HKD8078	○	7.8	76	114	8	64	
HKD8079	○	7.9	76	114	8	64	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD8080	○	8.0	76	114	8	64	
HKD8081	○	8.1	95	142	10	80	
HKD8082	○	8.2	95	142	10	80	
HKD8083	○	8.3	95	142	10	80	
HKD8084	○	8.4	95	142	10	80	
HKD8085	○	8.5	95	142	10	80	
HKD8086	○	8.6	95	142	10	80	
HKD8087	○	8.7	95	142	10	80	
HKD8088	○	8.8	95	142	10	80	
HKD8089	○	8.9	95	142	10	80	
HKD8090	○	9.0	95	142	10	80	
HKD8091	○	9.1	95	142	10	80	
HKD8092	○	9.2	95	142	10	80	
HKD8093	○	9.3	95	142	10	80	
HKD8094	○	9.4	95	142	10	80	
HKD8095	○	9.5	95	142	10	80	
HKD8096	○	9.6	95	142	10	80	
HKD8097							

HKD- HIGH PERFORMANCE DRILLS 8D WITH OIL HOLE (END MILL SHANK) HKD 高性能内冷合金钻头 8D (定柄)

单位:(mm)							单位:(mm)								
型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB	型号 Model	库存 Stock	直径 Dia D	刃长 Flute length L2	全长 Total length L	柄径 Shank d	槽长 length of cut LS	单价 Price RMB
HKD8130	○	13.0	133	178	14	112		HKD8150	○	15.0	152	203	16	128	
HKD8131	○	13.1	133	178	14	112		HKD8151	○	15.1	152	203	16	128	
HKD8132	○	13.2	133	178	14	112		HKD8152	○	15.2	152	203	16	128	
HKD8133	○	13.3	133	178	14	112		HKD8153	○	15.3	152	203	16	128	
HKD8134	○	13.4	133	178	14	112		HKD8154	○	15.4	152	203	16	128	
HKD8135	○	13.5	133	178	14	112		HKD8155	○	15.5	152	203	16	128	
HKD8136	○	13.6	133	178	14	112		HKD8156	○	15.6	152	203	16	128	
HKD8137	○	13.7	133	178	14	112		HKD8157	○	15.7	152	203	16	128	
HKD8138	○	13.8	133	178	14	112		HKD8158	○	15.8	152	203	16	128	
HKD8139	○	13.9	133	178	14	112		HKD8159	○	15.9	152	203	16	128	
HKD8140	○	14.0	133	178	14	112		HKD8160	○	16.0	152	203	16	128	
HKD8141	○	14.1	152	203	16	128		HKD8165	○	16.5	171	222	18	144	
HKD8142	○	14.2	152	203	16	128		HKD8170	○	17.0	171	222	18	144	
HKD8143	○	14.3	152	203	16	128		HKD8175	○	17.5	171	222	18	144	
HKD8144	○	14.4	152	203	16	128		HKD8180	○	18.0	171	222	18	144	
HKD8145	○	14.5	152	203	16	128		HKD8185	○	18.5	190	243	20	160	
HKD8146	○	14.6	152	203	16	128		HKD8190	○	19.0	190	243	20	160	
HKD8147	○	14.7	152	203	16	128		HKD8195	○	19.5	190	243	20	160	
HKD8148	○	14.8	152	203	16	128		HKD8200	○	20.0	190	243	20	160	
HKD8149	○	14.9	152	203	16	128									

●标准库存 ○订单生产

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

被削材 Work Material	低炭素钢 ~150HB Low Carbon Steel		炭素钢 ~210HB Carbon Steel		合金钢 16~28HRC Alloy Steel		合金钢 28~35HRC Alloy Steel		灰口铸铁 Cast iron		球墨铸铁 Ductile Cast iron		不锈钢 Stainless Steel		调质钢 34~40HRC Hardened Steel	
	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev	切削速度 Cutting Speed mm/min	进给量 Feed mm/rev
3	10600	0.06~0.12	10600	0.06~0.12	10600	0.06~0.12	7400	0.06~0.12	10600	0.06~0.12	8500	0.06~0.12	6400	0.06~0.12	4800	0.06~0.09
4	8000	0.08~0.16	8000	0.08~0.16	8000	0.08~0.16	5600	0.08~0.16	8000	0.08~0.16	6400	0.08~0.16	4800	0.08~0.16	3600	0.08~0.12
5	6400	0.1~0.2	6400	0.1~0.2	6400	0.1~0.2	4500	0.1~0.2	6400	0.1~0.2	5100	0.1~0.2	3800	0.1~0.2	2900	0.1~0.15
6	5300	0.12~0.24	5300	0.12~0.24	5300	0.12~0.24	3700	0.12~0.24	5300	0.12~0.24	4200	0.12~0.24	3200	0.12~0.24	2400	0.12~0.18
7	4500	0.14~0.26	4500	0.14~0.26	4500	0.14~0.26	3200	0.14~0.26	4500	0.14~0.26	3600	0.14~0.26	2700	0.14~0.26	2000	0.14~0.21
8	4000	0.16~0.28	4000	0.16~0.28	4000	0.16~0.28	2800	0.16~0.28	4000	0.16~0.28	3200	0.16~0.28	2400	0.16~0.28	1800	0.16~0.24
9	3500	0.18~0.3	3500	0.18~0.3	3500	0.18~0.3	2500	0.18~0.3	3500	0.18~0.3	2800	0.18~0.3	2100	0.18~0.3	1600	0.18~0.27
10	3200	0.2~0.3	3200	0.2~0.3	3200	0.2~0.3	2200	0.2~0.3	3200	0.2~0.3	2500	0.2~0.3	1900	0.2~0.3	1400	0.2~0.3
11	2900	0.2~0.3	2900	0.2~0.3	2900	0.2~0.3	2000	0.2~0.3	2900	0.2~0.3	2300	0.2~0.3	1700	0.2~0.3	1300	0.2~0.3
12	2700	0.21~0.3	2700	0.21~0.3	2700	0.21~0.3	1900	0.21~0.3	2700	0.21~0.3	2100	0.21~0.3	1600	0.21~0.3	1200	0.21~0.3
13	2400	0.21~0.33	2400	0.21~0.33	2400	0.21~0.33	1700	0.21~0.33	2400	0.21~0.33	2000	0.21~0.33	1500	0.21~0.33	1100	0.21~0.33
14	2300	0.22~0.35	2300	0.22~0.35	2300	0.22~0.35	1600	0.22~0.35	2300	0.22~0.35	1800	0.22~0.35	1400	0.22~0.35	1000	0.22~0.35
16	2000	0.25~0.36	2000	0.25~0.36	2000	0.25~0.36	1400	0.25~0.36	2000	0.25~0.36	1600	0.25~0.36	1200	0.25~0.36	900	0.25~0.36
18	1800	0.28~0.38	1800	0.28~0.38	1800	0.28~0.38	1200	0.28~0.38	1800	0.28~0.38	1400	0.28~0.38	1100	0.28~0.38	800	0.28~0.38
20	1600	0.3~0.4	1600	0.3~0.4	1600	0.3~0.4	1100	0.3~0.4	1600	0.3~0.4	1300	0.3~0.4	1000	0.3~0.4	700	0.3~0.4

- 1.此切削条件基准表适用于，水溶性切削油剂。
- 2.请使用稀释20倍以下的优质水溶性切削油剂。
- 3.使用油性切削油剂或者稀释倍率低于20倍时，切削速度请下调30%。
- 4.此切削条件基准表适用于孔深在3D 以下的情况。
- 5.安装钻头时，请将钻头振动抑制在0.02mm 以下。
- 6.油污堵塞会造成折损，因此供油装置务必安装过滤网。
- 7.机器转速无法达到上述切削速度时，请尽可能使用高转速。另外，此情况可能会导致寿命降低。

1. The indicated speeds and feeds are for drilling with water-soluble oil.
2. Suitable cutting fluid is water-soluble high density oil (less than 20 times dilution).
3. When using non-water-soluble oil or water-soluble oil (over 20 times dilution), reduce cutting speed by 30%.
4. These conditions are for drilling depth under 3 times the drill diameter.
5. When attaching drill to the machine, use a collet that does not have any scratch or dust. Also, reduce run-out of drill under 0.02mm.
6. Fasten the work material to reduce the possibility of work deformation, deflection of machined surface, or vibration.
7. For machines that cannot achieve the speeds indicated in the table please set rotation as high as possible. Tool life may be decreased.

CD- GENERAL DRILLS(STRAIGHT SHANK) CD 普通直柄合金钻头

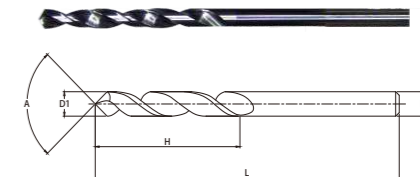


- 直径范围 Tool dia: D0.04-D12.0mm
- 直径公差 Dia tolerance: 0,-0.005mm

- 采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide

- 特别适于工程塑胶、一般钢等软体材料精密的孔加工

Suitable for precision hole machining of soft materials such as engineering plastics and ordinary steel



加工材料 Work Material																	
碳素钢 S45C	合金钢 SK-SCM	预热线 NAK	淬硬钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
Carbon Steel	Alloy Steel	Pre-Hardened Steel	~55 HRC ~60 HRC ~70 HRC														

●最适合 ○适合

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CD0400	○	0.40	5.0	0.40	50	
CD0450	○	0.45	5.0	0.45	50	
CD0500	○	0.50	5.0	0.50	50	
CD0550	○	0.55	5.0	0.55	50	
CD0600	○	0.60	7.0	0.60	50	
CD0650	○	0.65	7.0	0.65	50	
CD0700	○	0.70	10.0	0.70	50	
CD0750	○	0.75	10.0	0.75	50	
CD0800	○	0.80	10.0	0.80	50	
CD0850	○	0.85	10.0	0.85	50	
CD0900	○	0.90	10.0	0.90	50	
CD0950	○	0.95	10.0	0.95	50	
CD1000	○	1.00	12.0	1.00	50	
CD1050	○	1.05	12.0	1.05	50	
CD1100	○	1.10	12.0	1.10	50	
CD1150	○	1.15	12.0	1.15	50	
CD1200	○	1.20	12.0	1.20	50	
CD1250	○	1.25	15.0	1.25	60	
CD1300	○	1.30	15.0	1.30	60	
CD1350	○	1.35	15.0	1.35	60	
CD1400	○	1.40	15.0	1.40	60	
CD1450	○	1.45	15.0	1.45	60	
CD1500	○	1.50	15.0	1.50	60	
CD1550	○	1.55	15.0	1.55	60	
CD1600	○	1.60	15.0	1.60	60	
CD1650	○	1.65	15.0	1.65	60	
CD1700	○	1.70	18.0	1.70	60	
CD1750	○	1.75	18.0	1.75	60	
CD1800	○	1.80	18.0	1.80	60	
CD1850	○	1.85	18.0	1.85	60	
CD1900	○	1.90	18.0	1.90	60	
CD1950	○	1.95	18.0	1.95	60	
CD2000	○	2.00	18.0	2.00	60	
CD2050	○	2.05	20.0	2.05	60	
CD2100	○	2.10	20.0	2.10	60	
CD2150	○	2.15	20.0	2.15	60	
CD2200	○	2.20	20.0	2.20	60	
CD2250	○	2.25	20.0	2.25	60	
CD2300	○	2.30	20.0	2.30	60	
CD2350	○	2.35	20.0	2.35	60	
CD2400	○	2.40	20.0	2.40	60	
CD2450	○	2.45	20.0	2.45	60	

●标准库存 ○订单生产

单位:(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CD2500	○	2.50	20.0	2.50	60	
CD2550	○	2.55	20.0	2.55	60	
CD2600	○	2.60	20.0	2.60	60	
CD2650	○	2.65	20.0	2.65	60	
CD2700	○	2.70	20.0	2.70	60	
CD2750	○	2.75	20.0	2.75	60	
CD2800	○	2.80	20.0	2.80	60	
CD2850	○	2.85	20.0	2.85	60	
CD2900	○	2.90	20.0	2.90	60	
CD2950	○	2.95	20.0	2.95	60	
CD3000	○	3.00	25.0	3.00	75	
CD3050	○	3.05	25.0	3.05	75	
CD3100	○	3.10	25.0	3.10	75	
CD3150	○	3.15	25.0	3.15	75	
CD3200	○	3.20	25.0	3.20	75	
CD3250	○	3.25	25.0	3.25	75	
CD3300	○	3.30	25.0	3.30	75	
CD3350	○	3.35	25.0	3.35	75	
CD3400	○	3.40	25.0	3.40	75	
CD3450	○	3.45	25.0	3.45	75	
CD3500	○	3.50	25.0	3.50	75	
CD3550	○	3.55	25.0	3.55	75	
CD3600	○	3.60	25.0	3.60	75	
CD3650	○	3.65	27.0	3.65	75	
CD3700	○	3.70	27.0	3.70	75	
CD3750	○	3.75	27.0	3.75	75	
CD3800	○	3.80	27.0	3.80	75	
CD3850	○	3.85	27.0	3.85	75	
CD3900	○	3.90	27.0	3.90	75	
CD3950	○	3.95	27.0	3.95	75	
CD4000	○	4				

CD- GENERAL DRILLS(STRAIGHT SHANK)

CD 普通直柄合金钻头

单位(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CD4600	○	4.60	30.0	4.60	100	
CD4650	○	4.65	30.0	4.65	100	
CD4700	○	4.70	30.0	4.70	100	
CD4750	○	4.75	30.0	4.75	100	
CD4800	○	4.80	30.0	4.80	100	
CD4850	○	4.85	30.0	4.85	100	
CD4900	○	4.90	30.0	4.90	100	
CD4950	○	4.95	30.0	4.95	100	
CD5000	○	5.00	40.0	5.00	100	
CD5050	○	5.05	40.0	5.05	100	
CD5100	○	5.10	40.0	5.10	100	
CD5150	○	5.15	40.0	5.15	100	
CD5200	○	5.20	40.0	5.20	100	
CD5250	○	5.25	40.0	5.25	100	
CD5300	○	5.30	40.0	5.30	100	
CD5350	○	5.35	40.0	5.35	100	
CD5400	○	5.40	40.0	5.40	100	
CD5450	○	5.45	40.0	5.45	100	
CD5500	○	5.50	40.0	5.50	100	
CD5550	○	5.55	40.0	5.55	100	
CD6000	○	6.00	40.0	6.00	100	
CD6050	○	6.05	40.0	6.05	100	
CD6100	○	6.10	40.0	6.10	100	
CD6150	○	6.15	40.0	6.15	100	
CD6200	○	6.20	40.0	6.20	100	
CD6250	○	6.25	40.0	6.25	100	
CD6300	○	6.30	40.0	6.30	100	
CD6350	○	6.35	40.0	6.35	100	
CD6400	○	6.40	40.0	6.40	100	
CD6450	○	6.45	40.0	6.45	100	
CD6500	○	6.50	40.0	6.50	100	
CD6550	○	6.55	40.0	6.55	100	
CD6600	○	6.60	40.0	6.60	100	
CD6650	○	6.65	40.0	6.65	100	
CD6700	○	6.70	40.0	6.70	100	
CD6750	○	6.75	40.0	6.75	100	
CD6800	○	6.80	40.0	6.80	100	
CD6850	○	6.85	40.0	6.85	100	
CD6900	○	6.90	40.0	6.90	100	
CD6950	○	6.95	40.0	6.95	100	
CD7000	○	7.00	40.0	7.00	100	
CD7050	○	7.05	40.0	7.05	100	
CD7100	○	7.10	40.0	7.10	100	
CD7150	○	7.15	40.0	7.15	100	
CD7200	○	7.20	40.0	7.20	100	
CD7250	○	7.25	40.0	7.25	100	
CD7300	○	7.30	40.0	7.30	100	
CD7350	○	7.35	40.0	7.35	100	
CD7400	○	7.40	40.0	7.40	100	
CD7450	○	7.45	40.0	7.45	100	
CD7500	○	7.50	40.0	7.50	100	
CD7550	○	7.55	40.0	7.55	100	
CD7600	○	7.60	40.0	7.60	100	
CD7650	○	7.65	40.0	7.65	100	
CD7700	○	7.70	40.0	7.70	100	
CD7750	○	7.75	40.0	7.75	100	
CD7800	○	7.80	40.0	7.80	100	

●标准库存 ○订单生产

单位(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CD7850	○	7.85	40.0	7.85	100	
CD7900	○	7.90	40.0	7.90	100	
CD7950	○	7.95	40.0	7.95	100	
CD8000	○	8.00	40.0	8.00	100	
CD8050	○	8.05	40.0	8.05	100	
CD8100	○	8.10	40.0	8.10	100	
CD8150	○	8.15	40.0	8.15	100	
CD8200	○	8.20	40.0	8.20	100	
CD8250	○	8.25	40.0	8.25	100	
CD8300	○	8.30	40.0	8.30	100	
CD8350	○	8.35	40.0	8.35	100	
CD8400	○	8.40	40.0	8.40	100	
CD8450	○	8.45	40.0	8.45	100	
CD8500	○	8.50	40.0	8.50	100	
CD8550	○	8.55	40.0	8.55	100	
CD9000	○	9.00	40.0	9.00	100	
CD9050	○	9.05	40.0	9.05	100	
CD9100	○	9.10	40.0	9.10	100	
CD9150	○	9.15	40.0	9.15	100	
CD9200	○	9.20	40.0	9.20	100	
CD9250	○	9.25	40.0	9.25	100	
CD9300	○	9.30	40.0	9.30	100	
CD9350	○	9.35	40.0	9.35	100	
CD9400	○	9.40	40.0	9.40	100	
CD9450	○	9.45	40.0	9.45	100	
CD9500	○	9.50	40.0	9.50	100	
CD9550	○	9.55	40.0	9.55	100	
CD9600	○	9.60	40.0	9.60	100	
CD9650	○	9.65	40.0	9.65	100	
CD9700	○	9.70	40.0	9.70	100	
CD9750	○	9.75	40.0	9.75	100	
CD9800	○	9.80	40.0	9.80	100	
CD9850	○	9.85	40.0	9.85	100	
CD9900	○	9.90	40.0	9.90	100	
CD9950	○	9.95	40.0	9.95	100	
CD10000	○	10.00	50.0	10.00	120	
CD10100	○	10.10	50.0	10.10	120	
CD10200	○	10.20	50.0	10.20	120	
CD10300	○	10.30	50.0	10.30	120	
CD10400	○	10.40	50.0	10.40	120	
CD10500	○	10.50	50.0	10.50	120	
CD10600	○	10.60	50.0	10.60	120	
CD10700	○	10.70	50.0	10.70	120	
CD10800	○	10.80	50.0	10.80	120	
CD10900	○	10.90	50.0	10.90	120	
CD11000	○	11.00	50.0	11.00	120	
CD11100	○	11.10	50.0	11.10	120	
CD11200	○	11.20	50.0	11.20	120	
CD11300	○	11.30	50.0	11.30	120	
CD11400	○	11.40	50.0	11.40	120	
CD11500	○	11.50	50.0	11.50	120	
CD11600	○	11.60	50.0	11.60	120	
CD11700	○	11.70	50.0	11.70	120	
CD11800	○	11.80	50.0	11.80	120	
CD11900	○	11.90	50.0	11.90	120	
CD12000	○	12.00	50.0	12.00	120	

●标准库存 ○订单生产

HD- COATING DRILLS(STRAIGHT SHANK)

HD 涂层直柄合金钻头



- 直径范围 Tool dia: D0.04-D12.0mm
- 直径公差 Dia tolerance: 0,-0.005mm
D1≤1.0mm钻尖角度为118°
D1>1.0mm钻尖角度为135°

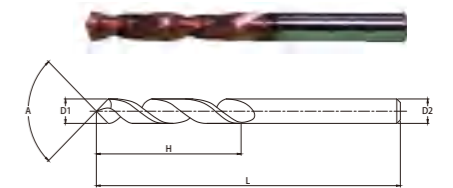
- 采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide

- 新开发复合涂层, 增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit

- 特别适于不锈钢, 高温合金等材料的孔加工

Suitable for hole machining of stainless steel, heat resistant alloy and other materials



加工材料 Work Material																		
碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热线 NAK HPM Pre-Hardened Steel	淬硬钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber	
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○最适合 ○适合
单位(mm)

单位(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
HD0400	○	0.40	5.0	0.40	50	
HD0450	○	0.45	5.0	0.45	50	
HD0500	○	0.50	5.0	0.50	50	
HD0550	○	0.55	5.0	0.55	50	
HD0600	○	0.60	7.0	0.60	50	
HD0650	○	0.65	7.0	0.65	50	
HD0700	○	0.70	10.0	0.70	50	
HD0750	○	0.75	10.0	0.75	50	
HD0800	○	0.80	10.0	0.80	50	
HD0850	○	0.85	10.0	0.85	50	
HD0900	○	0.90	10.0	0.90	50	
HD0950	○	0.95	10.0	0.95	50	
HD1000	○	1.00	12.0	1.00	50	
HD1050	○	1.05	12.0	1.05	50	
HD1100	○	1.10	12.0	1.10	50	
HD1150	○	1.15	12.0	1.15	50	
HD1200	○	1.20	12.0	1.20	50	
HD1250	○	1.25	15.0	1.25	60	
HD1300	○	1.30	15.0	1.30	60	
HD1350	○	1.35	15.0	1.35	60	
HD1400	○	1.40	15.0	1.40	60	
HD1450	○	1.45	15.0	1.45	60	
HD1500	○	1.50	15.0	1.50	60	
HD1550	○	1.55	15.0	1.55	60	
HD1600	○	1.60	15.0	1.60	60	
HD1650	○	1.65	15.0	1.65	60	
HD1700	○	1.70	18.0	1.70	60	
HD1750	○	1.75	18.0	1.75	60	
HD1800	○	1.80	18.0	1.80	60	
HD1850	○	1.85	18.0	1.85	60	
HD1900	○	1.90	18.0	1.90	60	
HD1950	○	1.95	18.0	1.95	60	
HD2000	○	2.00	18.0	2.00	60	
HD2050	○	2.05	20.0	2.05	60	
HD2100	○	2.10	20.0	2.10	60	
HD2150	○	2.15	20.0	2.15	60	
HD2200	○	2.20	20.0	2.20	60	
HD2250	○	2.25	20.0	2.25	60	
HD2300	○	2.30	20.0	2.30	60	
HD2350	○	2.35	20.0	2.35	60	
HD2400	○	2.40	20.0	2.40	60	
HD2450	○	2.45	20.0	2.45	60	

●标准库存 ○订单生产

单位(mm)						
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
HD2500	○	2.50	20.0	2.50	60	
HD2550	○	2.55	20.0	2.55	60	
HD2600	○	2.60	20.0	2.60	60	
HD2650	○	2.65	20.0	2.65	60	
HD2700	○	2.70	20.0	2.70	60	
HD2750	○	2.75	20.0	2.75	60	
HD2800	○	2.80	20.0	2.80	60	
HD2850	○	2.85	20.0	2.85	60	
HD2900	○	2.90	20.0	2.90	60	
HD2950	○	2.95	20.0	2.95	60	
HD3000	○	3.00	25.0	3.00	75	
HD3050	○	3.05	25.0	3.05	75	
HD3100	○	3.10	25.0	3.10	75	
HD3150	○	3.15	25.0	3.15	75	
HD3200	○	3.20	25.0	3.20	75	
HD3250	○	3.25	25.0	3.25		

HD- COATING DRILLS(STRAIGHT SHANK)

HD 涂层直柄合金钻头

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
HD4600	○	4.60	30.0	4.60	100	
HD4650	○	4.65	30.0	4.65	100	
HD4700	○	4.70	30.0	4.70	100	
HD4750	○	4.75	30.0	4.75	100	
HD4800	○	4.80	30.0	4.80	100	
HD4850	○	4.85	30.0	4.85	100	
HD4900	○	4.90	30.0	4.90	100	
HD4950	○	4.95	30.0	4.95	100	
HD5000	○	5.00	40.0	5.00	100	
HD5050	○	5.05	40.0	5.05	100	
HD5100	○	5.10	40.0	5.10	100	
HD5150	○	5.15	40.0	5.15	100	
HD5200	○	5.20	40.0	5.20	100	
HD5250	○	5.25	40.0	5.25	100	
HD5300	○	5.30	40.0	5.30	100	
HD5350	○	5.35	40.0	5.35	100	
HD5400	○	5.40	40.0	5.40	100	
HD5450	○	5.45	40.0	5.45	100	
HD5500	○	5.50	40.0	5.50	100	
HD5550	○	5.55	40.0	5.55	100	
HD6000	○	6.00	40.0	6.00	100	
HD6050	○	6.05	40.0	6.05	100	
HD6100	○	6.10	40.0	6.10	100	
HD6150	○	6.15	40.0	6.15	100	
HD6200	○	6.20	40.0	6.20	100	
HD6250	○	6.25	40.0	6.25	100	
HD6300	○	6.30	40.0	6.30	100	
HD6350	○	6.35	40.0	6.35	100	
HD6400	○	6.40	40.0	6.40	100	
HD6450	○	6.45	40.0	6.45	100	
HD6500	○	6.50	40.0	6.50	100	
HD6550	○	6.55	40.0	6.55	100	
HD6600	○	6.60	40.0	6.60	100	
HD6650	○	6.65	40.0	6.65	100	
HD6700	○	6.70	40.0	6.70	100	
HD6750	○	6.75	40.0	6.75	100	
HD6800	○	6.80	40.0	6.80	100	
HD6850	○	6.85	40.0	6.85	100	
HD6900	○	6.90	40.0	6.90	100	
HD6950	○	6.95	40.0	6.95	100	
HD7000	○	7.00	40.0	7.00	100	
HD7050	○	7.05	40.0	7.05	100	
HD7100	○	7.10	40.0	7.10	100	
HD7150	○	7.15	40.0	7.15	100	
HD7200	○	7.20	40.0	7.20	100	
HD7250	○	7.25	40.0	7.25	100	
HD7300	○	7.30	40.0	7.30	100	
HD7350	○	7.35	40.0	7.35	100	
HD7400	○	7.40	40.0	7.40	100	
HD7450	○	7.45	40.0	7.45	100	
HD7500	○	7.50	40.0	7.50	100	
HD7550	○	7.55	40.0	7.55	100	
HD7600	○	7.60	40.0	7.60	100	
HD7650	○	7.65	40.0	7.65	100	
HD7700	○	7.70	40.0	7.70	100	
HD7750	○	7.75	40.0	7.75	100	
HD7800	○	7.80	40.0	7.80	100	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
HD7850	○	7.85	40.0	7.85	100	
HD7900	○	7.90	40.0	7.90	100	
HD7950	○	7.95	40.0	7.95	100	
HD8000	○	8.00	40.0	8.00	100	
HD8050	○	8.05	40.0	8.05	100	
HD8100	○	8.10	40.0	8.10	100	
HD8150	○	8.15	40.0	8.15	100	
HD8200	○	8.20	40.0	8.20	100	
HD8250	○	8.25	40.0	8.25	100	
HD8300	○	8.30	40.0	8.30	100	
HD8350	○	8.35	40.0	8.35	100	
HD8400	○	8.40	40.0	8.40	100	
HD8450	○	8.45	40.0	8.45	100	
HD8500	○	8.50	40.0	8.50	100	
HD8550	○	8.55	40.0	8.55	100	
HD9000	○	9.00	40.0	9.00	100	
HD9050	○	9.05	40.0	9.05	100	
HD9100	○	9.10	40.0	9.10	100	
HD9150	○	9.15	40.0	9.15	100	
HD9200	○	9.20	40.0	9.20	100	
HD9250	○	9.25	40.0	9.25	100	
HD9300	○	9.30	40.0	9.30	100	
HD9350	○	9.35	40.0	9.35	100	
HD9400	○	9.40	40.0	9.40	100	
HD9450	○	9.45	40.0	9.45	100	
HD9500	○	9.50	40.0	9.50	100	
HD9550	○	9.55	40.0	9.55	100	
HD9600	○	9.60	40.0	9.60	100	
HD9650	○	9.65	40.0	9.65	100	
HD9700	○	9.70	40.0	9.70	100	
HD9750	○	9.75	40.0	9.75	100	
HD9800	○	9.80	40.0	9.80	100	
HD9850	○	9.85	40.0	9.85	100	
HD9900	○	9.90	40.0	9.90	100	
HD9950	○	9.95	40.0	9.95	100	
HD10000	○	10.00	50.0	10.00	120	
HD10100	○	10.10	50.0	10.10	120	
HD10200	○	10.20	50.0	10.20	120	
HD10300	○	10.30	50.0	10.30	120	
HD10400	○	10.40	50.0	10.40	120	
HD10500	○	10.50	50.0	10.50	120	
HD10600	○	10.60	50.0	10.60	120	
HD10700	○	10.70	50.0	10.70	120	
HD10800	○	10.80	50.0	10.80	120	
HD10900	○	10.90	50.0	10.90	120	
HD11000	○	11.00	50.0	11.00	120	
HD11100	○	11.10	50.0	11.10	120	
HD11200	○	11.20	50.0	11.20	120	
HD11300	○	11.30	50.0	11.30	120	
HD11400	○	11.40	50.0	11.40	120	
HD11500	○	11.50	50.0	11.50	120	
HD11600	○	11.60	50.0	11.60	120	
HD11700	○	11.70	50.0	11.70	120	
HD11800	○	11.80	50.0	11.80	120	
HD11900	○	11.90	50.0	11.90	120	
HD12000	○	12.00	50.0	12.00	120	

●标准库存 ○订单生产

CHSD- MULTI-FUNCTION SPOTTING MICRO DRILLS

CHSD 多功能定点钻头



●直径范围 Tool dia: D0.04-D10.0mm

●直径公差 Dia tolerance: 0,-0.005mm

●采用超微细颗粒硬质合金圆棒

Micro Grain Tungsten Carbide

●新开发复合涂层, 增强钻头抗疲劳性及耐磨性

Newly developed composite coating to enhance the fatigue resistance and wear resistance of drill bit

●特别适于不锈钢, 高温合金等材料的孔加工

Suitable for hole machining of stainless steel, heat resistant alloy and other materials

加工材料 Work Material

碳素钢 S45C S55C Carbon Steel	合金钢 SK-SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardness steel ~55 HRC ~60 HRC ~70 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
-------------------------------------	-------------------------------------	---	--	-----------------	-----------------------	------------------------------	---------------------	-----------------------	-------------	------------------	---------------------	----------------	----------------	------------------------	----------------	---------------	---------------------

◎最适合 ○适合

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHSD0010-90	○	0.1	0.5	3	38	
CHSD0015-90	○	0.15	1.0	3	38	
CHSD0020-90	○	0.2	1.0	3	38	
CHSD0030-90	○	0.3	2.0	3	38	
CHSD0040-90	○	0.4	2.0	3	38	
CHSD0050-90	○	0.5	3.0	3	38	
CHSD0060-90	○	0.6	3.0	3	38	
CHSD0070-90	○	0.7	3.0	3	38	
CHSD0080-90	○	0.8	3.0	3	38	
CHSD0090-90	○	0.9	3.0	3	38	
CHSD0100-90	○	1.0	3.0	3	38	
CHSD0150-90	○	1.5	3.0	3	38	
CHSD0200-90	○	2.0	3.0	3	38	
CHSD0250-90	○	2.5	3.0	3	38	
CHSD0300-90	○	3.0	3.0	3	38	
CHSD0350-90	○	3.5	5.0	4	50	
CHSD0400-90	○	4.0	5.0	4	50	
CHSD0450-90	○	4.5	5.0	6	50	
CHSD0500-90	○	5.0	5.0	6	50	
CHSD0550-90	○	5.5	5.0	6	50	
CHSD0600-90	○	6.0	5.0	6	50	
CHSD0650-90	○	6.5	8.0	8	80	
CHSD0700-90	○	7.0	8.0	8	80	
CHSD0750-90	○	7.5	8.0	8	80	
CHSD0800-90	○	8.0	8.0	8	80	
CHSD0850-90	○	8.5	8.0	10	80	
CHSD0900-90	○	9.0	8.0	10	80	
CHSD0950-90	○	9.5	8.0	10	80	
CHSD1000-90	○	10.0	8.0	10	80	

●标准库存 ○订单生产

单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHSD0010-120	○	0.1	0.5	3	38	
CHSD0015-120	○	0.15	1.0	3	38	
CHSD0020-120	○	0.2	1.0	3	38	
CHSD0030-120	○	0.3	2.0	3	38	
CHSD0040-120	○	0.4	2.0	3	38	
CHSD0050-120	○	0.5	3.0	3	38	
CHSD0060-120	○	0.6	3.0	3	38	
CHSD0070-120	○	0.7	3.0	3	38	
CHSD0080-120	○	0.8	3.0	3	38	
CHSD0090-120	○	0.9	3.0	3	38	
CHSD0100-120	○	1.0	3.0	3	38	
CHSD0150-120	○	1.5	3.0	3	38	
CHSD0200-120	○	2.0	3.0	3	38	
CHSD0250-120	○	2.5	3.0	3	38	
CHSD0300-120	○	3.0	3.0	3	38	
CHSD0350-120	○	3.5	5.0	4	50	
CHSD0400-120	○	4.0	5.0	4	50	
CHSD0450-120	○	4.5	5.0	6	50	
CHSD0500-120	○	5.0	5.0	6	50	
CHSD0550-120	○	5.5	5.0	6	50	
CHSD0600-120	○	6.0	5.0	6	50	
CHSD0650-120	○	6.5	8.0	8	80	
CHSD0700-120	○	7.0	8.0	8	80	
CHSD0750-120	○	7.5	8.0	8	80	
CHSD0800-120	○	8.0	8.0	8	80	
CHSD0850-120	○	8.5	8.0	10	80	
CHSD0900-120	○	9.0	8.0	10	80	
CHSD0950-120	○	9.5	8.0	10	80	
CHSD1000-120	○	10.0	8.0	10	80	

●标准库存 ○订单生产

CHSXD- COATING LEFT ROTATION SPOTTING DRILLS

CHSXD 涂层左旋定点钻头



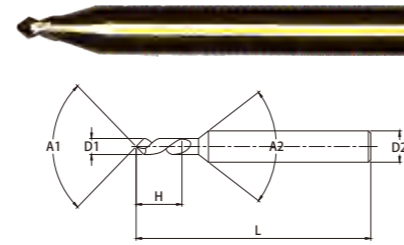
- 直径范围 Tool dia: D0.15-D3.0mm
- 直径公差 Dia tolerance: 0,-0.003mm

•采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide

•特别设计的左旋槽形, 适合于自动车床的孔加工
The specially designed left-hand groove is suitable for hole processing of automatic lathe

•通用性涂层, 适于不锈钢, 钛合金等材料的孔加工

Universal coating, suitable for hole machining of stainless steel, titanium alloy and other materials



加工材料 Work Material																	
碳素钢 S45C	合金钢 SK-SCM	预热钢 NAK	淬硬钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
S55C	SUS	HPM	~55 HRC	~60 HRC	~70 HRC												

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHSXD0500	○	0.5	2.0	3	30	
CHSXD0600	○	0.6	2.0	3	30	
CHSXD0700	○	0.7	2.0	3	30	
CHSXD0800	○	0.8	2.0	3	30	
CHSXD0900	○	0.9	2.0	3	30	
CHSXD1000	○	1.0	2.0	3	30	
CHSXD1250	○	1.25	2.5	3	30	
CHSXD1300	○	1.3	2.5	3	30	
CHSXD1330	○	1.33	2.5	3	30	
CHSXD1350	○	1.35	2.5	3	30	
CHSXD1380	○	1.38	2.5	3	30	
CHSXD1400	○	1.40	2.5	3	30	

●标准库存 ○订单生产

○最适合 ○适合
单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CHSXD1500	○	1.50	2.5	3	30	
CHSXD1550	○	1.55	2.5	3	30	
CHSXD1600	○	1.60	2.5	3	30	
CHSXD1650	○	1.65	2.5	3	30	
CHSXD1700	○	1.70	2.5	3	30	
CHSXD1750	○	1.75	2.5	3	30	
CHSXD1800	○	1.80	2.5	3	30	
CHSXD1850	○	1.85	2.5	3	30	
CHSXD1900	○	1.90	2.5	3	30	
CHSXD2000	○	2.00	2.5	3	30	
CHSXD2500	○	2.50	2.5	3	30	
CHSXD3000	○	3.00	2.5	3	30	

●标准库存 ○订单生产

CND- CARBIDE CENTER DRILLS

CND 合金中心钻头

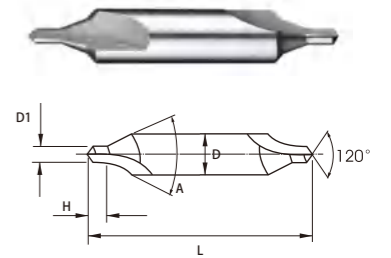


- 直径范围 Tool dia: D1.0-D5.0mm
- 直径公差 Dia tolerance: 0,-0.005mm

•采用超微细颗粒硬质合金圆棒
Micro Grain Tungsten Carbide

•超精公差管控, 优秀的切削力与排屑性

High precision tolerance control, excellent cutting force and chip removal



加工材料 Work Material																	
碳素钢 S45C	合金钢 SK-SCM	预热钢 NAK	淬硬钢 Hardness steel	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Heat Resistant Alloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
S55C	SUS	HPM	~55 HRC	~60 HRC	~70 HRC												

单位(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CND0100-60	○	1.0	1.6	3	32	
CND0125-60	○	1.25	1.9	3	32	
CND0160-60	○	1.6	2.4	4	32	
CND0200-60	○	2.0	2.9	5	40	
CND0250-60	○	2.5	3.6	6	45	
CND0300-60	○	3.0	3.9	8	60	
CND0315-60	○	3.15	3.9	8	60	
CND0400-60	○	4.0	5.0	10	75	
CND0500-60	○	5.0	6.3	12	75	

●标准库存 ○订单生产

○最适合 ○适合
单位(mm)

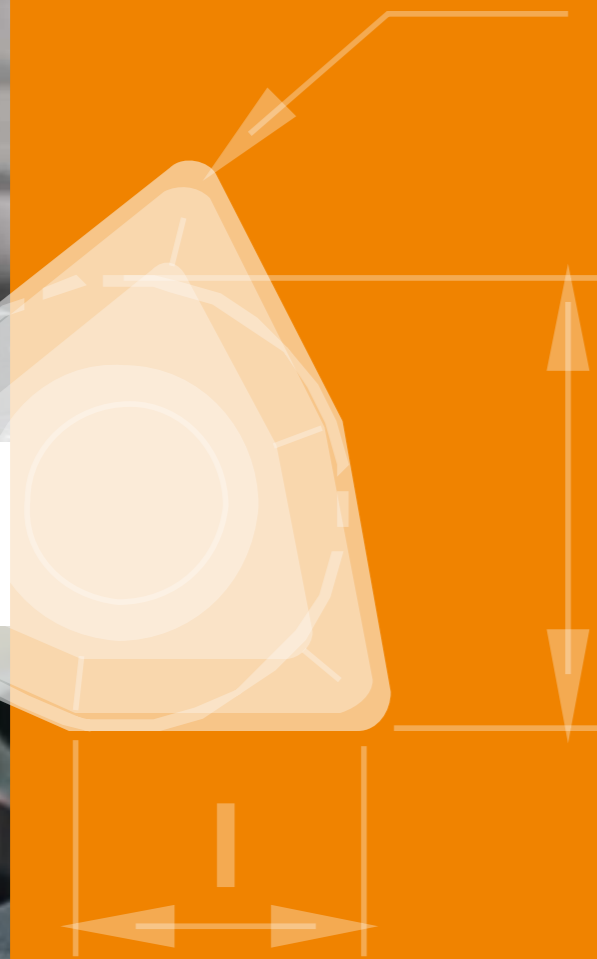
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L	单价 Price RMB
CND0100-90	○	1.0	1.6	3	32	
CND0125-90	○	1.25	1.9	3	32	
CND0160-90	○	1.6	2.4	4	32	
CND0200-90	○	2.0	2.9	5	40	
CND0250-90	○	2.5	3.6	6	45	
CND0300-90	○	3.0	3.9	8	60	
CND0315-90	○	3.15	3.9	8	60	
CND0400-90	○	4.0	5.0	10	75	
CND0500-90	○	5.0	6.3	12	75	

●标准库存 ○订单生产

铰刀

Hinge knife

R



www.pcbn.com

铰刀

Hinge knife

N1~N10



可换头铰刀.....	N01
REAMER WITH REMOVABLE HEAD	
刀杆.....	N02
Tool rod	
模块化刚性连接系统.....	N03
MODULAR RIGID CONNECTION SYSTEM	
手柄.....	N04
The main handle	
直径系列.....	N05
Diameter of the series	
刀头.....	N06
Cutting head	
校验头.....	N07
Check the head	
调节环.....	N08
Adjustable ring	
刀头螺丝.....	N09
Cutting head screw	
拆卸器.....	N10
puller	



可换头铰刀

REAMER WITH REMOVABLE HEAD

基础结构: Infrastructure:

刀杆刀头
Tool rod head

连接结构: Connection structure:

高精度重复定位机构
High precision repeat positioning mechanism

高精度简单重复定位机构，操作简单、更换方便、保证刀具更换精度-致性

替代传统整体结构铰刀，降低成本

替代传统焊接式铰刀涂层难题、提高刀具寿命、降低成本

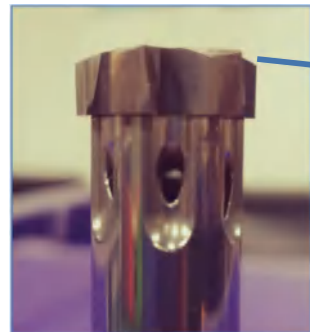
跳动不可调节，刀具精度由机床、现有工具系统保证

High-precision simple repeat positioning mechanism, simple operation, easy to replace, ensure the precision of tool replacement - compliance

Replace the traditional integral structure reamer, reduce the cost

Replace traditional welding reamer coating problem, improve tool life, reduce cost

The runout is not adjustable, the tool precision is guaranteed by the machine tool and the existing tool system



国家发明专利
高精度可重复定位机构
National invention patent
High precision repeatable positioning mechanism

应用范围: Range of application

■ 替代传统整体硬质合金、

焊接铰刀，提高换刀精度、

降低成本、提高刀具寿命。

■ 替代镗刀工艺，提高效率、

适应工业化规模生产。

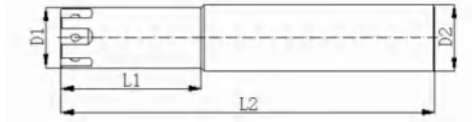
■ Replace the traditional solid carbide,
Welding reamer, improve tool changing accuracy,
Reduce cost and improve tool life.

■ Replace boring cutter process, improve efficiency,
Adapt to industrial scale production.



刀杆

Tool rod



刀头范围/mm Tool head range /mm	L1	L2	D1	D2	订货号 The order no.	库存 inventory
φ15 ≤ φ ≤ φ16	40	100	14	16	QPBD9.0-16-L40-L100	○
	70	120	14	16	QPBD9.0-16-L70-L120	○
	100	150	14	16	QPBD9.0-16-L100-L150	○
φ16 ≤ φ ≤ φ19	54	100	15	20	QPBD10.4(5)-20-L54-L100	○
	80	130	15	20	QPBD10.4(5)-20-L80-L130	○
	120	170	15	20	QPBD10.4(5)-20-L120-L170	○
φ19 ≤ φ ≤ φ23	54	120	18	20	QPBD12-20-L54-L120	○
	95	150	18	20	QPBD12-20-L95-L150	○
	150	200	18	20	QPBD12-20-L150-L200	○
φ23 ≤ φ ≤ φ28	30	120	22	20	QPBD15-20-L120	○
	30	150	22	20	QPBD15-20-L150	○
	30	200	22	20	QPBD15-20-L200	○
φ28 ≤ φ ≤ φ33	30	120	27	25	QPBD17-25-L120	○
	30	150	27	25	QPBD17-25-L150	○
	30	200	27	25	QPBD17-25-L200	○
φ33 ≤ φ ≤ φ38.5	根据方案定制 According to the square stability system					
φ38.5 ≤ φ ≤ φ44.5						
φ44.5 ≤ φ ≤ φ51						

●标准库存 Standard inventory ○订单生产 Order production

模块化刚性连接系统 MODULAR RIGID CONNECTION SYSTEM

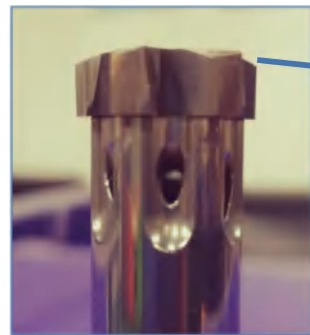
三大基础结构 Three major infrastructures

手柄、连接头、刀头
Main handle, connecting head, tool head

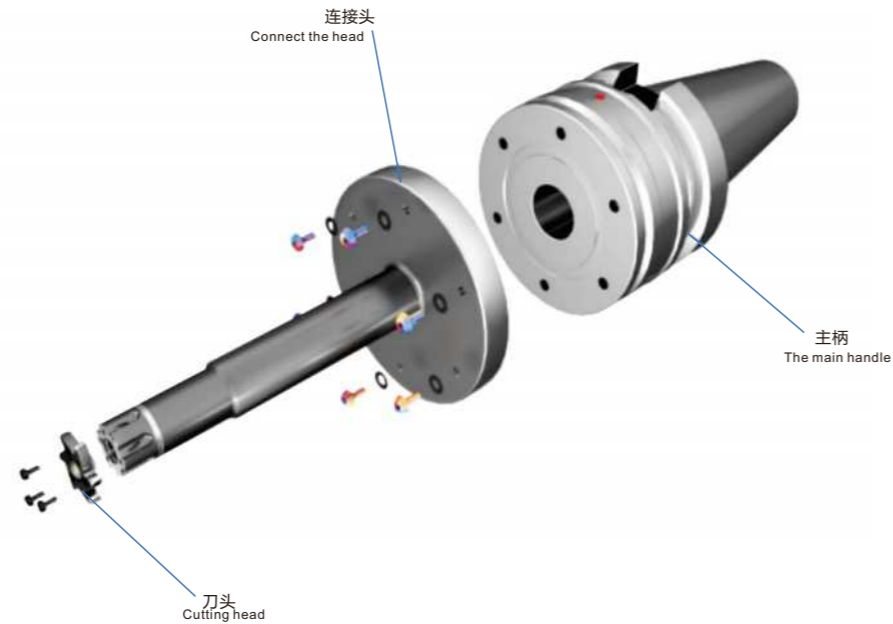
两大连接结构 Two connected structures

可调式刚性连接机构、高精度重复定位机构
Adjustable rigid connection mechanism,
High precision repeat positioning mechanism

- 高精度简单重复定位机构为智能制造、专业制造提供基础
- 操作简单、对客户要"0"基础要求, 5分钟即可掌握调节、更换等使用
- High precision simple repeat positioning mechanism for intelligent manufacturing, professional manufacturing to provide the basis
- Simple operation, the customer to "0" basic requirements, 5 minutes can master adjustment, replacement and other use



国家发明专利
高精度可重复定位机构
National invention patent
High precision repeatable positioning mechanism

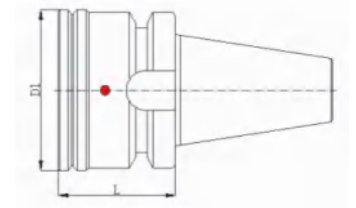


应用范围: Range of application

- 适用直径、圆度、圆柱特殊要求孔类精加工。
- 系统可调节、精度高、稳定、调节简单, 适应大规模、流水线、智能化生产。
- Suitable for diameter, roundness, cylindrical special requirements of hole finishing.
- The system can be adjusted, high precision, stable, easy to adjust, Adapt to large-scale, assembly line, intelligent production.

手柄 The main handle

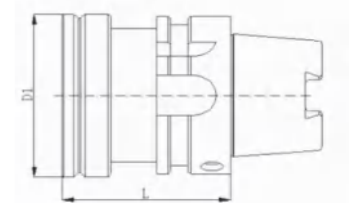
BT系列
BT series



尺寸 size	D1	L	订货编号 The order number	库存 inventory
BT30	50	52	QPA50-BT30	○
BT40	65	57	QPA65-BT40	○
BT50	65	60	QPA65-BT50	○
BT50	80	60	QPA80-BT50	○

●标准库存 Standard inventory ○订单生产 Order production

HSK系列
HSK series

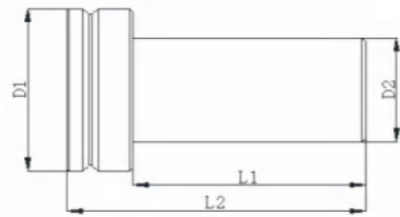


尺寸 size	D1	L	订货编号 The order number	库存 inventory
HSK40A	50	52	QPA50-HSK40A	○
HSK50A	50	59	QPA50-HSK50A	○
HSK63A	65	59	QPA65-HSK65A	○
HSK80A	65	59	QPA65-HSK80A	○
HSK100A	80	62	QPA80-HSK100A	○

●标准库存 Standard inventory ○订单生产 Order production

直径系列

Diameter of the series

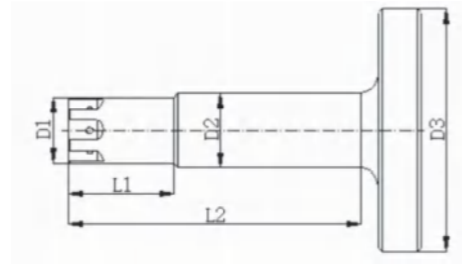


D1	D2	L1	L2	订货编号 The order number	库存 inventory
50	20	60	77	QPA50-20	○
50	25	60	77	QPA50-25	○
50	32	60	77	QPA50-32	○

●标准库存 Standard inventory ○订单生产 Order production

一体式连接头

Integral connection head

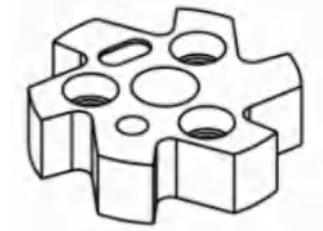


刀头范围/mm Tool head range /mm	D1	D2	D3	L1	L2	订货号 The order no.	库存 inventory
φ15 ≤ φ ≤ φ16	14	20	65	40	82	QPB9.0-65-L40-L100-15	○
φ16 ≤ φ ≤ φ19	15	20	65	48	82	QPB10.4-65-L48-L100-15	○
φ19 ≤ φ ≤ φ23	18	25	65	54	82	QPB12-65-L54-L100-18	○
φ23 ≤ φ ≤ φ28	22	22	65	-	82	QPB15-65-L82-L100-22	○
φ28 ≤ φ ≤ φ33	27	27	65	-	92	QPB17-65-L92-L110-27	○
φ33 ≤ φ ≤ φ38.5	32	32	65	-	95	QPB22-65-L95-L110-32	○
φ38.5 ≤ φ ≤ φ44.5	37	37	65	-	115	QPB24-65-L115-L130-37	○
φ44.5 ≤ φ ≤ φ51	43	40	65	30	115	QPB27-65-L115-L130-43	○
φ51 ≤ φ ≤ φ58	48	55	80	30	115	QPB34-80-L115-L130-48	○
φ58 ≤ φ ≤ φ68	55	55	80	30	115	QPB42-80-L115-L130-55	○
φ68 ≤ φ ≤ φ78	65	55	80	30	115	QPB52-80-L115-L130-65	○
φ78 ≤ φ ≤ φ89	76	55	80	30	115	QPB62-80-L115-L130-75	○
上述其余规格尺寸根据方案定制 The other specifications are customized according to the scheme							
φ89 ≤ φ ≤ φ100	根据方案定制 According to the square stability system						
φ100 ≤ φ ≤ φ140	根据方案定制 According to the square stability system						

●标准库存 Standard inventory ○订单生产 Order production

刀头

Cutting head



项名 The name	刀头直径/mm Head diameter	库存 Stock	厚度/mm The thickness	刃数 The blade number	起订量/片 Minimum order quantity/tablet	订单号 The order number	材质 The material	
	φ12 ≤ φ ≤ φ15	○	6.5	6	10	15T1-φ	金属陶瓷 Metal ceramic	
	φ15 < φ ≤ φ16	○	6.6	6	10	16T1-φ		
	φ16 < φ ≤ φ19	○	6.78	6	10	19T1-φ		
	φ19 < φ ≤ φ23	○	8.33	6	10	23T1-φ		
	φ23 < φ ≤ φ28	○	8.33	6	10	28T1-φ		
	φ28 < φ ≤ φ33	○	8.33	8	5	33T1-φ		
	φ33 < φ ≤ φ38.5	○	10	8	5	38.5T1-φ		
	φ38.5 < φ ≤ φ44.5	○	10	8	2	44.5T1-φ		
	φ44.5 < φ ≤ φ51	○	10.3	8	2	51T1-φ		
	φ51 < φ ≤ φ58	○	11.3	8	2	58T1-φ		
	φ58 < φ ≤ φ68	○	13.0	8	2	68T1-φ		
	φ68 < φ ≤ φ78	○	13.0	8	2	78T1-φ		
	φ78 < φ ≤ φ89	○	15.5	8	2	89T1-φ		
	φ89 < φ ≤ φ100	○	15.5	10	2	100T1-φ		
	φ100 < φ ≤ φ140	根据方案定制 According to the square stability system						
	φ12 ≤ φ ≤ φ15	○	6.5	6	10	15H3-φ		硬质合金 carbide
	φ15 < φ ≤ φ16	○	6.6	6	10	16H3-φ		
	φ16 < φ ≤ φ19	○	6.78	6	10	19H3-φ		
	φ19 < φ ≤ φ23	○	8.33	6	10	23H3-φ		
	φ23 < φ ≤ φ28	○	8.33	6	10	28H3-φ		
	φ28 < φ ≤ φ33	○	8.33	8	5	33H3-φ		
	φ33 < φ ≤ φ38.5	○	10	8	5	38.5H3-φ		
	φ38.5 < φ ≤ φ44.5	○	10	8	2	44.5H3-φ		
	φ44.5 < φ ≤ φ51	○	10.3	8	2	51H3-φ		
	φ51 < φ ≤ φ58	○	11.3	8	2	58H3-φ		
	φ58 < φ ≤ φ68	○	13.0	8	2	68H3-φ		
	φ68 < φ ≤ φ78	○	13.0	8	2	78H3-φ		
	φ78 > φ > φ89	○	15.5	8	2	89H3-φ		
	φ89 > φ > φ100	○	15.5	10	2	100H3-φ		
	φ100 > φ > φ140	根据方案定制 According to the square stability system						

●标准库存 Standard inventory ○订单生产 Order production

校验头

Check the head

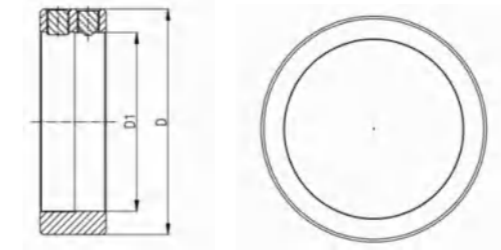


配合刀头直径/mm Fit knife head diameter	订货号 The order no.	库存 inventory
φ15≤φ≤φ16	QPDB16	○
φ16 < φ ≤ φ19	QPDB19	○
φ19 < φ ≤ φ23	QPDB23	○
φ23 < φ ≤ φ28	QPDB28	○
φ28 < φ ≤ φ33	QPDB33	○
φ33 < φ ≤ φ38.5	QPDB38.5	○
φ38.5 < φ ≤ φ44.5	QPDB44.5	○
φ44.5 < φ ≤ φ51	QPDB51	○
φ51 < φ ≤ φ58	QPDB58	○
φ58 < φ ≤ φ68	QPDB68	○
φ68 < φ ≤ φ78	QPDB78	○
φ78 < φ ≤ φ89	QPDB89	○
φ89 < φ ≤ φ100	QPDB100	○

●标准库存 Standard inventory ○订单生产 Order production

调节环

Adjustable ring



调节环 Adjustable ring	D	D1	匹配手柄编码 Matches the primary handle code	配套扳手 Supporting the wrench	库存 inventory
QPE50	65	50	QPA50-20 QPA50-32Q QPA50-HSK40	QPA50-25 PA50-BT30 QPA50-HSK50	○
QPE65	82	65	QPA65-BT40 QPA65-HSK63	QPA65-BT50 QPA65-HSK80	○
QPE80	100	80	QPA80-BT50 QPA80-HSK100	L型 (type) 4x140	○

●标准库存 Standard inventory ○订单生产 Order production

刀头扳手

Cutting head wrench



扳手型号 Spanner type	批头型号 Batch of head type	对应的螺丝 Corresponding screw	对应扭力值 Corresponds to the torque value	库存 inventory
1/4 0.4-2.6N.m	T6	M2.0x8	0.65-0.7N.m	○
	T8	M2.5x8	1.25-1.3N.m	○
	T10	M3.0x10	2.1-2.2N.m	○

●标准库存 Standard inventory ○订单生产 Order production

刀头螺丝 Cutting head screw



配合刀头直径/mm Fit knife head diameter	订货号 The order no.	订货号 The order no.	库存 inventory
φ15≤φ≤φ16	M2.5x8	T8	○
φ16 < φ ≤ φ19	M2.0x8	T6	○
φ19 < φ ≤ φ23			○
φ23 < φ ≤ φ28	M2.5x8	T8	○
φ28 < φ ≤ φ33			○
φ33 < φ ≤ φ38.5			○
φ38.5 < φ ≤ φ44.5	M3.0x10	T10	○
φ44.5 < φ ≤ φ51			○
φ51 < φ ≤ φ58			○
φ58 < φ ≤ φ68			○
φ68 < φ ≤ φ78	M4x10	4x70	○
φ78 < φ ≤ φ89			○
φ89 < φ ≤ φ100			○

●标准库存 Standard inventory ○订单生产 Order production

拆卸器 puller



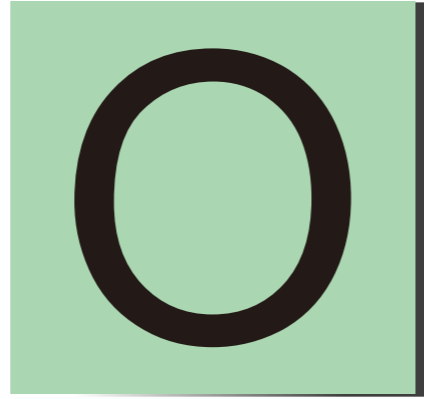
配合刀头直径/mm Fit knife head diameter	订货号 The order no.	订货号 The order no.	库存 inventory
φ15≤φ≤φ16			○
φ16 < φ ≤ φ19	φ4x4φ30x95		○
φ19 < φ ≤ φ23			○
φ23 < φ ≤ φ28			○
φ28 < φ ≤ φ33			○
φ33 < φ ≤ φ38.5			○
φ38.5 < φ ≤ φ44.5			○
φ44.5 < φ ≤ φ51	φ5x4xφ30x95	φ50x15xφ9.5	○
φ51 < φ ≤ φ58			○
φ58 < φ ≤ φ68			○
φ68 < φ ≤ φ78			○
φ78 < φ ≤ φ89			○
φ89 < φ ≤ φ100			○

●标准库存 Standard inventory ○订单生产 Order production

丝攻

tap

01~044



JIS公制粗牙螺旋槽系列 JIS METRIC COARSE SPIRAL TAPS	003	JIS公制粗牙手动丝攻系列 JIS METRIC COARSE HAND TAPS	025
JIS公制细牙螺旋槽系列 JIS METRIC FINE SPIRAL TAPS	004	JIS公制细牙手动丝攻系列 JIS METRIC FINE HAND TAPS	026
JIS公制细牙螺旋槽系列 JIS METRIC FINE SPIRAL	005	JIS 美制粗牙手动丝攻系列 JIS UNC COARSE HAND TAPS	027
JIS美制粗牙螺旋槽系列 JIS UNC COARSE SPIRAL TAPS	006	JIS 美制细牙手动丝攻系列 JIS UNF FINE HAND TAPS	028
JIS美制细牙螺旋槽系列 JIS UNF FINE SPIRAL TAPS	007	ISO 2284直管螺纹直槽系列 ISO 2284 PARALLEL PIPE TAPS	029
JIS英制粗牙螺旋槽系列 JIS INCH COARSE SPIRAL TAPS	008	ISO 2284锥管螺纹直槽系列 ISO 2284 TAPER PIPE TAPS	030
JIS公制粗牙先端系列 JIS METRIC COARSE GUN TAPS	009	JIS 英制粗牙手动丝攻系列 JIS INCH COARSE HAND TAPS	031
JIS公制细牙先端系列 JIS METRIC FINE GUN TAPS	010	JIS 英制细牙手动丝攻系列 JIS INCH FINE HAND TAPS	032
JIS公制细牙先端系列 JIS METRIC FINE GUN TAPS	011	JIS 英制锥管螺旋槽系列 JIS INCH TAPER SPIRAL TAPS	033
JIS美制粗牙先端系列 JIS UNC COARSE GUN TAPS	012	JIS 管螺纹螺旋槽系列 JIS SPIRAL FLUTED TAPS	034
JIS美制细牙先端系列 JIS UNF FINE GUN TAPS	013	JIS公制加长螺旋槽系列 JIS METRIC LONG SPIRAL TAPS	035
JIS英制粗牙先端系列 JIS INCH COARSE GUN TAPS	014	JIS公制加长先端系列 JIS METRIC LONG GUN TAPS	036
JIS公制左旋右切系列 JIS METRIC LEFT HANDED GUN TAPS	015	DIN 371/376公制螺旋槽系列 DIN 371/376 SPIRAL TAPS	037
JIS铸铁专用螺旋槽系列 JIS SPIRAL TAP FOR CAST IRON	016	DIN 371/376公制先端系列 DIN 371/376 GUN TAPS	038
JIS不锈钢专用螺旋槽系列 JIS SPIRAL TAPS FOR STAINLESS STEEL	017	JIS日标合金直槽丝攻系列 JIS CARBIDE STRAIGHT FLUTED TAPS	039
JIS铜铝合金专用螺旋槽系列 JIS SPIRAL TAPS FOR COPPER ALUMINUM	018	JIS日标合金螺旋丝攻系列 JIS CARBIDE SPIRAL FLUTED TAPS	040
JIS不锈钢专用先端丝攻 JIS SPIRAL TAPS FOR GUN TAP	019	JIS日标合金先端丝攻系列 JIS CARBIDE GUN TAPS	041
	020	JIS日标合金挤压丝攻系列 JIS CARBIDE FORMING TAPS	042
JIS公制挤压丝攻系列 JIS FORMING TAPS	021	JIS管螺纹合金丝攻系列 JIS PIPE THREAD CARBIDE TAPS	043
JIS美制挤压丝攻系列 JIS UNC FORMING TAPS	022	JIS管螺纹合金短刃螺旋槽丝攻系列 JIS PIPE THREAD CARBIDE SHORT SPIRAL TAPS	044
JIS公制粉末高速钢螺旋槽系列 JIS METRIC SPIRAL TAPS FOR POWDER METALLURGY	023		
JIS公制粉末高速钢先端系列 JIS METRIC GUN TAPS FOR POWDER METALLURGY	024		

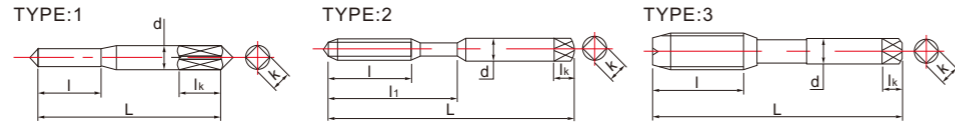
KOVES丝攻标识方式： KOVES tapping identification method:



JIS METRIC COARSE SPIRAL TAPS JIS公制粗牙螺旋槽系列



- 抗拉强度600-900N/MM²的高碳钢镀铬合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM²以下中低碳钢、铜、镁铝合金等。
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM² Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Magnesium aluminum alloy, etc.



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

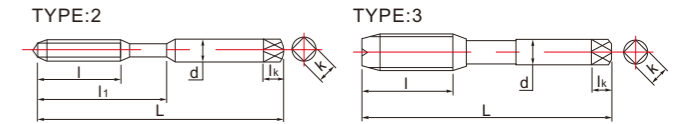
型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	lk				
TNH-M1.0x0.25-SFT-PE-J		M1	0.25	32	5.5		3.0	2.5	5	1	2		
TNH-M1.1x0.25-SFT-PE-J		M1.1	0.25	32	5.5		3.0	2.5	5	1	2		
TNH-M1.2x0.25-SFT-PE-J		M1.2	0.25	32	5.5		3.0	2.5	5	1	2		
TNH-M1.4x0.30-SFT-PE-J		M1.4	0.30	36	8.0		3.0	2.5	5	1	2		
TNH-M1.6x0.35-SFT-PE-J		M1.6	0.35	36	8.0		3.0	2.5	5	1	2		
TNH-M1.7x0.35-SFT-PE-J		M1.7	0.35	36	8.0		3.0	2.5	5	1	2		
TNH-M1.8x0.35-SFT-PE-J		M1.8	0.35	36	8.0		3.0	2.5	5	1	2		
TNH-M2.0x0.40-SFT-PE-J		M2	0.40	42	9.5	15	3.0	2.5	5	2	2		
TNH-M2.2x0.45-SFT-PE-J		M2.2	0.45	42	9.5	15	3.0	2.5	5	2	2		
TNH-M2.3x0.40-SFT-PE-J		M2.3	0.40	42	9.5	15	3.0	2.5	5	2	2		
TNH-M2.5x0.45-SFT-PE-J		M2.5	0.45	44	9.5	16	3.0	2.5	5	2	2		
TNH-M2.6x0.45-SFT-PE-J		M2.6	0.45	44	9.5	16	3.0	2.5	5	2	2		
TNH-M3.0x0.50-SFT-PE-J		M3	0.50	46	11	18	4.0	3.2	6	2	3		
TNH-M3.5x0.60-SFT-PE-J		M3.5	0.60	48	13	20	4.0	3.2	6	2	3		
TNH-M4.0x0.70-SFT-PE-J		M4	0.70	52	13	20	5.0	4.0	7	2	3		
TNH-M4.5x0.75-SFT-PE-J		M4.5	0.75	55	13	21	5.0	4.0	7	2	3		
TNH-M5.0x0.80-SFT-PE-J		M5	0.80	60	16	25	5.5	4.5	7	2	3		
TNH-M5.5x0.90-SFT-PE-J		M5.5	0.90	60	16	25	5.5	4.5	7	2	3		
TNH-M6.0x1.00-SFT-PE-J		M6	1.00	62	19	28	6.0	4.5	7	2	3		
TNH-M7.0x1.00-SFT-PE-J		M7	1.00	65	19	30	6.2	5.0	8	3	3		
TNH-M8.0x1.25-SFT-PE-J		M8	1.25	70	22		6.2	5.0	8	3	3		
TNH-M9.0x1.25-SFT-PE-J		M9	1.25	72	22		7.0	5.5	8	3	3		
TNH-M10x1.5-SFT-PE-J		M10	1.50	75	24		7.0	5.5	8	3	3		
TNH-M11x1.5-SFT-PE-J		M11	1.50	80	25		8.0	6.0	9	3	3		
TNH-M12x1.75-SFT-PE-J		M12	1.75	82	29		8.5	6.5	9	3	3		
TNH-M14x2.0-SFT-PE-J		M14	2.00	88	30		10.5	8.0	11	3	3		
TNH-M15x2.0-SFT-PE-J		M15	2.00	90	30		10.5	8.0	11	3	3		
TNH-M16x2.0-SFT-PE-J		M16	2.00	95	32		12.5	10	13	3	3		
TNH-M18x2.5-SFT-PE-J		M18	2.50	100	37		14.0	11	14	3	4		
TNH-M20x2.5-SFT-PE-J		M20	2.50	105	37		15.0	12	15	3	4		
TNH-M22x2.5-SFT-PE-J		M22	2.50	115	38		17.0	13	16	3	4		
TNH-M24x3.0-SFT-PE-J		M24	3.00	120	45		19.0	15	18	3	4		
TNH-M26x3.0-SFT-PE-J		M26	3.00	125	45		20.0	15	18	3	4		
TNH-M27x3.0-SFT-PE-J		M27	3.00	130	45		20.0	15	18	3	4		
TNH-M30x3.5-SFT-PE-J		M30	3.50	135	48		23.0	17	20	3	4		
TNH-M33x3.5-SFT-PE-J		M33	3.50	145	51		25.0	19	22	3	4		
TNH-M36x4.0-SFT-PE-J		M36	4.00	155	57		28.0	21	24	3	4		
TNH-M39x4.0-SFT-PE-J		M39	4.00	165	60		30.0	23	26	3	4		
TNH-M42x4.5-SFT-PE-J		M42	4.50	175	60		32.0	26	30	3	4		
TNH-M45x4.5-SFT-PE-J		M45	4.50	180	67		35.0	26	30	3	4		
TNH-M48x5.0-SFT-PE-J		M48	5.00	185	67		38.0	29	32	3	4		

● 标准库存 Standard inventory ○ 订单生产 Order production

JIS METRIC FINE SPIRAL TAPS JIS公制细牙螺旋槽系列



- 抗拉强度600-900N/MM²的高碳钢镀铬合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM²以下中低碳钢、铜、镁铝合金等。
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM² Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Magnesium aluminum alloy, etc.



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

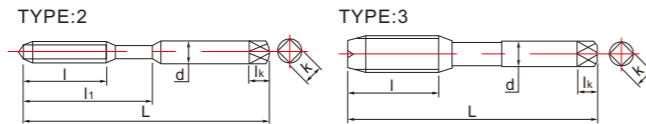
型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	lk				
TNH-M2x0.25-SFT-BE-J		M2	0.25	42	7.0	15	3.0	2.5	5	2	2		
TNH-M2.3x0.25-SFT-BE-J		M2.3	0.25	42	7.0	15	3.0	2.5	5	2	2		
TNH-M2.5x0.35-SFT-BE-J		M2.5	0.35	44	8.0	16	3.0	2.5	5	2	2		
TNH-M2.6x0.35-SFT-BE-J		M2.6	0.35	44	8.0	16	3.0	2.5	5	2	2		
TNH-M3x0.6-SFT-BE-J		M3	0.60	46	11	18	4.0	3.2	6	2	3		
TNH-M3x0.35-SFT-BE-J		M3	0.35	46	9.5	18	4.0	3.2	6	2	3		
TNH-M3.5x0.35-SFT-BE-J		M3.5	0.35	48	9.5	20	4.0	3.2	6	2	3		
TNH-M4x0.75-SFT-BE-J		M4	0.75	52	13	21	5.0	4.0	7	2	3		
TNH-M4x0.5-SFT-BE-J		M4	0.50	52	13	21	5.0	4.0	7	2	3		
TNH-M4.5x0.5-SFT-BE-J		M4.5	0.50	55	13	21	5.0	4.0	7	2	3		
TNH-M5x0.5-SFT-BE-J		M5	0.50	55	13	25	5.5	4.5	7	2	3		
TNH-M5x0.75-SFT-BE-J		M5	0.75	60	16	25	5.5	4.5	7	2	3		
TNH-M6x0.75-SFT-BE-J		M6	0.75	62	19	30	6.0	4.5	7	2	3		
TNH-M6x0.5-SFT-BE-J		M6	0.50	55	13	25	6.0	4.5	7	2	3		
TNH-M7x0.75-SFT-BE-J		M7	0.75	65	19	30	6.2	5.0	8	3	3		
TNH-M7x0.5-SFT-BE-J		M7	0.50	55	13	25	6.2	5.0	8	3	3		
TNH-M8x1.0-SFT-BE-J		M8	1.00	70	22		6.2	5.0	8	3	3		
TNH-M8x0.75-SFT-BE-J		M8	0.75	70	22		6.2	5.0	8	3	3		
TNH-M9x1.0-SFT-BE-J		M9	1.00	72	22		7.0	5.5	8	3	3		
TNH-M9x0.75-SFT-BE-J		M9	0.75	72	22		7.0	5.5	8	3	3		
TNH-M9x0.5-SFT-BE-J		M9	0.50	72	22		7.0	5.5	8	3	3		
TNH-M10x1.25-SFT-BE-J		M10	1.25	75	24		7.0	5.5	8	3	3		
TNH-M10x1.0-SFT-BE-J		M10	1.00	75	24		7.0	5.5	8	3	3		
TNH-M10x0.75-SFT-BE-J		M10	0.75	75	22		7.0	5.5	8	3	3		
TNH-M10x0.5-SFT-BE-J		M10	0.50	75	22		7.0	5.5	8	3	3		
TNH-M11x1.25-SFT-BE-J		M11	1.25	80	25		8.0	6.0	9	3	3		
TNH-M11x1.0-SFT-BE-J		M11	1.00	80	25		8.0	6.0	9	3	3		
TNH-M11x0.75-SFT-BE-J		M11	0.75	75	22		8.0	6.0	9	3	3		
TNH-M12x1.5-SFT-BE-J		M12	1.50	82	29		8.5	6.5	9	3	3		
TNH-M12x1.25-SFT-BE-J		M12	1.25	82	29		8.5	6.5	9	3	3		
TNH-M12x0.75-SFT-BE-J		M12	0.75	75	22		8.5	6.5	9	3	3		
TNH-M12x0.5-SFT-BE-J		M12	0.50	75	22		8.5	6.5	9	3	3		
TNH-M13x1.75-SFT-BE-J		M13	1.75	85	29		9.5	7.0	10	3	3		
TNH-M13x1.5-SFT-BE-J		M13	1.50	85	29		9.5	7.0	10	3	3		
TNH-M14x1.5-SFT-BE-J		M14	1.50	88	30		10.5	8.0	11	3	3		
TNH-M14x1.25-SFT-BE-J		M14	1.25	88	30		10.5	8.0	11	3	3		
TNH-M14x1.0-SFT-BE-J		M14	1.00	88	30		10.5	8.0	11	3	3		
TNH-M15x1.5-SFT-BE-J		M15	1.50	90	30		10.5	8.0	11	3	3		
TNH-M15x1.0-SFT-BE-J		M15	1.00	90	30		10.5	8.0	11	3	3		
TNH-M16x1.5-SFT-BE-J		M16	1.50	95	32		12.5	10	13	3	3		
TNH-M16x1.0-SFT-BE-J		M16	1.00	95	32		12.5	10	13	3	3		
TNH-M17x1.5-SFT-BE-J		M17	1.50	95	32		13.0	10	13	3	4		
TNH-M17x1.0-SFT-BE-J		M17	1.00	95	32		13.0	10	13	3	4		
TNH-M18x2.0-SFT-BE-J		M18	2.00	100	37		14.0	11	14	3	4		
TNH-M18x1.5-SFT-BE-J		M18	1.50	100	37		14.0	11	14	3	4		
TNH-M18x1.25-SFT-BE-J		M18	1.25	95	30		14.0	11	14	3	4		
TNH-M18x1.0-SFT-BE-J		M18	1.00	95	30		14.0	11	14	3	4		
TNH-M19x1.5-SFT-BE-J		M19	1.50	105	37		14.0	11	14	3	4		
TNH-M19x1.0-SFT-BE-J		M19	1.00	95	30		14.0	11	14	3	4		
TNH-M20x2.0-SFT-BE-J		M20	2.00	105	37		15.0	12	15	3	4		
TNH-M20x1.5-SFT-BE-J		M20	1.50	105	37		15.0	12	15	3	4		
TNH-M22x2.0-SFT-BE-J		M22	2.00	115	38		17.0	13	16	3	4		
TNH-M22x1.5-SFT-BE-J		M22	1.50	115	38		17.0	13	16	3	4		
TNH-M22x1.0-SFT-BE-J		M22	1.00	95	30		17.0	13	16	3	4		

JIS METRIC FINE SPIRAL JIS公制细牙螺旋槽系列



- 抗拉强度600-900N/MM²的高碳钢镍铬合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM²以下中低碳钢、铜、镁铝合金等。
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM² Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Magnesium aluminum alloy, etc.

通/盲孔
加工皆适
Tong/blind holes
Processing is optimal



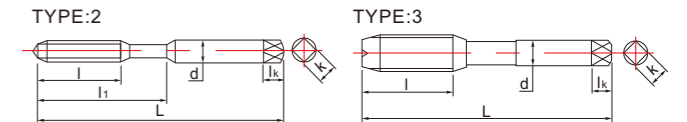
型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l ₂				
TNH-M23x1.5-SFT-BE-J		M23	1.50	115	38		18.0	14	17	3	4		
TNH-M24x2.0-SFT-BE-J		M24	2.00	120	45		19.0	15	18	3	4		
TNH-M24x1.5-SFT-BE-J		M24	1.50	120	45		19.0	15	18	3	4		
TNH-M25x2.0-SFT-BE-J		M25	2.00	125	45		19.0	15	18	3	4		
TNH-M25x1.5-SFT-BE-J		M25	1.50	125	45		19.0	15	18	3	4		
TNH-M26x2.0-SFT-BE-J		M26	2.00	125	45		20.0	15	18	3	4		
TNH-M26x1.5-SFT-BE-J		M26	1.50	125	45		20.0	15	18	3	4		
TNH-M27x2.0-SFT-BE-J		M27	2.00	130	45		20.0	15	18	3	4		
TNH-M27x1.5-SFT-BE-J		M27	1.50	130	45		20.0	15	18	3	4		
TNH-M28x2.0-SFT-BE-J		M28	2.00	130	45		21.0	17	20	3	4		
TNH-M28x1.5-SFT-BE-J		M28	1.50	130	45		21.0	17	20	3	4		
TNH-M30x3.0-SFT-BE-J		M30	3.00	135	48		23.0	17	20	3	4		
TNH-M30x2.0-SFT-BE-J		M30	2.00	135	45		23.0	17	20	3	4		
TNH-M32x3.0-SFT-BE-J		M32	3.00	145	51		24.0	19	22	3	4		
TNH-M32x2.0-SFT-BE-J		M32	2.00	135	45		24.0	19	22	3	4		
TNH-M33x1.5-SFT-BE-J		M33	1.50	135	45		25.0	19	22	3	4		
TNH-M33x1.0-SFT-BE-J		M33	1.00	110	30		25.0	19	22	3	4		
TNH-M33x3.0-SFT-BE-J		M33	3.00	145	51		25.0	19	22	3	4		
TNH-M33x2.0-SFT-BE-J		M33	2.00	135	45		25.0	19	22	3	4		
TNH-M34x3.0-SFT-BE-J		M34	3.00	145	51		26.0	21	24	3	4		
TNH-M34x2.0-SFT-BE-J		M34	2.00	135	45		26.0	21	24	3	4		
TNH-M34x1.5-SFT-BE-J		M34	1.50	135	45		26.0	21	24	3	4		
TNH-M34x1.0-SFT-BE-J		M34	1.00	110	30		26.0	21	24	3	4		
TNH-M35x3.0-SFT-BE-J		M35	3.00	155	57		26.0	21	24	3	4		
TNH-M35x2.0-SFT-BE-J		M35	2.00	135	45		26.0	21	24	3	4		
TNH-M35x1.5-SFT-BE-J		M35	1.50	135	45		26.0	21	24	3	4		
TNH-M36x3.0-SFT-BE-J		M36	3.00	155	57		28.0	21	24	3	4		
TNH-M36x2.0-SFT-BE-J		M36	2.00	135	45		28.0	21	24	3	4		
TNH-M36x1.5-SFT-BE-J		M36	1.50	135	45		28.0	21	24	3	4		
TNH-M39x3.0-SFT-BE-J		M39	3.00	165	60		30.0	23	26	3	4		
TNH-M39x2.0-SFT-BE-J		M39	2.00	135	45		30.0	23	26	3	4		
TNH-M39x1.5-SFT-BE-J		M39	1.50	135	45		30.0	23	26	3	4		
TNH-M40x3.0-SFT-BE-J		M40	3.00	165	60		30.0	23	26	3	4		
TNH-M40x2.0-SFT-BE-J		M40	2.00	135	45		30.0	23	26	3	4		
TNH-M40x1.5-SFT-BE-J		M40	1.50	135	45		30.0	23	26	3	4		
TNH-M42x3.0-SFT-BE-J		M42	3.00	175	60		32.0	26	30	3	4		
TNH-M42x2.0-SFT-BE-J		M42	2.00	135	45		32.0	26	30	3	4		
TNH-M42x1.5-SFT-BE-J		M42	1.50	135	45		32.0	26	30	3	4		
TNH-M45x3.0-SFT-BE-J		M45	3.00	180	67		35.0	26	30	3	4		
TNH-M45x2.0-SFT-BE-J		M45	2.00	140	45		35.0	26	30	3	4		
TNH-M45x1.5-SFT-BE-J		M45	1.50	140	45		35.0	26	30	3	4		
TNH-M48x4.0-SFT-BE-J		M48	4.00	185	67		38.0	29	32	3	4		
TNH-M48x3.0-SFT-BE-J		M48	3.00	185	67		38.0	29	32	3	4		
TNH-M48x2.0-SFT-BE-J		M48	2.00	140	45		38.0	29	32	3	4		
TNH-M48x1.5-SFT-BE-J		M48	1.50	140	45		38.0	29	32	3	4		

JIS UNC COARSE SPIRAL TAPS JIS美制粗牙螺旋槽系列



- 抗拉强度600-900N/MM²的高碳钢镍铬合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM²以下中低碳钢、铜、镁铝合金等。
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM² Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Magnesium aluminum alloy, etc.

通/盲孔
加工皆适
Tong/blind holes
Processing is optimal



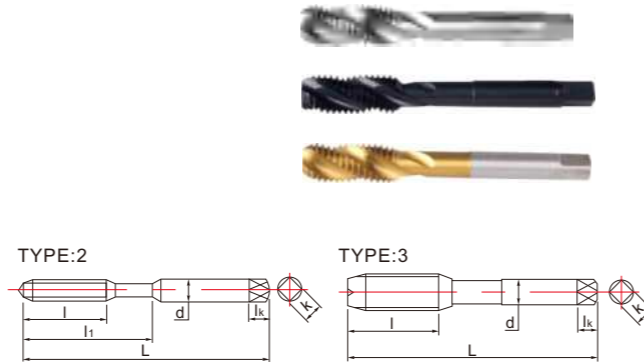
型号 Model	单价 Price	美制牙(UNC)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Nominal Dia.	L	l	l ₁	d	k	l ₂				
TNH-No.2-56UNC-SFT-PE-J		No.2-56UNC	2.184	42	9.5	15	3.0	2.5	5	2	2		
TNH-No.3-48UNC-SFT-PE-J		No.3-48UNC	2.515	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.4-40UNC-SFT-PE-J		No.4-40UNC	2.845	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.5-40UNC-SFT-PE-J		No.5-40UNC	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-No.6-32UNC-SFT-PE-J		No.6-32UNC	3.505	48	13	20	4.0	3.2	6	2	3		
TNH-No.8-32UNC-SFT-PE-J		No.8-32UNC	4.166	52	13	21	5.0	4.0	7	2	3		
TNH-No.10-24UNC-SFT-PE-J		No.10-24UNC	4.826	60	16	25	5.5	4.5	7	2	3		
TNH-No.12-24UNC-SFT-PE-J		No.12-24UNC	5.486	60	16	25	5.5	4.5	7	2	3		
TNH-1/4-20UNC-SFT-PE-J		1/4-20UNC	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16-18UNC-SFT-PE-J		5/16-18UNC	7.938	70	22		6.1	5.0	8	3	3		
TNH-3/8-16LJNC-SFT-PE-J		3/8-16LJNC	9.525	75	24		7.0	5.5	8	3	3		
TNH-7/16-14UNC-SFT-PE-J		7/16-14UNC	11.112	80	25		8.0	6.0	9	3	3		
TNH-1/2-13UNC-SFT-PE-J		1/2-13UNC	12.700	85	29		9.0	7.0	10	3	3		
TNH-9/16-12UNC-SFT-PE-J		9/16-12UNC	14.288	90	30		10.5	8.0	11	3	3		
TNH-5/8-11UNC-SFT-PE-J		5/8-11UNC	15.875	95	32		12.0	9.0	12	3	3		
TNH-3/4-10UNC-SFT-PE-J		3/4-10UNC	19.050	105	37		14.0	11	14	3	4		
TNH-7/8-9UNC-SFT-PE-J		7/8-9UNC	22.225	115	38		17.0	13	16	3	4		
TNH-1-8UNC-SFT-PE-J		1-8UNC	25.400	125	45		20.0	15	18	3	4		
TNH-11/8-7UNC-SFT-PE-J		11/8-7UNC	28.575	135	48		22.0	17	20	3	4		
TNH-11/4-7UNC-SFT-PE-J		11/4-7UNC	31.750	145	51		24.0	19	22	3	4		
TNH-13/8-6UNC-SFT-PE-J		13/8-6UNC	34.925	155	57		26.0	21	24	3	4		
TNH-11/2-61JNC-SFT-PE-J		11/2-61JNC	38.100	160	60		30.0	23	26	3	4		
TNH-13/4-5UNC-SFT-PE-J		13/4-5UNC	44.450	175	67		35.0	26	30	3	4		
TNH-2-41/2UNC-SFT-PE-J		2-41/2UNC	50.800	195	70		40.0	32	35	3	4		

JIS UNF FINE SPIRAL TAPS JIS美制细牙螺旋槽系列



- 抗拉强度600-900N/MM²的高碳钢镍铬合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM²以下中低碳钢、铜、镁铝合金等。
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM² Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Magnesium aluminum alloy, etc.

通/盲孔
加工皆适
Tong/blind holes
Processing is optimal



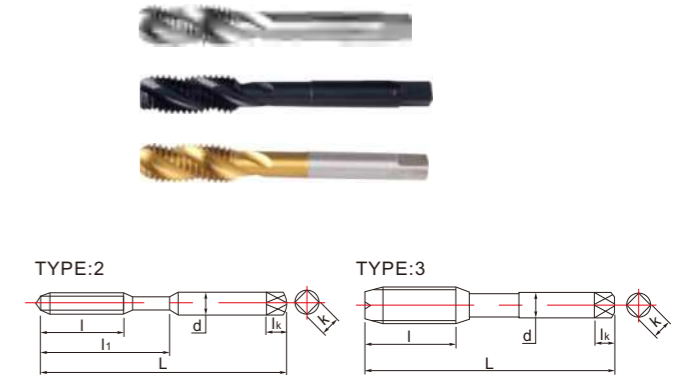
型号 Model	单价 Price	美制牙(UNC)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Nominal Dia.	L	l	l ₁	d	k	l _k				
TNH-No.2-64UNF-SFT-BE-J		No.2-64UNF	2.184	42	9.5	15	3.0	2.5	5	2	2		
TNH-No.3-56UNF-SFT-BE-J		No.3-56UNF	2.515	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.4-484JNF-SFT-BE-J		No.4-484JNF	2.845	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.5-44UNF-SFT-BE-J		No.5-44UNF	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-No.6-40UNF-SFT-BE-J		No.6-40UNF	3.505	48	13	20	4.0	3.2	6	2	3		
TNH-No.8-36UNF-SFT-BE-J		No.8-36UNF	4.166	52	13	21	5.0	4.0	7	2	3		
TNH-No.10-32UNF-SFT-BE-J		No.10-32UNF	4.826	60	16	25	5.5	4.5	7	2	3		
TNH-No.12-28JNF-SFT-BE-J		No.12-28JNF	5.486	60	16	25	5.5	4.5	7	2	3		
TNH-1/4-28UN F-SFT-BE-J		1/4-28UN F	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-1/4-32UNEF-SFT-BE-J		1/4-32UNEF	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16-24UNF-SFT-BE-J		5/16-24UNF	7.938	70	22		6.1	5.0	8	3	3		
TNH-5/16-32LJNEF-SFT-BE-J		5/16-32LJNEF	7.938	70	22		6.1	5.0	8	3	3		
TNH-3/8-24UNF-SFT-BE-J		3/8-24UNF	9.525	75	24		7.0	5.5	8	3	3		
TNH-3/8-32UNEF-SFT-BE-J		3/8-32UNEF	9.525	75	22		7.0	5.5	8	3	3		
TNH-7/16-20UNF-SFT-BE-J		7/16-20UNF	11.112	80	25		8.0	6.0	9	3	3		
TNH-7/16-28UNEF-SFT-BE-J		7/16-28UNEF	11.112	80	25		8.0	6.0	9	3	3		
TNH-1/2-20UN F-SFT-BE-J		1/2-20UN F	12.700	85	29		9.0	7.0	10	3	3		
TNH-1/2-28UNEF-SFT-BE-J		1/2-28UNEF	12.700	85	29		9.0	7.0	10	3	3		
TNH-9/16-18UNF-SFT-BE-J		9/16-18UNF	14.288	90	30		10.5	8.0	11	3	3		
TNH-9/16-244JNEF-SFT-BE-J		9/16-244JNEF	14.288	90	30		10.5	8.0	11	3	3		
TNH-5/8-18UNF-SFT-BE-J		5/8-18UNF	15.875	95	32		12.0	9.0	12	3	3		
TNH-5/8-24UNEF-SFT-BE-J		5/8-24UNEF	15.875	95	32		12.0	9.0	12	3	3		

JIS INCH COARSE SPIRAL TAPS JIS英制粗牙螺旋槽系列



- 抗拉强度600-900N/MM²的高碳钢镍铬合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM²以下中低碳钢、铜、镁铝合金等。
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM² Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Magnesium aluminum alloy, etc.

通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

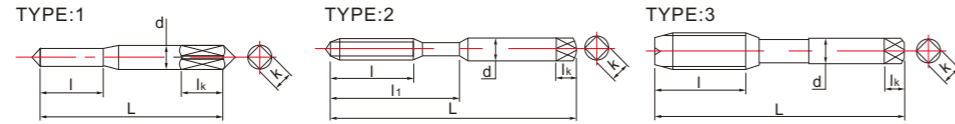


型号 Model	单价 Price	英制牙(BSW)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k				
TNH-1/8W40BSW-SFT-PE-J		1/8W40	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-5/32W32BSW-SFT-PE-J		5/32W32	3.969	52	13	21	5.0	4.0	7	2	3		
TNH-3/16W24BSW-SFT-PE-J		3/16W24	4.762	60	16	25	5.5	4.5	7	2	3		
TNH-7/32W24BSW-SFT-PE-J		7/32W24	5.556	60	16	25	5.5	4.5	7	2	3		
TNH-1/4W20BSW-SFT-PE-J		1/4W20	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16W18BSW-SFT-PE-J		5/16W18	7.938	70	22		6.1	5.0	8	3	3		
TNH-3/8W16BSW-SFT-PE-J		3/8W16	9.525	75	24		7.0	5.5	8	3	3		
TNH-7/16W14BSW-SFT-PE-J		7/16W14	11.112	80	25		8.0	6.0	9	3	3		
TNH-1/2W12BSW-SFT-PE-J		1/2W12	12.700	85	29		9.0	7.0	10	3	3		
TNH-9/16W12BSW-SFT-PE-J		9/16W12	14.288	90	30		10.5	8.0	11	3	3		
TNH-5/8W11BSW-SFT-PE-J		5/8W11	15.875	95	32		12.0	9.0	12	3	3		
TNH-3/4W10BSW-SFT-PE-J		3/4W10	19.050	105	37		14.0	11	14	3	4		
TNH-7/8W9BSW-SFT-PE-J		7/8W9	22.225	115	38		17.0	13	16	3	4		
TNH-1W8BSW-SFT-PE-J		1W8	25.400	125	45		20.0	15	18	3	4		
TNH-11/8W7BSW-SFT-PE-J		11/8W7	28.575	135	48		22.0	17	20	3	4		
TNH-11/4W7BSW-SFT-PE-J		11/4W7	31.750	145	51		24.0	19	22	3	4		
TNH-13/8W6BSW-SFT-PE-J		13/8W6	34.925	155	57		26.0	21	24	3	4		
TNH-11/2W6BSW-SFT-PE-J		11/2W6	38.100	165	60		30.0	23	26	3	4		
TNH-15/8W5BSW-SFT-PE-J		15/8W5	41.275	170	60		32.0	26	30	3	4		
TNH-13/4W5BSW-SFT-PE-J		13/4W5	44.450	175	67		35.0	26	30	3	4		
TNH-17/8W41/2BSW-SFT-PE-J		17/8W41/2	47.625	185	67		38.0	29	32	3	4		
TNH-2W41/2BSW-SFT-PE-J		2W41/2	50.800	195	70		40.0	32	35	3	4		

JIS METRIC COARSE GUN TAPS JIS公制粗牙先端系列



- 适用被切削材料: 不锈钢、碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM²以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum magnesium alloy, etc.



通孔加工
Hole processing

型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l _k				
TNH-M1.0X0.25-POT-PE-J		M1	0.25	32	5.5		3.0	2.5	5	1	2		
TNH-M1.1X0.25-POT-PE-J		M1.1	0.25	32	5.5		3.0	2.5	5	1	2		
TNH-M1.2X0.25-POT-PE-J		M1.2	0.25	32	5.5		3.0	2.5	5	1	2		
TNH-M1.4X0.3-POT-PE-J		M1.4	0.30	36	8.0		3.0	2.5	5	1	2		
TNH-M1.6X0.35-POT-PE-J		M1.6	0.35	36	8.0		3.0	2.5	5	1	2		
TNH-M1.7X0.35-POT-PE-J		M1.7	0.35	36	8.0		3.0	2.5	5	1	2		
TNH-M1.8X0.35-POT-PE-J		M1.8	0.35	36	8.0		3.0	2.5	5	1	2		
TNH-M2.0X0.4-POT-PE-J		M2	0.40	42	9.5	15	3.0	2.5	5	2	3		
TNH-M2.2X0.45-POT-PE-J		M2.2	0.45	42	9.5	15	3.0	2.5	5	2	3		
TNH-M2.3X0.4-POT-PE-J		M2.3	0.40	42	9.5	15	3.0	2.5	5	2	3		
TNH-M2.5X0.45-POT-PE-J		M2.5	0.45	44	9.5	16	3.0	2.5	5	2	3		
TNH-M2.6X0.45-POT-PE-J		M2.6	0.45	44	9.5	16	3.0	2.5	5	2	3		
TNH-M3.0X0.5-POT-PE-J		M3	0.50	46	11	18	4.0	3.2	6	2	3		
TNH-M3.5X0.6-POT-PE-J		M3.5	0.60	48	13	20	4.0	3.2	6	2	3		
TNH-M4.0X0.7-POT-PE-J		M4	0.70	52	13	20	5.0	4.0	7	2	3		
TNH-M4.5X0.75-POT-PE-J		M4.5	0.75	52	13	21	5.0	4.0	7	2	3		
TNH-M5.0X0.8-POT-PE-J		M5	0.80	60	16	25	5.5	4.5	7	2	3		
TNH-M5.5X0.9-POT-PE-J		M5.5	0.90	60	16	25	5.5	4.5	7	2	3		
TNH-M6.0X1.0-POT-PE-J		M6	1.00	62	19	28	6.0	4.5	7	2	3		
TNH-M7.0X1.0-POT-PE-J		M7	1.00	65	19	30	6.2	5.0	8	3	3		
TNH-M8.0X1.25-POT-PE-J		M8	1.25	70	22	30	6.2	5.0	8	3	3		
TNH-M9.0X1.25-POT-PE-J		M9	1.25	72	22	30	7.0	5.5	8	3	3		
TNH-M10.0X1.5-POT-PE-J		M10	1.50	75	24	30	7.0	5.5	8	3	3		
TNH-M11X1.5-POT-PE-J		M11	1.50	80	25	30	8.0	6.0	9	3	3		
TNH-M12X1.75-POT-PE-J		M12	1.75	82	29	30	8.5	6.5	9	3	3		
TNH-M14X2.0-POT-PE-J		M14	2.00	88	30	30	10.5	8.0	11	3	3		
TNH-M15X2.0-POT-PE-J		M15	2.00	90	30	30	10.5	8.0	11	3	3		
TNH-M16X2.0-POT-PE-J		M16	2.00	95	32	30	12.5	10	13	3	3		
TNH-M17X2.0-POT-PE-J		M17	2.00	95	32	30	13.0	10	13	3	3		
TNH-M18X2.5-POT-PE-J		M18	2.50	100	37	30	14.0	11	14	3	3		
TNH-M20X2.5-POT-PE-J		M20	2.50	105	37	30	15.0	12	15	3	3		
TNH-M22X2.5-POT-PE-J		M22	2.50	115	38	30	17.0	13	16	3	3		
TNH-M24X3.0-POT-PE-J		M24	3.00	120	45	30	19.0	15	18	3	3		
TNH-M26X3.0-POT-PE-J		M26	3.00	125	45	30	20.0	15	18	3	4		
TNH-M27X3.0-POT-PE-J		M27	3.00	130	45	30	20.0	15	18	3	4		
TNH-M30X3.5-POT-PE-J		M30	3.50	135	48	30	23.0	17	20	3	4		
TNH-M33X3.5-POT-PE-J		M33	3.50	145	51	30	25.0	19	22	3	4		
TNH-M36X4.0-POT-PE-J		M36	4.00	155	57	30	28.0	21	24	3	4		
TNH-M39X4.0-POT-PE-J		M39	4.00	165	60	30	30.0	23	26	3	4		
TNH-M42X4.5-POT-PE-J		M42	4.50	175	60	30	32.0	26	30	3	4		

美制番数牙之外径换算速见表

The outer diameter conversion speed of American teeth is shown in table

番数	No.0	No.1	No.2	No.3	No.4	No.5	No.6	No.8	No.10	No.12
寸	0.06	0.073	0.086	0.099	0.112	0.125	0.138	0.164	0.19	0.216
mm	1.524	1.854	2.184	2.515	2.845	3.175	3.505	4.166	4.826	5.486

英制番数牙之外径换算速见表

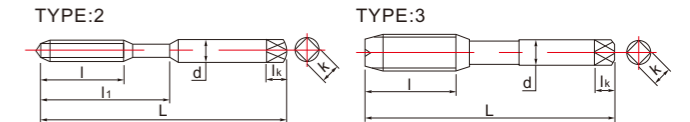
The outer diameter conversion speed of the British musculature is shown in table

英制	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1
吋	1分	1分2厘	1分半	2分	2分半	3分	3分半	4分	4分半	5分	5分半	6分	7分	8分
mm	3.175	3.9687	4.763	6.35	7.938	9.525	11.11	12.7	14.29	15.88	17.46	19.05	22.23	25.4

JIS METRIC FINE GUN TAPS JIS公制细牙先端系列



- 适用被切削材料: 碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM²以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: carbon steel, alloy steel, non-iron metal.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum magnesium alloy, etc.



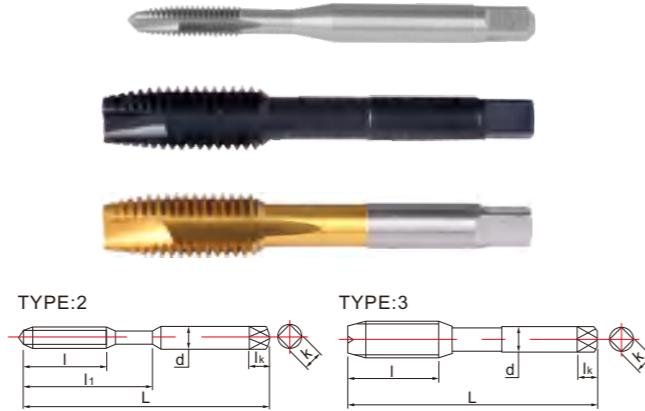
通孔加工
Hole processing

型号 Model	单价 Price	公制牙(MF)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l _k				
TNH-M2.0x0.25-POT-BE-J		M2	0.25	42	7.0	15	3.0	2.5	5	2	3		
TNH-M2.2x0.25-POT-BE-J		M2.2	0.25	42	7.0	15	3.0	2.5	5	2	3		
TNH-M2.5x0.35-POT-BE-J		M2.5	0.35	44	8.0	16	3.0	2.5	5	2	3		
TNH-M2.6x0.35-POT-BE-J		M2.6	0.35	44	8.0	16	3.0	2.5	5	2	3		
TNH-M3.0x0.6-POT-BE-J		M3	0.60	46	11	18	4.0	3.2	6	2	3		
TNH-M3.0x0.35-POT-BE-J		M3	0.35	46	9.5	18	4.0	3.2	6	2	3		
TNH-M3.5x0.35-POT-BE-J		M3.5	0.35	48	9.5	20	4.0	3.2	6	2	3		
TNH-M4.0x0.75-POT-BE-J		M4	0.75	52	13	21	5.0	4.0	7	2	3		
TNH-M4.0x0.5-POT-BE-J		M4	0.50	52	13	21	5.0	4.0	7	2	3		
TNH-M4.5x0.5-POT-BE-J		M4.5	0.50	55	13	21	5.0	4.0	7	2	3		
TNH-M5.0x0.5-POT-BE-J		M5	0.50	55	13	25	5.5	4.5	7	2	3		
TNH-M5.5x0.75-POT-BE-J		M5.5	0.75	60	16	25	5.5	4.5	7	2	3		
TNH-M6.0x0.75-POT-BE-J		M6	0.75	62	19	30	6.0	4.5	7	3	3		
TNH-M6.0x0.5-POT-BE-J		M6	0.50	55	13	25	6.0	4.5	7	3	3		
TNH-M7.0x0.75-POT-BE-J		M7	0.75	65	19	30	6.2	5.0	8	3	3		
TNH-M7.0x0.5-POT-BE-J		M7	0.50	55	13	25	6.2	5.0	8	3	3		
TNH-M8.0x1.0-POT-BE-J		M8	1.00	70	22	30	6.2	5.0	8	3	3		
TNH-M8.0x0.75-POT-BE-J		M8	0.75	70	22	30	6.2	5.0	8	3	3		
TNH-M9.0x1.0-POT-BE-J		M9	1.00	72	22	30	7.0	5.5	8	3	3		
TNH-M9.0x0.75-POT-BE-J		M9	0.75	72	22	30	7.0	5.5	8	3	3		
TNH-M9.0x0.5-POT-BE-J		M9	0.50	72	22	30	7.0	5.5	8	3	3		
TNH-M10x1.25-POT-BE-J		M10	1.25	75	24	30	7.0	5.5	8	3	3		
TNH-M10x1.0-POT-BE-J		M10	1.00	75	24	30	7.0	5.5	8	3	3		
TNH-M10x0.75-POT-BE-J		M10	0.75	75	22	30	7.0	5.5	8	3	3		
TNH-M10x0.5-POT-BE-J		M10	0.50	75	22	30	7.0	5.5	8	3	3		
TNH-M11x1.25-POT-BE-J		M11	1.25	80	25	30	8.0	6.0	9	3	3		
TNH-M11x1.0-POT-BE-J		M11	1.00	80	25	30	8.0	6.0	9	3	3		
TNH-M11x0.75-POT-BE-J		M11	0.75	75	22	30	8.0	6.0	9	3	3		
TNH-M12x1.5-POT-BE-J		M12	1.50	82	29	30	8.5	6.5	9	3	3		
TNH-M12x1.25-POT-BE-J		M12	1.25	82	29	30	8.5	6.5	9	3	3		
TNH-M12x0.75-POT-BE-J		M12	0.75	75	22	30	8.5	6.5	9	3	3		
TNH-M12x0.5-POT-BE-J		M12	0.50	75	22	30	8.5	6.5	9	3	3		
TNH-M13x1.75-POT-BE-J		M13	1.75	85	29	30	9.5	7.0	10	3	3		
TNH-M13x1.5-POT-BE-J		M13	1.50	85	29	30	9.5	7.0	10	3	3		
TNH-M14x1.5-POT-BE-J		M14	1.50	88	30	30	10.5	8.0	11	3	3		
TNH-M14x1.25-POT-BE-J		M14	1.25	88	30	30	10.5	8.0	11	3	3		
TNH-M14x1.0-POT-BE-J		M14	1.00	88	30	30	10.5	8.0	11	3	3		
TNH-M15x1.5-POT-BE-J		M15	1.50	90	30	30	10.5	8.0	11	3	3		
TNH-M15x1.0-POT-BE-J		M15	1.00	90	30	30	10.5	8.0	11	3	3		
TNH-M16x1.5-POT-BE-J		M16	1.50	95	32	30	12.5	10	13	3	3		
TNH-M16x1.0-POT-BE-J		M16	1.00	95	32	30	12.5	10	13	3	3		
TNH-M17x1.5-POT-BE-J		M17	1.50	95	32	30	13.0	10	13	3	3		
TNH-M17x1.0-POT-BE-J		M17	1.00	95	32	30	13.0	10	13	3	3		
TNH-M18x2.0-POT-BE-J		M18	2.00	100	37	30	14.0	11	14	3	3		
TNH-M18x1.5-POT-BE-J		M18	1.50	100	37	30	14.0	11	14	3	3		
TNH-M18x1.25-POT-BE-J		M18	1.25	95	30	30	14.0	11	14	3	3		
TNH-M18x1.0-POT-BE-J		M18	1.00	95	30	30	14.0	11	14	3	3		
TNH-M19x1.5-POT-BE-J		M19	1.50	105	37	30	14.0	11	14	3	3		
TNH-M19x1.0-POT-BE-J		M19	1.00	95	30	30	14.0	11	14	3	3		
TNH-M20x2.0-POT-BE-J		M20	2.00	105	37	30	15.0	12	15	3	3		
TNH-M20x1.5-POT-BE-J		M20	1.50	105	37	30	15.0	12	15	3	3		
TNH-M22x2.0-POT-BE-J		M22	2.00	115	38	30	17.0	13	16	3	3		
TNH-M22x1.5-POT-BE-J		M22	1.50	115	38	30	17.0	13	16	3	3		
TNH-M22x1.0-POT-BE-J		M22	1.00	95	30	30	17.0	13	16	3	3		

JIS METRIC FINE GUN TAPS JIS公制细牙先端系列



- 适用被切削材料：碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM²以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: carbon steel, alloy steel, non-iron metal.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum magnesium alloy, etc.

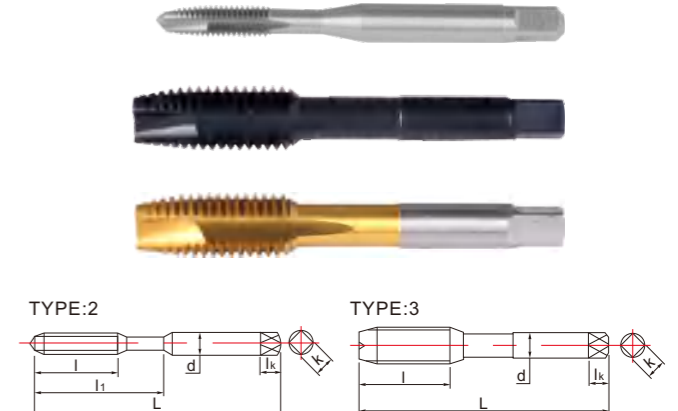


型号 Model	单价 Price	公制牙(MF)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l _k				
TNH-M23x1.5-POT-BE-J		M23	1.50	115	38		18.0	14	17	3	3		
TNH-M24x2.0-POT-BE-J		M24	2.00	120	45		19.0	15	18	3	3		
TNH-M24x1.5-POT-BE-J		M24	1.50	120	45		19.0	15	18	3	3		
TNH-M25x2.0-POT-BE-J		M25	2.00	125	45		19.0	15	18	3	3		
TNH-M25x1.5-POT-BE-J		M25	1.50	125	45		19.0	15	18	3	4		
TNH-M26x2.0-POT-BE-J		M26	2.00	125	45		20.0	15	18	3	4		
TNH-M26x1.5-POT-BE-J		M26	1.50	125	45		20.0	15	18	3	4		
TNH-M27x2.0-POT-BE-J		M27	2.00	130	45		20.0	15	18	3	4		
TNH-M27x1.5-POT-BE-J		M27	1.50	130	45		20.0	15	18	3	4		
TNH-M28x2.0-POT-BE-J		M28	2.00	130	45		21.0	17	20	3	4		
TNH-M28x1.5-POT-BE-J		M28	1.50	130	45		21.0	17	20	3	4		
TNH-M30x3.0-POT-BE-J		M30	3.00	135	48		23.0	17	20	3	4		
TNH-M30x2.0-POT-BE-J		M30	2.00	135	45		23.0	17	20	3	4		
TNH-M32x3.0-POT-BE-J		M32	3.00	145	51		24.0	19	22	3	4		
TNH-M32x2.0-POT-BE-J		M32	2.00	135	45		24.0	19	22	3	4		
TNH-M33x1.5-POT-BE-J		M33	1.50	135	45		25.0	19	22	3	4		
TNH-M33x1.0-POT-BE-J		M33	1.00	110	30		25.0	19	22	3	4		
TNH-M33x3.0-POT-BE-J		M33	3.00	145	51		25.0	19	22	3	4		
TNH-M33x2.0-POT-BE-J		M33	2.00	135	45		25.0	19	22	3	4		
TNH-M34x3.0-POT-BE-J		M34	3.00	145	51		26.0	21	24	3	4		
TNH-M34x2.0-POT-BE-J		M34	2.00	135	45		26.0	21	24	3	4		
TNH-M34x1.5-POT-BE-J		M34	1.50	135	45		26.0	21	24	3	4		
TNH-M34x1.0-POT-BE-J		M34	1.00	110	30		26.0	21	24	3	4		
TNH-M35x3.0-POT-BE-J		M35	3.00	155	57		26.0	21	24	3	4		
TNH-M35x2.0-POT-BE-J		M35	2.00	135	45		26.0	21	24	3	4		
TNH-M35x1.5-POT-BE-J		M35	1.50	135	45		26.0	21	24	3	4		
TNH-M36x3.0-POT-BE-J		M36	3.00	155	57		28.0	21	24	3	4		
TNH-M36x2.0-POT-BE-J		M36	2.00	135	45		28.0	21	24	3	4		
TNH-M36x1.5-POT-BE-J		M36	1.50	135	45		28.0	21	24	3	4		
TNH-M39x3.0-POT-BE-J		M39	3.00	165	60		30.0	23	26	3	4		
TNH-M39x2.0-POT-BE-J		M39	2.00	135	45		30.0	23	26	3	4		
TNH-M39x1.5-POT-BE-J		M39	1.50	135	45		30.0	23	26	3	4		
TNH-M40x3.0-POT-BE-J		M40	3.00	165	60		30.0	23	26	3	4		
TNH-M40x2.0-POT-BE-J		M40	2.00	135	45		30.0	23	26	3	4		
TNH-M40x1.5-POT-BE-J		M40	1.50	135	45		30.0	23	26	3	4		
TNH-M42x3.0-POT-BE-J		M42	3.00	175	60		32.0	26	30	3	4		
TNH-M42x2.0-POT-BE-J		M42	2.00	135	45		32.0	26	30	3	4		
TNH-M42x1.5-POT-BE-J		M42	1.50	135	45		32.0	26	30	3	4		
TNH-M45x3.0-POT-BE-J		M45	3.00	180	67		35.0	26	30	3	4		
TNH-M45x2.0-POT-BE-J		M45	2.00	140	45		35.0	26	30	3	4		
TNH-M45x1.5-POT-BE-J		M45	1.50	140	45		35.0	26	30	3	4		
TNH-M48x4.0-POT-BE-J		M48	4.00	185	67		38.0	29	32	3	4		
TNH-M48x3.0-POT-BE-J		M48	3.00	185	67		38.0	29	32	3	4		
TNH-M48x3.0-POT-BE-J		M48	2.00	140	45		38.0	29	32	3	4		
TNH-M48x1.5-POT-BE-J		M48	1.50	140	45		38.0	29	32	3	4		

JIS UNC COARSE GUN TAPS JIS美制粗牙先端系列



- 适用被切削材料：不锈钢、碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM²以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum magnesium alloy, etc.



型号 Model	单价 Price	美制牙(UNC)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Nominal Dia.	L	l	l ₁	d	k	l _k				
TNH-No.2-56UNC-POT-PE-J		No.2-56UNC	2.184	42	9.5	15	3.0	2.5	5	2	2		
TNH-No.3-48UNC-POT-PE-J		No.3-48UNC	2.515	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.4-40UNC-POT-PE-J		No.4-40UNC	2.845	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.5-40UNC-POT-PE-J		No.5-40UNC	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-No.6-32UNC-POT-PE-J		No.6-32UNC	3.505	48	13	20	4.0	3.2	6	2	3		
TNH-No.8-32UNC-POT-PE-J		No.8-32UNC	4.166	52	13	21	5.0	4.0	7	2	3		
TNH-No.10-24UNC-POT-PE-J		No.10-24UNC	4.826	60	16	25	5.5	4.5	7	2	3		
TNH-No.12-24UNC-POT-PE-J		No.12-24UNC	5.486	60	16	25	5.5	4.5	7	2	3		
TNH-1/4--20UNC-POT-PE-J		1/4--20UNC	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16-18UNC-POT-PE-J		5/16-18UNC	7.938	70	22		6.1	5.0	8	3	3		
TNH-3/8-16UNC-POT-PE-J		3/8-16UNC	9.525	75	24		7.0	5.5	8	3	3		
TNH-7/16-14UNC-POT-PE-J		7/16-14UNC	11.112	80	25		8.0	6.0	9	3	3		
TNH-1/2-13UNC-POT-PE-J		1/2-13UNC	12.700	85	29		9.0	7.0	10	3	3		
TNH-9/16-12UNC-POT-PE-J		9/16-12UNC	14.288	90	30		10.5	8.0	11	3	3		
TNH-5/8-11UNC-POT-PE-J		5/8-11UNC	15.875	95	32		12.0	9.0	12	3	3		
TNH-3/4-10UNC-POT-PE-J		3/4-10UNC	19.050	105	37		14.0	11	14	3	3		
TNH-7/8-9UNC-POT-PE-J		7/8-9UNC	22.225	115	38		17.0	13	16	3	3		
TNH-1-8UNC-POT-PE-J		1-8UNC	25.400	125	45		20.0	15	18	3	3		
TNH-11/8-7UNC-POT-PE-J		11/8-7UNC	28.575	135	48		22.0	17	20	3	4		
TNH-11/4-7UNC-POT-PE-J		11/4-7UNC	31.750	145	51		24.0	19	22	3	4		
TNH-13/8-6UNC-POT-PE-J		13/8-6UNC	34.925	155	57		26.0	21	24	3	4		
TNH-11/2-6UNC-POT-PE-J		11/2-6UNC	38.100	160	60		30.0	23	26	3	4		
TNH-13/4-5UNC-POT-PE-J		13/4-5UNC	44.450	175	67		35.0	26	30	3	4		

JIS UNF FINE GUN TAPS JIS美制细牙先端系列

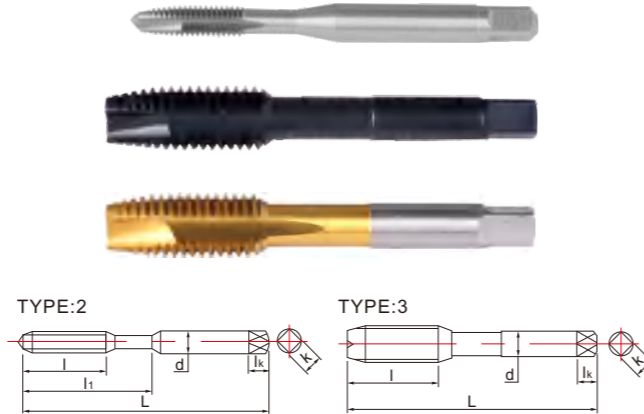


• 适用被切削材料：不锈钢、碳钢、合金钢、非铁金属。

• 抗拉强度750N/MM²以下中低碳钢、铜、铝镁合金等。

• Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.

• Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum magnesium alloy, etc.



通孔加工
Hole processing

型号 Model	单价 Price	美制牙(UNC)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Nominal Dia.	L	l	l ₁	d	k	l _k				
TNH-No.2-64UNF-POT-BE-J		No.2-64UNF	2.184	42	9.5	15	3.0	2.5	5	2	2		
TNH-No.3-56UNF-POT-BE-J		No.3-56UNF	2.515	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.4-48UNF-POT-BE-J		No.4-48UNF	2.845	44	9.5	16	3.0	2.5	5	2	2		
TNH-No.5-44UNF-POT-BE-J		No.5-44UNF	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-No.6-400UNF-POT-BE-J		No.6-400UNF	3.505	48	13	20	4.0	3.2	6	2	3		
TNH-No.8-36UNF-POT-BE-J		No.8-36UNF	4.166	52	13	21	5.0	4.0	7	2	3		
TNH-No.10-32UNF-POT-BE-J		No.10-32UNF	4.826	60	16	25	5.5	4.5	7	2	3		
TNH-No.12-28UNF-POT-BE-J		No.12-28UNF	5.486	60	16	25	5.5	4.5	7	2	3		
TNH-1/4-28UNF-POT-BE-J		1/4-28UNF	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-1/4-32UNF-POT-BE-J		1/4-32UNF	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16-24UNF-POT-BE-J		5/16-24UNF	7.938	70	22		6.1	5.0	8	3	3		
TNH-5/16-32UNF-POT-BE-J		5/16-32UNF	7.938	70	22		6.1	5.0	8	3	3		
TNH-3/8-24UNF-POT-BE-J		3/8-24UNF	9.525	75	24		7.0	5.5	8	3	3		
TNH-3/8-32UNF-POT-BE-J		3/8-32UNF	9.525	75	22		7.0	5.5	8	3	3		
TNH-7/16-20UNF-POT-BE-J		7/16-20UNF	11.112	80	25		8.0	6.0	9	3	3		
TNH-7/16-28UNF-POT-BE-J		7/16-28UNF	11.112	80	25		8.0	6.0	9	3	3		
TNH-1/2-20UNF-POT-BE-J		1/2-20UNF	12.700	85	29		9.0	7.0	10	3	3		
TNH-1/2-28UNF-POT-BE-J		1/2-28UNF	12.700	85	29		9.0	7.0	10	3	3		
TNH-9/16-18UNF-POT-BE-J		9/16-18UNF	14.288	90	30		10.5	8.0	11	3	3		
TNH-9/16-244UNF-POT-BE-J		9/16-244UNF	14.288	90	30		10.5	8.0	11	3	3		
TNH-5/8-18UNF-POT-BE-J		5/8-18UNF	15.875	95	32		12.0	9.0	12	3	3		
TNH-5/8-24UNF-POT-BE-J		5/8-24UNF	15.875	95	32		12.0	9.0	12	3	3		
TNH-3/4-16UNF-POT-BE-J		3/4-16UNF	19.050	105	37		14.0	11.0	14	3	3		
TNH-3/4-20UNF-POT-BE-J		3/4-20UNF	19.050	95	30		14.0	11.0	14	3	3		

JIS INCH COARSE GUN TAPS JIS英制粗牙先端系列



• 适用被切削材料：不锈钢、碳钢、合金钢、非铁金属。

• 抗拉强度750N/MM²以下中低碳钢、铜、铝镁合金等。

• Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.

• Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum magnesium alloy, etc.

通孔加工
Hole processing

型号 Model	单价 Price	英制牙(BSW)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k				
TNH-1/8W40BSW-POT-PE-J		1/8W40	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-5/32W32BSW-POT-PE-J		5/32W32	3.969	52	13	21	5.0	4.0	7	2	3		
TNH-3/16W24BSW-POT-PE-J		3/16W24	4.762	60	16	25	5.5	4.5	7	2	3		
TNH-7/32W24BSW-POT-PE-J		7/32W24	5.556	60	16	25	5.5	4.5	7	2	3		
TNH-1/4W20BSW-POT-PE-J		1/4W20	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16W18BSW-POT-PE-J		5/16W18	7.938	70	22		6.1	5.0	8	3	3		
TNH-3/8W16BSW-POT-PE-J		3/8W16	9.525	75	24		7.0	5.5	8	3	3		
TNH-7/16W14BSW-POT-PE-J		7/16W14	11.112	80	25		8.0	6.0	9	3	3		
TNH-1/2W12BSW-POT-PE-J		1/2W12	12.700	85	29		9.0	7.0	10	3	3		
TNH-9/16W12BSW-POT-PE-J		9/16W12	14.288	90	30		10.5	8.0	11	3	3		
TNH-5/8W11BSW-POT-PE-J		5/8W11	15.875	95	32		12.0	9.0	12	3	3		
TNH-3/4W10BSW-POT-PE-J		3/4W10	19.050	105	37		14.0	11	14	3	3		
TNH-7/8W9BSW-POT-PE-J		7/8W9	22.225	115	38		17.0	13	16	3	3		
TNH-1W8BSW-POT-PE-J		1W8	25.400	125	45		20.0	15	18	3	3		
TNH-11/8W7BSW-POT-PE-J		11/8W7	28.575	135	48		22.0	17	20	3	4		
TNH-11/4W7BSW-POT-PE-J		11/4W7	31.750	145	51		24.0	19	22	3	4		
TNH-13/8W6BSW-POT-PE-J		13/8W6	34.925	155	57		26.0	21	24	3	4		
TNH-11/2W6BSW-POT-PE-J		11/2W6	38.100	165	60		30.0	23	26	3	4		
TNH-15/8W5BSW-POT-PE-J		15/8W5	41.275	170	60		32.0	26	30	3	4		
TNH-13/4W5BSW-POT-PE-J		13/4W5	44.450	175	67		35.0	26	30	3	4		
TNH-17/8W41/2BSW-POT-PE-J		17/8W41/2	47.625	185	67		38.0	29	32	3	4		
TNH-2W41/2BSW-POT-PE-J		2W41/2	50.800	195	70		40.0	32	35	3	4		

JIS METRIC LEFT HANDED GUN TAPS JIS公制左旋右切系列

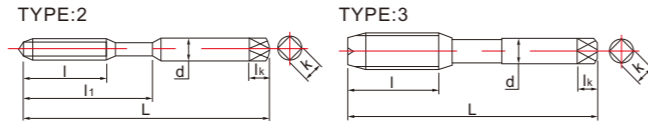


● 适用被切削材料: 不锈钢、碳钢、合金钢、非铁金属。

● 抗拉强度750N/MM²以下中低碳钢、铜、铝镁合金等。

● Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.

● Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum magnesium alloy, etc.



通孔加工
Hole processing

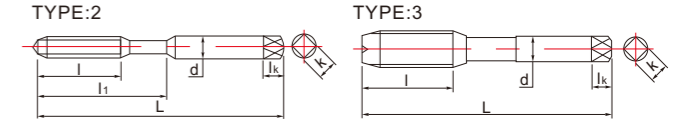
型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l _k				
TNH-M3.0x0.5-POT-LE-J		M3	0.50	46	11	18	4.0	3.2	6	2	3		
TNH-M3.0x0.35-POT-LE-J		M3	0.35	46	9.5	18	4.0	3.2	6	2	3		
TNH-M4.0x0.7-POT-LE-J		M4	0.70	52	13	20	5.0	4.0	7	2	3		
TNH-M4.0x0.5-POT-LE-J		M4	0.50	52	13	21	5.0	4.0	7	2	3		
TNH-M5.0x0.8-POT-LE-J		M5	0.80	60	16	25	5.5	4.5	7	2	3		
TNH-M5.0x0.5-POT-LE-J		M5	0.50	55	13	25	5.5	4.5	7	2	3		
TNH-M6.0x1.0-POT-LE-J		M6	1.00	62	19	28	6.0	4.5	7	2	3		
TNH-M6.0x0.75-POT-LE-J		M6	0.75	62	19	30	6.0	4.5	7	2	3		
TNH-M6.0x0.5-POT-LE-J		M6	0.50	55	13	25	6.0	4.5	7	2	3		
TNH-M8.0x1.25-POT-LE-J		M8	1.25	70	22		6.2	5.0	8	3	3		
TNH-M8.0x1.0-POT-LE-J		M8	1.00	70	22		6.2	5.0	8	3	3		
TNH-M8.0x0.75-POT-LE-J		M8	0.75	70	22		6.2	5.0	8	3	3		
TNH-M10x1.5-POT-LE-J		M10	1.50	75	24		7.0	5.5	8	3	3		
TNH-M10x1.25-POT-LE-J		M10	1.25	75	24		7.0	5.5	8	3	3		
TNH-M10x1.0-POT-LE-J		M10	1.00	75	24		7.0	5.5	8	3	3		
TNH-M10x0.75-POT-LE-J		M10	0.75	75	22		7.0	5.5	8	3	3		
TNH-M12x1.75-POT-LE-J		M12	1.75	82	29		8.5	6.5	9	3	3		
TNH-M12x1.5-POT-LE-J		M12	1.50	82	29		8.5	6.5	9	3	3		
TNH-M14x2.0-POT-LE-J		M14	2.00	88	30		10.5	8.0	11	3	3		
TNH-M16x2.0-POT-LE-J		M16	2.00	95	32		12.5	10.0	13	3	3		
TNH-M16x1.5-POT-LE-J		M16	1.50	95	32		12.5	10.0	13	3	3		
TNH-M16x1.0-POT-LE-J		M16	1.00	95	32		12.5	10.0	13	3	3		

JIS SPIRAL TAP FOR CAST IRON JIS铸铁专用螺旋槽系列



● 适用被切削材料: 铸铁、球状石墨铸铁、强刃铸铁等。
● 硬化处理, 锻钢HRC35°≥20°

● Suitable for cutting materials: cast iron, spherical graphite cast iron, strong edge cast iron, etc.
● hardening treatment, forged steel HRC35°≥20°



型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l _k				
TKH-M2.0x0.4-SFT-PE-J		M2	0.40	42	9.5	15	3.0	2.5	5	2	2		
TKH-M2.2x0.45-SFT-PE-J		M2.2	0.45	42	9.5	15	3.0	2.5	5	2	2		
TKH-M2.5x0.45-SFT-PE-J		M2.5	0.45	44	9.5	16	3.0	2.5	5	2	2		
TKH-M2.6x0.45-SFT-PE-J		M2.6	0.45	44	9.5	16	3.0	2.5	5	2	2		
TKH-M3.0x0.5-SFT-PE-J		M3	0.50	46	11	18	4.0	3.2	6	2	3		
TKH-M4.0x0.7-SFT-PE-J		M4	0.70	52	13	20	5.0	4.0	7	2	3		
TKH-M5.0x0.8-SFT-PE-J		M5	0.80	60	16	25	5.5	4.5	7	2	3		
TKH-M6.0x1.0-SFT-PE-J		M6	1.00	62	19	28	6.0	4.5	7	2	3		
TKH-M8.0x1.25-SFT-PE-J		M8	1.25	70	22		6.2	5.0	8	3	3		
TKH-M10x1.5-SFT-PE-J		M10	1.50	75	24		7.0	5.5	8	3	3		
TKH-M12x1.75-SFT-PE-J		M12	1.75	82	29		8.5	6.5	9	3	3		
TKH-M14x2.0-SFT-PE-J		M14	2.00	88	30		10.5	8.0	11	3	3		
TKH-M16x2.0-SFT-PE-J		M16	2.00	95	32		12.5	10	13	3	3		
TKH-M18x2.5-SFT-PE-J		M18	2.50	100	37		14.0	11	14	3	4		
TKH-M20x2.5-SFT-PE-J		M20	2.50	105	37		15	12	15	3	4		
TKH-M22x2.5-SFT-PE-J		M22	2.50	115	38		17	13	16	3	4		
TKH-M24x3.0-SFT-PE-J		M24	3.00	120	45		19	15	18	3	4		
TKH-M26x3.0-SFT-PE-J		M26	3.00	125	45		20	15	18	3	4		
TKH-M27x3.0-SFT-PE-J		M27	3.00	130	45		20	15	18	3	4		
TKH-M30x3.5-SFT-PE-J		M30	3.50	135	48		23	17	20	3	4		
TKH-M33x3.5-SFT-PE-J		M33	3.50	145	51		25	19	22	3	4		
TKH-M36x4.0-SFT-PE-J		M36	4.00	155	57		28	21	24	3	4		

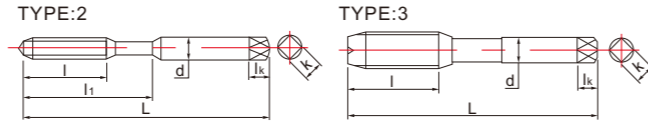
JIS SPIRAL TAPS FOR STAINLESS STEEL JIS不锈钢专用螺旋槽系列



- 适用被切削材料: 抗拉强度750N/MM²以下之不锈钢、碳钢、合金钢、铁钢与调质钢。
- 建议适用于攻牙深度为丝攻外径1.5倍2倍之牙孔。

- Suitable for cutting materials: tensile strength of 750N/MM² or less Stainless steel, carbon steel, alloy steel, iron steel and tempered steel.
- Recommended for tapping depth 1.5 times and 2 times of tapping diameter The tooth holes.

通/盲孔
加工皆适
Tong/blind holes
Processing is optimal



型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l ₁	d	k	l _k	Type	Flutes
TMH-M2.0x0.4-SFT-PE-J		M2	0.40	42	4.0	15	3.0	2.5	5	2	2
TMH-M2.5x0.45-SFT-PE-J		M2.5	0.45	44	4.5	16	3.0	2.5	5	2	2
TMH-M2.6x0.45-SFT-PE-J		M2.6	0.45	44	4.5	16	3.0	2.5	5	2	2
TMH-M3.0x0.5-SFT-PE-J		M3	0.50	46	5.0	18	4.0	3.2	6	2	3
TMH-M4.0x0.7-SFT-PE-J		M4	0.70	52	7.0	20	5.0	4.0	7	2	3
TMH-M5.0x0.8-SFT-PE-J		M5	0.80	60	8.0	25	5.5	4.5	7	2	3
TMH-M6.0x1.0-SFT-PE-J		M6	1.00	62	11	28	6.0	4.5	7	2	3
TMH-M8.0x1.25-SFT-PE-J		M8	1.25	70	12		6.2	5.0	8	3	3
TMH-M10x1.5-SFT-PE-J		M10	1.50	75	13		7.0	5.5	8	3	3
TMH-M12x1.75-SFT-PE-J		M12	1.75	82	15		8.5	6.5	9	3	3
TMH-M14x2.0-SFT-PE-J		M14	2.00	88	18		10.5	8.0	11	3	3
TMH-M16x2.0-SFT-PE-J		M16	2.00	95	18		12.5	10	13	3	3
TMH-M18x2.5-SFT-PE-J		M18	2.50	100	20		14.0	11	14	3	4
TMH-M20x2.5-SFT-PE-J		M20	2.50	105	20		15.0	12	15	3	4
TMH-M22x2.5-SFT-PE-J		M22	2.50	115	20		17.0	13	16	3	4
TMH-M24x3.0-SFT-PE-J		M24	3.00	120	25		19.0	15	18	3	4

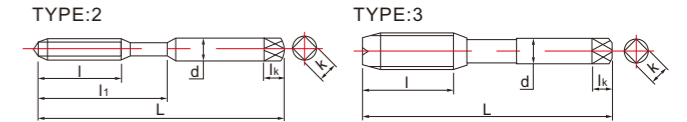
JIS SPIRAL TAPS FOR COPPER ALUMINUM JIS铜铝合金专用螺旋槽系列



- 适用被切削材料: 铝、锌、压铸合金等非铁金属。
- 注意: 符号※者较合适MACHINE/CNC自动化刚性攻牙。

- Suitable for cutting materials: aluminum, zinc, die-casting alloy and other non-iron The metal.
- Note: the symbol ※ is more suitable for MACHINE/CNC automatic Tempered tapping.

通/盲孔
加工皆适
Tong/blind holes
Processing is optimal



型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l ₁	d	k	l _k	Type	Flutes
TAH-M2.0x0.4-SFT-PE-J		M2	0.40	42	4.0	15	3.0	2.5	5	2	2
TAH-M2.5x0.45-SFT-PE-J		M2.5	0.45	44	4.5	16	3.0	2.5	5	2	2
TAH-M2.6x0.45-SFT-PE-J		M2.6	0.45	44	4.5	16	3.0	2.5	5	2	2
TAH-M3.0x0.5-SFT-PE-J		M3	0.50	46	5.0	18	4.0	3.2	6	2	3
TAH-M4.0x0.7-SFT-PE-J		M4	0.70	52	7.0	20	5.0	4.0	7	2	3
TAH-M5.0x0.8-SFT-PE-J		M5	0.80	60	8.0	25	5.5	4.5	7	2	3
TAH-M6.0x1.0-SFT-PE-J		M6	1.00	62	11	28	6.0	4.5	7	2	3
TAH-M8.0x1.25-SFT-PE-J		M8	1.25	70	12		6.2	5.0	8	3	3
TAH-M10x1.5-SFT-PE-J		M10	1.50	75	13		7.0	5.5	8	3	3
TAH-M12x1.75-SFT-PE-J		M12	1.75	82	15		8.5	6.5	9	3	3
TAH-M14x2.0-SFT-PE-J		M14	2.00	88	18		10.5	8.0	11	3	3
TAH-M16x2.0-SFT-PE-J		M16	2.00	95	18		12.5	10	13	3	3
TAH-M18x2.5-SFT-PE-J		M18	2.50	100	20		14.0	11	14	3	4
TAH-M20x2.5-SFT-PE-J		M20	2.50	105	20		15.0	12	15	3	4
TAH-M22x2.5-SFT-PE-J		M22	2.50	115	20		17.0	13	16	3	4
TAH-M24x3.0-SFT-PE-J		M24	3.00	120	25		19.0	15	18	3	4

JIS SPIRAL TAPS FOR GUN TAP JIS不锈钢专用先端丝攻



- 适用被切削材料:抗拉强度750N/MM²以下之不锈钢、碳钢、合金钢、铁钢与调质钢。
- 建议适用于攻牙深度为丝攻外径1.5倍2倍之牙孔。
- Suitable for cutting materials: tensile strength of 750N/MM² or less Stainless steel, carbon steel, alloy steel, iron steel and tempered steel.
- Recommended for tapping depth 1.5 times and 2 times of tapping diameter The tooth holes.

型号 Model	单价 Price	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l ₁	d	k	l _k	Type	Flutes
TMH-M2.0x0.40-POT-PE-J		M2	0.40	42	9.5	15	3.0	2.5	5	2	2
TMH-M2.5x0.45-POT-PE-J		M2.5	0.45	44	9.5	16	3.0	2.5	5	2	2
TMH-M3x0.50-POT-PE-J		M3	0.50	46	11	18	4.0	3.2	6	2	3
TMH-M3.5x0.60-POT-PE-J		M3.5	0.60	48	13	20	4.0	3.2	6	2	3
TMH-M4.0x0.70-POT-PE-J		M4	0.70	52	13	20	5.0	4.0	7	2	3
TMH-M5.0x0.80-POT-PE-J		M5	0.80	60	16	25	5.5	4.5	7	2	3
TMH-M6.0x1.00-POT-PE-J		M6	1.00	62	19	28	6.0	4.5	7	2	3
TMH-M8.0x1.25-POT-PE-J		M8	1.25	70	22		6.2	5.0	8	3	3
TMH-M10x1.50-POT-PE-J		M10	1.50	75	24		7.0	5.5	8	3	3
TMH-M12x1.75-POT-PE-J		M12	1.75	82	29		8.5	6.5	9	3	3
TMH-M14x2.00-POT-PE-J		M14	2.00	88	30		10.5	8.0	11	3	3
TMH-M16x2.00-POT-PE-J		M16	2.00	95	32		12.5	10	13	3	3
TMH-M18x2.50-POT-PE-J		M18	2.50	100	37		14.0	11	14	3	3
TMH-M20x2.50-POT-PE-J		M20	2.50	105	37		15.0	12	15	3	3
TMH-M22x2.50-POT-PE-J		M22	2.50	115	48		17.0	13	16	3	3
TMH-M24x3.00-POT-PE-J		M24	3.00	120	45		19.0	15	18	3	3

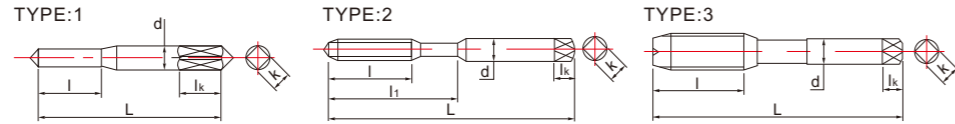
JIS FORMING TAPS JIS公制挤压丝攻系列



- 适用加工:紫铜、黄铜、铝锌合金材, 压铸材等可塑非铁合金。
- 抗拉强度750N/MM²以下之中低碳钢、合金钢、不锈钢等.....
- Suitable for processing: copper, brass, aluminum zinc alloy material, die casting Plastic non - ferrous alloys.
- Low carbon steel with tensile strength up to 750N/MM² Gold steel, stainless steel, etc...



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal



型号 Model	单价 Price	公制牙(M)		精度	尺寸 Dimensions(mm)						
		Size	Pitch		L	l	l ₁	d	k	lk	Type
TNH-M1.0x0.25-KRT-J-H4		M1	0.25	H4	32	5.5		3.0	2.5	5	1
TNH-M1.0x0.25-KRT-J-H5				H5							
TNH-M1.2x0.25-KRT-J-H4		M1.2	0.25	H4	32	5.5		3.0	2.5	5	1
TNH-M1.2x0.25-KRT-J-H5				H5							
TNH-M1.4x0.3-KRT-J-H4		M1.4	0.30	H4	36	8.0		3.0	2.5	5	1
TNH-M1.4x0.3-KRT-J-H5				H5							
TNH-M1.6x0.35-KRT-J-H4		M1.6	0.35	H4	36	8.0		3.0	2.5	5	1
TNH-M1.6x0.35-KRT-J-H5				H5							
TNH-M1.7x0.35-KRT-J-H4		M1.7	0.35	H4	36	8.0		3.0	2.5	5	1
TNH-M1.7x0.35-KRT-J-H5				H5							
TNH-M2.0x0.4-KRT-J-H4		M2	0.40	H4	42	9.5		3.0	2.5	5	2
TNH-M2.0x0.4-KRT-J-H5				H5							
TNH-M2.0x0.4-KRT-J-H6				H6							
TNH-M2.3x0.4-KRT-J-H4		M2.3	0.40	H4	42	9.5	15	3.0	2.5	5	2
TNH-M2.5x0.45-KRT-J-H5		M2.5	0.45	H5	44	9.5	15	3.0	2.5	5	2
TNH-M2.5x0.45-KRT-J-H6				H6							
TNH-M2.6x0.45-KRT-J-H5		M2.6	0.45	H5	44	9.5	16	3.0	2.5	5	2
TNH-M2.6x0.45-KRT-J-H6				H6							
TNH-M3.0x0.5-KRT-J-H5		M3	0.50	H5	46	11	16	4.0	3.2	6	2
TNH-M3.0x0.5-KRT-J-H6				H6							
TNH-M3.0x0.5-KRT-J-H7				H7							
TNH-M3.5x0.6-KRT-J-H5		M3.5	0.60	H5	48	13	18	4.0	3.2	6	2
TNH-M3.5x0.6-KRT-J-H6				H6							
TNH-M3.5x0.6-KRT-J-H7				H7							
TNH-M4.0x0.7-KRT-J-H6		M4	0.70	H6	52	13	20	5.0	4.0	7	2
TNH-M4.0x0.7-KRT-J-H7				H7							
TNH-M5.0x0.8-KRT-J-H6		M5	0.80	H6	60	16	21	5.5	4.5	7	2
TNH-M5.0x0.8-KRT-J-H7				H7							
TNH-M6.0x1.0-KRT-J-H6		M6	1.00	H6	62	19	25	6.0	4.5	7	2
TNH-M6.0x1.0-KRT-J-H7				H7							
TNH-M8.0x1.25-KRT-J-H7		M8	1.25	H7	70	22	30	6.2	5.0	8	3
TNH-M8.0x1.25-KRT-J-H8				H8							

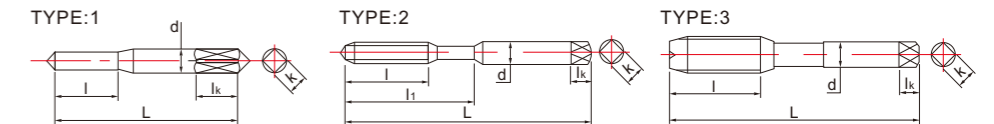
JIS UNC FORMING TAPS JIS美制挤压丝攻系列



- 适用加工:紫铜、黄铜、铝锌合金材, 压铸材等可塑非铁合金。
- 抗拉强度750N/MM²以下之中低碳钢、合金钢、不锈钢等.....
- Suitable for processing: copper, brass, aluminum zinc alloy material, die casting Plastic non - ferrous alloys.
- Low carbon steel with tensile strength up to 750N/MM² Gold steel, stainless steel, etc...



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal



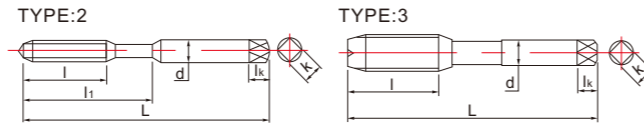
型号 Model	单价 Price	公制牙(M)		精度	尺寸 Dimensions(mm)						
		Size	Nominal Dia.		L	l	l ₁	d	k	lk	Type
TNH-No.0-800JNF-KRT-J-H4		No.0-800JNF	1.524	H4	36	8		3.0	2.5	5	1
TNH-No.1-72UNF-KRT-J-H4		No.1-72UNF	1.854	H4	36	8		3.0	2.5	5	1
TNH-No.1-72UNF-KRT-J-H5				H5							
TNH-No.2-56UNC-KRT-J-H4		No.2-56UNC	2.184	H4	42	9.5	15	3.0	2.5	5	2
TNH-No.2-56UNC-KRT-J-H5				H5							
TNH-No.4-400JNC-KRT-J-H5		No.4-400JNC	2.845	H5							
TNH-No.4-400JNC-KRT-J-H6				H6							
TNH-No.4-400JNC-KRT-J-H7				H7							
TNH-No.5-401JNC-KRT-J-H4		No.5-401JNC	3.175	H4	46	11	18	4.0	3.2	6	2
TNH-No.6-32UNC-KRT-J-H5		No.6-32UNC	3.505	H5							
TNH-No.6-32UNC-KRT-J-H6				H6							
TNH-No.6-32UNC-KRT-J-H7				H7							
TNH-No.8-32UNC-KRT-J-H6		No.8-32UNC	4.166	H6	52	13	21	5.0	4.0	7	2
TNH-No.8-32UNC-KRT-J-H7				H7							
TNH-No.8-32UNC-KRT-J-H8				H8							
TNH-No.10-24UNC-KRT-J-H6		No.10-24UNC	4.826	H6	60	16	25	5.5	4.5	7	2
TNH-No.10-24UNC-KRT-J-H7				H7							
TNH-No.10-32UNF-KRT-J-H6		No.10-32UNF	4.826	H6	60	16	25	5.5	4.5	7	2
TNH-No.10-32UNF-KRT-J-H7				H7							
TNH-1/4-20UNC-KRT-J-H6		1/4-20UNC	6.350	H6	62	19	30	6.0	4.5	7	3
TNH-1/4-20UNC-KRT-J-H7				H7							
TNH-1/4-20UNC-KRT-J-H8				H8							
TNH-1/4-28UNF-KRT-J-H6		1/4-28UNF	6.350	H6	62	19	30	6.0	4.5	7	3
TNH-1/4-28UNF-KRT-J-H7				H7							
TNH-5/16-18UNC-KRT-J-H7		5/16-18UNC	7.938	H7	70	22		6.1	5.0	8	3
TNH-5/16-18UNC-KRT-J-H8				H8							
TNH-5/16-24UNF-KRT-J-H7		5/16-24UNF	7.938	H7	70	22		6.1	5.0	8	3
TNH-5/16-24UNF-KRT-J-H8				H8							
TNH-3/8-16UNC-KRT-J-H7		3/8-16UNC	9.525	H7	75	24		7.0	5.5	8	3
TNH-3/8-16UNC-KRT-J-H8				H8							
TNH-3/8-24UNF-KRT-J-H7		3/8-24UNF	9.525	H7	75	24		7.0	5.5	8	3
TNH-3/8-24UNF-KRT-J-H8				H8							

JIS METRIC SPIRAL TAPS FOR POWDER METALLURGY JIS公制粉末高速钢螺旋槽系列



- 适用被切削材料:耐热铜、铸铁、球状石墨
铸铁, 强刃铸铁等。
- 抗拉强度750N/MM²以下中低碳钢、铜、铝
镁合金。
- Suitable for cutting materials: heat-resistant copper, cast iron, spherical graphite
Cast iron, strong edge cast iron, etc.
- Tensile strength under 750N/MM² medium and low carbon steel, copper, aluminum
Magnesium alloys.

通/盲孔
加工皆适
Tomb/ blind holes
Processing is optimal



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	li	d	k	li				
TNP-M2.0x0.4-SFT-J	○	M2	0.40	42	9.5	15	3.0	2.5	5	2	2		
TNP-M2.2x0.45-SFT-J	○	M2.2	0.45	42	9.5	15	3.0	2.5	5	2	2		
TNP-M2.3x0.4-SFT-J	○	M2.3	0.40	42	9.5	15	3.0	2.5	5	2	2		
TNP-M2.5x0.45-SFT-J	○	M2.5	0.45	44	9.5	16	3.0	2.5	5	2	2		
TNP-M2.6x0.45-SFT-J	○	M2.6	0.45	44	9.5	16	3.0	2.5	5	2	2		
TNP-M3.0x0.5-SFT-J	○	M3	0.50	46	11	18	4.0	3.2	6	2	3		
TNP-M3.5x0.6-SFT-J	○	M3.5	0.60	48	13	20	4.0	3.2	6	2	3		
TNP-M4.0x0.7-SFT-J	○	M4	0.70	52	13	20	5.0	4.0	7	2	3		
TNP-M4.5x0.75-SFT-J	○	M4.5	0.75	55	13	21	5.0	4.0	7	2	3		
TNP-M5.0x0.8-SFT-J	○	M5	0.80	60	16	25	5.5	4.5	7	2	3		
TNP-M6.0x1.0-SFT-J	○	M6	1.00	62	19	28	6.0	4.5	7	2	3		
TNP-M7.0x1.0-SFT-J	○	M7	1.00	65	19	30	6.2	5.0	8	3	3		
TNP-M8.0x1.25-SFT-J	○	M8	1.25	70	22		6.2	5.0	8	3	3		
TNP-M9.0x1.25-SFT-J	○	M9	1.25	72	22		7.0	5.5	8	3	3		
TNP-M10x1.5-SFT-J	○	M10	1.50	75	24		7.0	5.5	8	3	3		
TNP-M11x1.5-SFT-J	○	M11	1.50	80	25		8.0	6.0	9	3	3		
TNP-M12x1.75-SFT-J	○	M12	1.75	82	29		8.5	6.5	9	3	3		
TNP-M14x2.0-SFT-J	○	M14	2.00	88	30		10.5	8.0	11	3	3		
TNP-M15x2.0-SFT-J	○	M15	2.00	90	30		10.5	8.0	11	3	3		
TNP-M16x2.0-SFT-J	○	M16	2.00	95	32		12.5	10	13	3	3		
TNP-M18x2.5-SFT-J	○	M18	2.50	100	37		14.0	11	14	3	4		
TNP-M20x2.5-SFT-J	○	M20	2.50	105	37		15.0	12	15	3	4		
TNP-M22x2.5-SFT-J	○	M22	2.50	115	38		17.0	13	16	3	4		
TNP-M24x3.0-SFT-J	○	M24	3.00	120	45		19.0	15	18	3	4		

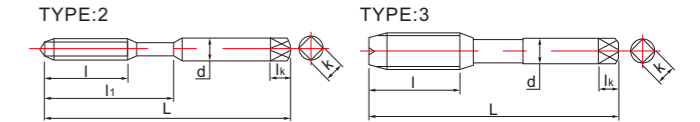
●标准库存 Standard inventory ○订单生产 Order production

JIS METRIC GUN TAPS FOR POWDER METALLURGY JIS公制粉末高速钢先端系列



- 适用被切削材料: 硬度HRC40以下不锈钢、
碳钢、合金钢、调质钢、耐热钢等。
- Suitable to be cut material: hardness HRC40 stainless steel,
Carbon steel, alloy steel, quenched and tempered steel, heat resistant steel, etc.

通孔加工
Hole processing



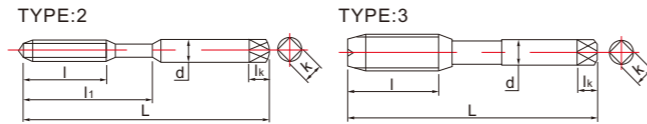
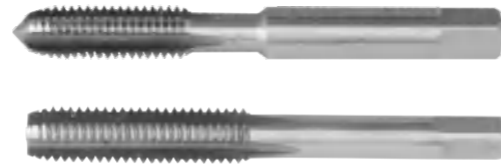
型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	li	d	k	li				
TNP-M2.0x0.4-POT-J	○	M2	0.40	42	9.5	15	3.0	2.5	5	2	2		
TNP-M2.2x0.45-POT-J	○	M2.2	0.45	42	9.5	15	3.0	2.5	5	2	2		
TNP-M2.3x0.4-POT-J	○	M2.3	0.40	42	9.5	15	3.0	2.5	5	2	2		
TNP-M2.5x0.45-POT-J	○	M2.5	0.45	44	9.5	16	3.0	2.5	5	2	2		
TNP-M2.6x0.45-POT-J	○	M2.6	0.45	44	9.5	16	3.0	2.5	5	2	2		
TNP-M3.0x0.5-POT-J	○	M3	0.50	46	11	18	4.0	3.2	6	2	3		
TNP-M3.5x0.6-POT-J	○	M3.5	0.60	48	13	20	4.0	3.2	6	2	3		
TNP-M4.0x0.7-POT-J	○	M4	0.70	52	13	20	5.0	4.0	7	2	3		
TNP-M4.5x0.75-POT-J	○	M4.5	0.75	55	13	21	5.0	4.0	7	2	3		
TNP-M5.0x0.8-POT-J	○	M5	0.80	60	16	25	5.5	4.5	7	2	3		
TNP-M6.0x1.0-POT-J	○	M6	1.00	62	19	28	6.0	4.5	7	2	3		
TNP-M7.0x1.0-POT-J	○	M7	1.00	65	19	30	6.2	5.0	8	3	3		
TNP-M8.0x1.25-POT-J	○	M8	1.25	70	22		6.2	5.0	8	3	3		
TNP-M9.0x1.25-POT-J	○	M9	1.25	72	22		7.0	5.5	8	3	3		
TNP-M10x1.5-POT-J	○	M10	1.50	75	24		7.0	5.5	8	3	3		
TNP-M11x1.5-POT-J	○	M11	1.50	80	25		8.0	6.0	9	3	3		
TNP-M12x1.75-POT-J	○	M12	1.75	82	29		8.5	6.5	9	3	3		
TNP-M14x2.0-POT-J	○	M14	2.00	88	30		10.5	8.0	11	3	3		
TNP-M15x2.0-POT-J	○	M15	2.00	90	30		10.5	8.0	11	3	3		
TNP-M16x2.0-POT-J	○	M16	2.00	95	32		12.5	10	13	3	3		
TNP-M18x2.5-POT-J	○	M18	2.50	100	37		14.0	11	14	3	3		
TNP-M20x2.5-POT-J	○	M20	2.50	105	37		15.0	12	15	3	3		
TNP-M22x2.5-POT-J	○	M22	2.50	115	38		17.0	13	16	3	3		
TNP-M24x3.0-POT-J	○	M24	3.00	120	45		19.0	15	18	3	3		

●标准库存 Standard inventory ○订单生产 Order production

JIS METRIC COARSE HAND TAPS JIS公制粗牙手用丝攻系列



- 适用被切削材料: 铸铁、青铜、铸铝、中低碳钢、模具钢。
- Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

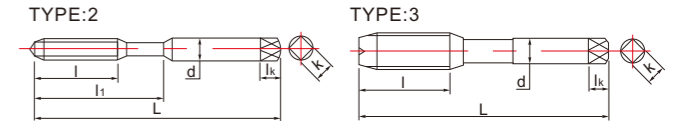
型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	li	d	k	li				
TNH-M2.0x0.4-HT-PE-J	○	M2	0.40	42	9.5	15	3.0	2.5	5	2	3		
TNH-M2.2x0.45-HT-PE-J	○	M2.2	0.45	42	9.5	15	3.0	2.5	5	2	3		
TNH-M2.3x0.4-HT-PE-J	○	M2.3	0.40	42	9.5	15	3.0	2.5	5	2	3		
TNH-M2.5x0.45-HT-PE-J	○	M2.5	0.45	44	9.5	16	3.0	2.5	5	2	3		
TNH-M2.6x0.45-HT-PE-J	○	M2.6	0.45	44	9.5	16	3.0	2.5	5	2	3		
TNH-M3.0x0.5-HT-PE-J	○	M3	0.50	46	11	18	4.0	3.2	6	2	3		
TNH-M3.5x0.6-HT-PE-J	○	M3.5	0.60	48	13	20	4.0	3.2	6	2	3		
TNH-M4.0x0.7-HT-PE-J	○	M4	0.70	52	13	20	5.0	4.0	7	2	3		
TNH-M4.5x0.75-HT-PE-J	○	M4.5	0.75	55	13	21	5.0	4.0	7	2	3		
TNH-M5.0x0.8-HT-PE-J	○	M5	0.80	60	16	25	5.5	4.5	7	2	3		
TNH-M5.5x0.9-HT-PE-J	○	M5.5	0.90	60	16	25	5.5	4.5	7	2	3		
TNH-M6.0x1.0-HT-PE-J	○	M6	1.00	62	19	28	6.0	4.5	7	2	3		
TNH-M7.0x1.0-HT-PE-J	○	M7	1.00	65	19	30	6.2	5.0	8	3	4		
TNH-M8.0x1.25-HT-PE-J	○	M8	1.25	70	22		6.2	5.0	8	3	4		
TNH-M10x1.5-HT-PE-J	○	M10	1.50	75	24		7.0	5.5	8	3	4		
TNH-M11x1.5-HT-PE-J	○	M11	1.50	80	25		8.0	6.0	9	3	4		
TNH-M12x1.75-HT-PE-J	○	M12	1.75	82	29		8.5	6.5	9	3	4		
TNH-M14x2.0-HT-PE-J	○	M14	2.00	88	30		10.5	8.0	11	3	4		
TNH-M15x2.0-HT-PE-J	○	M15	2.00	90	30		10.5	8.0	11	3	4		
TNH-M16x2.0-HT-PE-J	○	M16	2.00	95	32		12.5	10	13	3	4		
TNH-M18x2.5-HT-PE-J	○	M18	2.50	100	37		14.0	11	14	3	4		
TNH-M20x2.5-HT-PE-J	○	M20	2.50	105	37		15.0	12	15	3	4		
TNH-M22x2.5-HT-PE-J	○	M22	2.50	115	38		17.0	13	16	3	4		
TNH-M24x3.0-HT-PE-J	○	M24	3.00	120	45		19.0	15	18	3	4		

●标准库存 Standard inventory ○订单生产 Order production

JIS METRIC FINE HAND TAPS JIS公制细牙手用丝攻系列



- 适用被切削材料: 铸铁、青铜、铸铝、中低碳钢、模具钢。
- Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

型号 Model	库存 Stock	公制牙(MF)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	li	d	k	li				
TNH-M2.0x0.25-HT-BE-J	○	M2	0.25	42	7	15	3.0	2.5	5	2	3		
TNH-M2.3x0.25-HT-BE-J	○	M2.3	0.25	42	7	15	3.0	2.5	5	2	3		
TNH-M2.5x0.35-HT-BE-J	○	M2.5	0.35	44	8	16	3.0	2.5	5	2	3		
TNH-M2.6x0.35-HT-BE-J	○	M2.6	0.35	44	8	16	3.0	2.5	5	2	3		
TNH-M3.0x0.6-HT-BE-J	○	M3	0.60	46	11	18	4.0	3.2	6	2	3		
TNH-M3.0x0.35-HT-BE-J	○	M3	0.35	46	9.5	18	4.0	3.2	6	2	3		
TNH-M3.5x0.35-HT-BE-J	○	M3.5	0.35	48	9.5	20	4.0	3.2	6	2	3		
TNH-M4.0x0.75-HT-BE-J	○	M4	0.75	52	13	20	5.0	4.0	7	2	3		
TNH-M4.0x0.5-HT-BE-J	○	M4	0.50	52	13	20	5.0	4.0	7	2	3		
TNH-M4.5x0.5-HT-BE-J	○	M4.5	0.50	55	13	21	5.0	4.0	7	2	3		
TNH-M5.0x0.5-HT-BE-J	○	M5	0.50	55	13	25	5.5	4.5	7	2	3		
TNH-M5.0x0.75-HT-BE-J	○	M5	0.75	60	16	25	5.5	4.5	7	2	3		
TNH-M6.0x0.75-HT-BE-J	○	M6	0.75	62	19	28	6.0	4.5	7	2	3		
TNH-M6.0x0.50-HT-BE-J	○	M6	0.50	55	13	25	6.0	4.5	7	2	3		
TNH-M7.0x0.75-HT-BE-J	○	M7	0.75	65	19	30	6.2	5.0	8	3	4		
TNH-M7.0x0.5-HT-BE-J	○	M7	0.50	55	13	25	6.2	5.0	8	3	4		
TNH-M8.0x1.0-HT-BE-J	○	M8	1.00	70	22		6.2	5.0	8	3	4		
TNH-M8.0x0.75-HT-BE-J	○	M8	0.75	70	22		6.2	5.0	8	3	4		
TNH-M9.0x1.0-HT-BE-J	○	M9	1.00	72	22		7.0	5.5	8	3	4		
TNH-M10x1.25-HT-BE-J	○	M10	1.25	75	24		7.0	5.5	8	3	4		
TNH-M10x1.0-HT-BE-J	○	M10	1.00	75	24		7.0	5.5	8	3	4		
TNH-M10x0.75-HT-BE-J	○	M10	0.75	75	22		7.0	5.5	8	3	4		
TNH-M10x0.5-HT-BE-J	○	M10	0.50	55	13		7.0	5.5	8	3	4		
TNH-M11x1.25-HT-BE-J	○	M11	1.25	80	25		8.0	6.0	9	3	4		
TNH-M11x1.0-HT-BE-J	○	M11	1.00	80	25		8.0	6.0	9	3	4		
TNH-M11x0.75-HT-BE-J	○	M11	0.75	75	22		8.0	6.0	9	3	4		
TNH-M12x1.5-HT-BE-J	○	M12	1.50	82	29		8.5	6.5	9	3	4		
TNH-M12x1.25-HT-BE-J	○	M12	1.25	82	29		8.5	6.5	9	3	4		
TNH-M13x1.75-HT-BE-J	○	M13	1.75	85	29		9.5	7.0	10	3	4		
TNH-M13x1.5-HT-BE-J	○	M13	1.50	85	29		9.5	7.0	10	3	4		
TNH-M14x1.5-HT-BE-J	○	M14	1.50	88	30		10.5	8.0	11	3	4		
TNH-M14x1.25-HT-BE-J	○	M14	1.25	88	30		10.5	8.0	11	3	4		
TNH-M14x1.0-HT-BE-J	○	M14	1.00	88	30		10.5	8.0	11	3	4		
TNH-M15x1.5-HT-BE-J	○	M15	1.50	90	30		10.5	8.0	11	3	4		
TNH-M15x1.0-HT-BE-J	○	M15	1.00	90	30		10.5	8.0	11	3	4		
TNH-M16x1.5-HT-BE-J	○	M16	1.50	95	32		12.5	10	13	3	4		
TNH-M16x1.0-HT-BE-J	○	M16	1.00	95	32		12.5	10	13	3	4		
TNH-M17x1.5-HT-BE-J	○	M17	1.50	95	32		13.0	10	13	3	4		
TNH-M17x1.0-HT-BE-J	○	M17	1.00	95	32		13.0	10	13	3	4		
TNH-M18x2.0-HT-BE-J	○	M18	2.00	100	37		14.0	11	14	3	4		
TNH-M18x1.5-HT-BE-J	○	M18	1.50	100	37		14.0	11	14	3	4		
TNH-M18x1.0-HT-BE-J	○	M18	1.00	95	30		14.0	11	14	3	4		
TNH-M19x1.5-HT-BE-J	○	M19	1.50	105	37		14.0	11	14	3	4		
TNH-M19x1.0-HT-BE-J	○	M19	1.00	95	30		14.0	11	14	3	4		
TNH-M20x2.0-HT-BE-J	○	M20	2.00	105	37		15.0	12	15	3	4		
TNH-M20x1.5-HT-BE-J	○	M20	1.50	105	37		15.0	12	15	3	4		
TNH-M22x2.0-HT-BE-J	○	M22	2.00	115	38		17.0	13	16	3	4		
TNH-M22x1.5-HT-BE-J	○	M22	1.50	115	38		17.0	13	16	3	4		
TNH-M22x1.0-HT-BE-J	○	M22	1.00	95	30		17.0	13	16	3	4		
TNH-M23x1.5-HT-BE-J	○	M23	1.50	115	38		18.0	14	17	3	4		
TNH-M24x2.0-HT-BE-J	○	M24	2.00	120	45		19.0	15	18	3	4		
TNH-M24x1.5-HT-BE-J	○	M24	1.50	120	45		19.0	15	18	3	4		

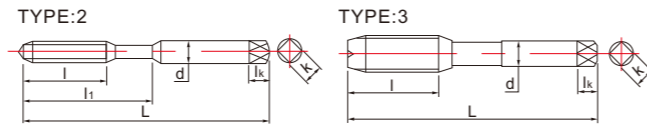
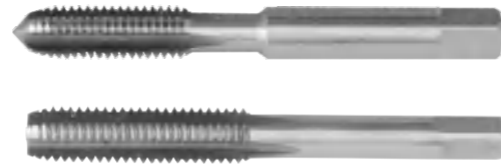
●标准库存 Standard inventory ○订单生产 Order production

JIS UNC COARSE HAND TAPS JIS 美制粗牙手用丝攻系列



● 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。

● Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

型号 Model	库存 Stock	美制牙(UNC)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Basic Major Dia.	L	l	li	d	k	li				
TNH-No.2-56UNC-HT-PE-J	○	No.2-56UNC	2.184	42	9.5	15	3.0	2.5	5	2	3		
TNH-No.3-48UNC-HT-PE-J	○	No.3-48UNC	2.515	44	9.5	16	3.0	2.5	5	2	3		
TNH-No.4-40UNC-HT-PE-J	○	No.4-40UNC	2.845	44	9.5	16	3.0	2.5	5	2	3		
TNH-No.5-40UNC-HT-PE-J	○	No.5-40UNC	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-No.6-32UNC-HT-PE-J	○	No.6-32UNC	3.505	48	13	20	4.0	3.2	6	2	3		
TNH-No.8-32UNC-HT-PE-J	○	No.8-32UNC	4.166	52	13	21	5.0	4.0	7	2	3		
TNH-No.10-24LUNC-HT-PE-J	○	No.10-24LUNC	4.826	60	16	25	5.5	4.5	7	2	3		
TNH-No.12-241JUNC-HT-PE-J	○	No.12-241JUNC	5.486	60	16	26	5.5	4.5	7	2	3		
TNH-1/4-20UNC-HT-PE-J	○	1/4-20UNC	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16-18UNC-HT-PE-J	○	5/16-18UNC	7.938	70	22		6.1	5.0	8	3	4		
TNH-3/8-16UNC-HT-PE-J	○	3/8-16UNC	9.525	75	24		7.0	5.5	8	3	4		
TNH-7/16-14UNC-HT-PE-J	○	7/16-14UNC	11.112	80	25		8.0	6.0	9	3	4		
TNH-1/2-13UNC-HT-PE-J	○	1/2-13UNC	12.700	85	29		9.0	7.0	10	3	4		
TNH-9/16-12UNC-HT-PE-J	○	9/16-12UNC	14.288	90	30		10.5	8.0	11	3	4		
TNH-5/8-11UNC-HT-PE-J	○	5/8-11UNC	15.875	95	32		12.0	9.0	12	3	4		
TNH-3/4-10UNC-HT-PE-J	○	3/4-10UNC	19.050	105	37		14.0	11	14	3	4		
TNH-7/8-9UNC-HT-PE-J	○	7/8-9UNC	22.225	115	38		17.0	13	16	3	4		
TNH-1-8UNC-HT-PE-J	○	1-8UNC	25.400	125	45		20.0	15	18	3	4		
TNH-11/8-7UNC-HT-PE-J	○	11/8-7UNC	28.575	135	48		22.0	17	20	3	4		
TNH-11/4-7UNC-HT-PE-J	○	11/4-7UNC	31.750	145	51		24.0	19	22	3	4		
TNH-13/8-6UNC-HT-PE-J	○	13/8-6UNC	34.925	155	57		26.0	21	24	3	4		
TNH-11/2-6UNC-HT-PE-J	○	11/2-6UNC	38.100	160	60		30.0	23	26	3	4		
TNH-13/4-5UNC-HT-PE-J	○	13/4-5UNC	44.450	175	67		35.0	26	30	3	4		
TNH-2-41/2UNC-HT-PE-J	○	2-41/2UNC	50.800	195	70		40.0	32	35	3	4		

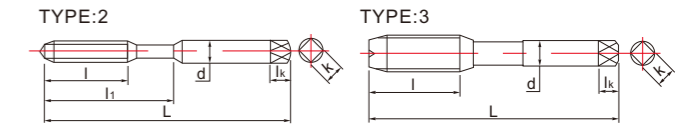
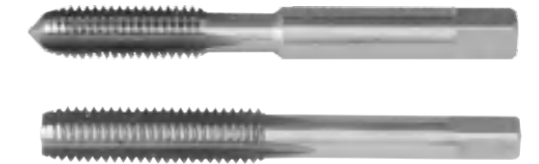
● 标准库存 Standard inventory ○ 订单生产 Order production

JIS UNF FINE HAND TAPS JIS 美制细牙手用丝攻系列



● 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。

● Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.

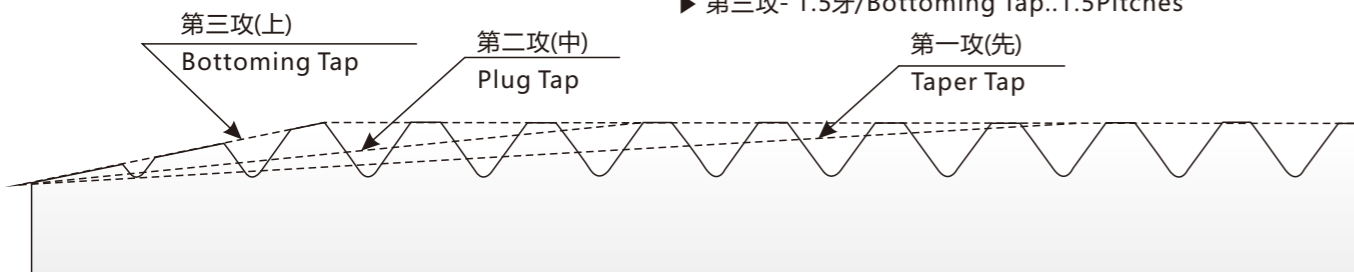


通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

型号 Model	库存 Stock	美制牙(UNC)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Basic Major Dia.	L	l	li	d	k	li				
TNH-No.2-64UNF-HT-BE-J	○	No.2-64UNF	2.184	42	9.5	15	3.0	2.5	5	2	3		
TNH-No.3-56UNF-HT-BE-J	○	No.3-56UNF	2.515	44	9.5	16	3.0	2.5	5	2	3		
TNH-No.4-48UNF-HT-BE-J	○	No.4-48UNF	2.845	44	9.5	16	3.0	2.5	5	2	3		
TNH-No.5-44UNF-HT-BE-J	○	No.5-44UNF	3.175	46	11	18	4.0	3.2	6	2	3		
TNH-No.6-40UNF-HT-BE-J	○	No.6-40UNF	3.505	48	13	20	4.0	3.2	6	2	3		
TNH-No.8-36UNF-HT-BE-J	○	No.8-36UNF	4.166	52	13	21	5.0	4.0	7	2	3		
TNH-No.10-32LJNF-HT-BE-J	○	No.10-32LJNF	4.826	60	16	25	5.5	4.5	7	2	3		
TNH-No.12-28UNF-HT-BE-J	○	No.12-28UNF	5.486	60	16	26	5.5	4.5	7	2	3		
TNH-1/4-28UNF-HT-BE-J	○	1/4-28UNF	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-1/4-32UNEF-HT-BE-J	○	1/4-32UNEF	6.350	62	19	30	6.0	4.5	7	3	3		
TNH-5/16-24UNF-HT-BE-J	○	5/16-24UNF	7.938	70	22		6.1	5.0	8	3	4		
TNH-5/16-32UNEF-HT-BE-J	○	5/16-32UNEF	7.938	70	22		6.1	5.0	8	3	4		
TNH-3/8-24UNF-HT-BE-J	○	3/8-24UNF	9.525	75	24		7.0	5.5	8	3	4		
TNH-3/8-32UNEF-HT-BE-J	○	3/8-32UNEF	9.525	75	22		7.0	5.5	8	3	4		
TNH-7/16-20UNF-HT-BE-J	○	7/16-20UNF	11.112	80	25		8.0	6.0	9	3	4		
TNH-7/16-28JNEF-HT-BE-J	○	7/16-28JNEF	11.112	80	25		8.0	6.0	9	3	4		
TNH-1/2-20UN F-HT-BE-J	○	1/2-20UN F	12.700	85	29		9.0	7.0	10	3	4		
TNH-1/2-28UNEF-HT-BE-J	○	1/2-28UNEF	12.700	85	29		9.0	7.0	10	3	4		
TNH-9/16-18UNF-HT-BE-J	○	9/16-18UNF	14.288	90	30		10.5	8.0	11	3	4		
TNH-9/16-24UNEF-HT-BE-J	○	9/16-24UNEF	14.288	90	30		10.5	8.0	11	3	4		
TNH-5/8-18UNF-HT-BE-J	○	5/8-18UNF	15.875	95	32		12.0	9.0	12	3	4		
TNH-5/8-24UNEF-HT-BE-J	○	5/8-24UNEF	15.875	95	32		12.0	9.0	12	3	4		
TNH-3/4-16UNF-HT-BE-J	○	3/4-16UNF	19.050	105	37		14.0	11.0	14	3	4		

● 标准库存 Standard inventory ○ 订单生产 Order production

丝攻端面切削刃口部位说明:
Description of cutting edge of tapping end face cutting:



- ▶ 第一攻- 9牙/Taper Tap...9 Pitches
- ▶ 第二攻- 5牙/Plug Tap...5 pitches
- ▶ 第三攻- 1.5牙/Bottoming Tap..1.5Pitches

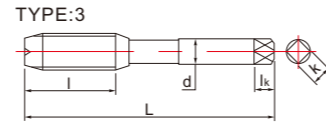
- ▶ Specially slow spiral design (特殊低螺旋角设计)
- ▶ TiAlN coating for good performance and long life (铝钛处理以保证寿命之能力)

- ▶ JIS standard (日标)
- ▶ Made of HSS-CQ steel (钴高速钢制造).
- ▶ Ideal for use on Casting Iron (专用硬化加工)

ISO 2284 PARALLEL PIPE TAPS ISO 2284直管螺纹直槽系列



- 适用于管内螺纹加工。
- 抗拉强度850N/MM2以下模具钢、碳钢、铜铝合金。
- Suitable for pipe internal thread machining.
- Tensile strength of 850N/MM2 or less die steel, carbon steel, Copper aluminum alloy.



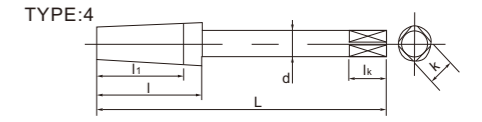
型号 Model	库存 Stock	英制平行管牙(BSPG)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l ₂	Type	Flutes
TNH-1/16-28BSPG-HT-I	○	1/16-28	7.723	52	14		5.6	4.5	7	3	4
TNH-1/8-28BSPG-HT-I	○	1/8-28	9.728	59	15		8.0	6.3	9	3	4
TNH-1/4-19BSPG-HT-I	○	1/4-19	13.157	67	19		10.0	8.0	11	3	4
TNH-3/8-19BSPG-HT-I	○	3/8-19	16.662	75	21		12.5	10.0	13	3	4
TNH-1/2-14BSPG-HT-I	○	1/2-14	20.955	87	26		16.0	12.5	16	3	4
TNH-3/4-14BSPG-HT-I	○	3/4-14	26.441	96	28		20.0	16.0	20	3	4
TNH-1-11BSPG-HT-I	○	1-11	33.249	109	33		25.0	20.0	24	3	4

●标准库存 Standard inventory ○订单生产 Order production

ISO 2284 TAPER PIPE TAPS ISO 2284锥管螺纹直槽系列



- 适用于管内螺纹加工。
- 抗拉强度850N/MM2以下模具钢、碳钢、铜铝合金。
- Suitable for pipe internal thread machining.
- Tensile strength of 850N/MM2 or less die steel, carbon steel, Copper aluminum alloy.



型号 Model	库存 Stock	英制斜度管牙(BSPT)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l ₂	Type	Flutes
TNH-1/16-28BSPT-HT-I	○	1/16-28	7.723	52	14	10.1	5.6	4.5	7	4	4
TNH-1/8-28BSPT-HT-I	○	1/8-28	9.728	59	15	10.1	8.0	6.3	9	4	4
TNH-1/4-19BSPT-HT-I	○	1/4-19	13.157	67	19	15.0	10.0	8.0	11	4	4
TNH-3/8-19BSPT-HT-I	○	3/8-19	16.662	75	21	15.4	12.5	10.0	13	4	4
TNH-1/2-14BSPT-HT-I	○	1/2-14	20.955	87	26	20.5	16.0	12.5	16	4	4
TNH-3/4-14BSPT-HT-I	○	3/4-14	26.441	96	28	21.8	20.0	16.0	20	4	4
TNH-1-11BSPT-HT-I	○	1-11	33.249	109	33	26.0	25.0	20.0	24	4	4

●标准库存 Standard inventory ○订单生产 Order production



型号 Model	库存 Stock	美制平行管牙(NPS)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l ₂	Type	Flutes
TNH-1/8-27NPS-HT-I	○	1/8-27	10.272	59	15		8.0	6.3	9	3	4
TNH-1/4-18NPS-HT-I	○	1/4-18	13.571	67	19		10.0	8.0	11	3	4
TNH-3/8-18NPS-HT-I	○	3/8-18	17.054	75	21		12.5	10.0	13	3	4
TNH-1/2-14NPS-HT-I	○	1/2-14	21.224	87	26		16.0	12.5	16	3	4
TNH-3/4-14NPS-HT-I	○	3/4-14	26.568	96	28		20.0	16.0	20	3	4
TNH-1-11/2NPS-HT-I	○	1-11/2	33.228	109	33		25.0	20.0	24	3	4
TNH-11/4-111/2NPS-HT-I	○	11/4-111/2	41.986	119	36		31.5	25.0	28	3	6
TNH-11/2-111/2NPS-HT-I	○	11/2-111/2	48.054	125	37		35.5	28.0	31	3	6

●标准库存 Standard inventory ○订单生产 Order production



型号 Model	库存 Stock	美制斜度管牙(NPT)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l ₂	Type	Flutes
TNH-1/8-27NPT-HT-I	○	1/8-27	10.272	59	15	7.9	8.0	6.3	9	4	4
TNH-1/4-18NPT-HT-I	○	1/4-18	13.571	67	19	11.9	10.0	8.0	11	4	4
TNH-3/8-18NPT-HT-I	○	3/8-18	17.054	75	21	11.5	12.5	10.0	13	4	4
TNH-1/2-14NPT-HT-I	○	1/2-14	21.224	87	26	14.7	16.0	12.5	16	4	4
TNH-3/4-14NPT-HT-I	○	3/4-14	26.568	96	28	14.4	20.0	16.0	20	4	4
TNH-1-11/2NPT-HT-I	○	1-11/2	33.228	109	33	17.2	25.0	20.0	24	4	4
TNH-11/4-111/2NPT-HT-I	○	11/4-111/2	41.986	119	36	17.4	31.5	25.0	28	4	6
TNH-11/2-111/2NPT-HT-I	○	11/2-111/2	48.054	125	37	17.8	35.5	28.0	31	4	6

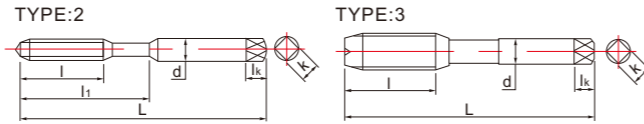
●标准库存 Standard inventory ○订单生产 Order production

JIS INCH COARSE HAND TAPS JIS 英制粗牙手用丝攻系列



● 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。

● Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

型号 Model	库存 Stock	英制牙(BSW)		尺寸 Dimensions(mm)								
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k	Type	Flutes	
TNH-1/8W40BSW-HT-PE-J	○	1/8W40	3.175	46	11	18	4.0	3.2	6	2	3	
TNH-5/32W32BSW-HT-PE-J	○	5/32W32	3.969	52	13	21	5.0	4.0	7	2	3	
TNH-3/16W24BSW-HT-PE-J	○	3/16W24	4.762	60	16	25	5.5	4.5	7	2	3	
TNH-7/32W24BSW-HT-PE-J	○	7/32W24	5.556	60	16	25	5.5	4.5	7	2	3	
TNH-1/4W20BSW-HT-PE-J	○	1/4W20	6.350	62	19	30	6.0	4.5	7	3	3	
TNH-5/16W18BSW-HT-PE-J	○	5/16W18	7.938	70	22	30	6.1	5.0	8	3	4	
TNH-3/8W16BSW-HT-PE-J	○	3/8W16	9.525	75	24	30	7.0	5.5	8	3	4	
TNH-7/16W14BSW-HT-PE-J	○	7/16W14	11.112	80	25	30	8.0	6.0	9	3	4	
TNH-1/2W12BSW-HT-PE-J	○	1/2W12	12.700	85	29	30	9.0	7.0	10	3	4	
TNH-9/16W12BSW-HT-PE-J	○	9/16W12	14.288	90	30	30	10.5	8.0	11	3	4	
TNH-5/8W11BSW-HT-PE-J	○	5/8W11	15.875	95	32	30	12.0	9.0	12	3	4	
TNH-3/4W10BSW-HT-PE-J	○	3/4W10	19.050	105	37	30	14.0	11	14	3	4	
TNH-7/8W9BSW-HT-PE-J	○	7/8W9	22.225	115	38	30	17.0	13	16	3	4	
TNH-1W8BSW-HT-PE-J	○	1W8	25.400	125	45	30	20.0	15	18	3	4	
TNH-11/8W7BSW-HT-PE-J	○	11/8W7	28.575	135	48	30	22.0	17	20	3	4	
TNH-11/4W7BSW-HT-PE-J	○	11/4W7	31.750	145	51	30	24.0	19	22	3	4	
TNH-13/8W6BSW-HT-PE-J	○	13/8W6	34.925	155	57	30	26.0	21	24	3	4	
TNH-11/2W6BSW-HT-PE-J	○	11/2W6	38.100	165	60	30	30.0	23	26	3	4	
TNH-15/8W5BSW-HT-PE-J	○	15/8W5	41.275	170	60	30	32.0	26	30	3	4	
TNH-13/4W5BSW-HT-PE-J	○	13/4W5	44.450	175	67	30	35.0	26	30	3	4	
TNH-17/8W41/2BSW-HT-PE-J	○	17/8W41/2	47.625	185	67	30	38.0	29	32	3	4	
TNH-2W41/2BSW-HT-PE-J	○	2W41/2	50.800	195	70	30	40.0	32	35	3	4	

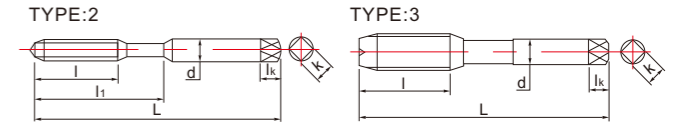
● 标准库存 Standard inventory ○ 订单生产 Order production

JIS INCH FINE HAND TAPS JIS 英制细牙手用丝攻系列



● 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。

● Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.



通/盲孔
加工皆适
Tong/blind holes
Processing is optimal

型号 Model	库存 Stock	英制牙(BSW)		尺寸 Dimensions(mm)								
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k	Type	Flutes	
TNH-3/16-32BSW-HT-BE-J	○	3/16-32	4.762	60	16	25	5.5	4.5	7	2	3	
TNH-7/32-28BSW-HT-BE-J	○	7/32-28	5.556	60	16	25	5.5	4.5	7	2	3	
TNH-1/4-28BSW-HT-BE-J	○	1/4-28	6.350	62	19	30	6.0	4.5	7	3	3	
TNH-5/16-22BSW-HT-BE-J	○	5/16-22	7.938	70	22	30	6.1	5.0	8	3	4	
TNH-3/8-20BSW-HT-BE-J	○	3/8-20	9.525	75	24	30	7.0	5.5	8	3	4	
TNH-7/16-18BSW-HT-BE-J	○	7/16-18	11.112	80	25	30	8.0	6.0	9	3	4	
TNH-1/2-16BSW-HT-BE-J	○	1/2-16	12.700	85	29	30	9.0	7.0	10	3	4	
TNH-9/16-16BSW-HT-BE-J	○	9/16-16	14.288	90	30	30	10.5	8.0	11	3	4	
TNH-5/8-14BSW-HT-BE-J	○	5/8-14	15.825	95	32	30	12.0	9.0	12	3	4	
TNH-3/4-12BSW-HT-BE-J	○	3/4-12	19.050	105	32	30	14.0	11.0	14	3	4	
TNH-7/8-11BSW-HT-BE-J	○	7/8-11	22.225	115	37	30	17.0	13.0	16	3	4	
TNH-1-10BSW-HT-BE-J	○	1-10	25.400	125	38	30	20.0	15.0	18	3	4	

● 标准库存 Standard inventory ○ 订单生产 Order production

管用丝攻组合方式 Use the combination of silk tap

新旧代号 The old and new code	用途 use	公螺纹 The male thread	母螺纹 Female thread
G=PF	机械结合 Mechanical combination	G=PF	G=PF
Rc=PT	极密性结合 Extremely dense bonding	Rc=PT	Rc=PT
Rp=PS	极密性结合 Extremely dense bonding	Rc=PT	Rp=PS

管螺纹的种类 Type of pipe threads

可分为英制与美制两大类，都用英寸，为推拔螺纹与平行螺纹的组合，如外螺纹、内螺纹都用推拔者或者平行者，对推拔外螺纹使用平行内螺纹者英制的螺纹角与惠氏螺纹系相同为55°，JIS定PT，PS，

PT等规格，在国际间普遍被采用。美制者，凡是首

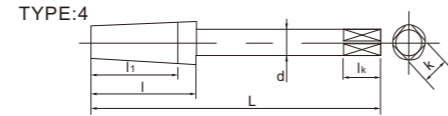
字为N者都是，其螺纹角与英美统一螺纹系相同为60° 这些美制者，将不被JIS或者ISO采用，以美制管螺纹的名称，为适合各种用途有多种在有关地方被使用。公尺制是西德逾1954年制定在DIN158里，其基准径及螺距为公尺制尺寸，但对一般还未普遍被使用。

In, its reference diameter and pitch are in meter size, but are not widely used in general.

JIS INCH TAPER SPIRAL TAPS JIS 英制锥管螺旋槽系列



- T801适用于极密性结合为目的内螺纹加工, T804适用于机械结合为目的内螺纹加工。
- 抗拉强度850N/MM²以下模具钢、碳钢、铜铝合金。
- T801 is suitable for the purpose of extremely tight combination of internal thread machining, T804 is suitable for internal thread machining for mechanical bonding purposes.
- Tensile strength of 850N/MM² or less die steel, carbon steel, Copper aluminum alloy.



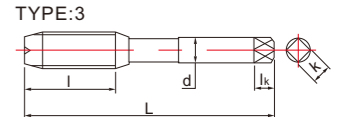
型号 Model	库存 Stock	英制斜度管牙(PT)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k	Type	Flutes
TNH-1/16-28PT-POT-J	○	1/16-28	7.723	55	19	13	8	6	9	4	3
TNH-1/8-28PT-POT-J	○	1/8-28	9.728	55	19	13	8	6	9	4	3
TNH-1/4-19PT-POT-J	○	1/4-19	13.157	62	28	21	11	9	12	4	3
TNH-3/8-19PT-POT-J	○	3/8-19	16.662	65	28	21	14	11	14	4	3
TNH-1/2-14PT-POT-J	○	1/2-14	20.955	80	35	25	18	14	17	4	4
TNH-3/4-14PT-POT-J	○	3/4-14	26.441	85	35	25	23	17	20	4	4
TNH-1-11PT-POT-J	○	1-11	33.249	95	45	32	26	21	24	4	4

●标准库存 Standard inventory ○订单生产 Order production

JIS SPIRAL FLUTED TAPS JIS 管螺纹螺旋槽系列



- T802适用于极密性结合为目的内螺纹加工, T803适用于机械结合为目的内螺纹加工。
- 抗拉强度850N/MM²以下模具钢、碳钢、铜铝合金。
- T802 is suitable for extremely tight combination for the purpose of internal thread machining, T803 is suitable for internal thread machining for mechanical bonding purposes.
- Tensile strength of 850N/MM² or less die steel, carbon steel, Copper aluminum alloy.



型号 Model	库存 Stock	英制平行管牙(PS)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k	Type	Flutes
TNH-1/8-28PS-SFT-J	○	1/8-28	9.728	55	19		8	6	9	3	3
TNH-1/4-19PS-SFT-J	○	1/4-19	13.157	62	28		11	9	12	3	3
TNH-3/8-19PS-SFT-J	○	3/8-19	16.662	65	28		14	11	14	3	3
TNH-1/2-14PS-SFT-J	○	1/2-14	20.955	80	35		18	14	17	3	4
TNH-3/4-14PS-SFT-J	○	3/4-14	26.441	85	35		23	17	20	3	4
TNH-1-11PS-SFT-J	○	1-11	33.249	95	45		26	21	24	3	4
TNH-11/4-11PS-SFT-J	○	11/4-11	41.910	105	45		32	26	30	3	4

●标准库存 Standard inventory ○订单生产 Order production



型号 Model	库存 Stock	美制斜度管牙(NPT)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k	Type	Flutes
TNH-1/16-27NPT-POT-J	○	1/16-27	7.770	54	17	12.00	8	6	9	4	3
TNH-1/8-27NPT-POT-J	○	1/8-27	10.117	55	19	12.05	8	6	9	4	3
TNH-1/4-18NPT-POT-J	○	1/4-18	13.426	62	28	17.45	11	9	12	4	3
TNH-3/8-18NPT-POT-J	○	3/8-18	16.866	65	28	17.65	14	11	14	4	3
TNH-1/2-14NPT-POT-J	○	1/2-14	20.980	80	35	22.85	18	14	17	4	4
TNH-3/4-14NPT-POT-J	○	3/4-14	26.325	85	35	22.95	23	17	20	4	4
TNH-1-11/2NPT-POT-J	○	1-11/2	32.934	95	45	27.40	26	21	24	4	4

●标准库存 Standard inventory ○订单生产 Order production



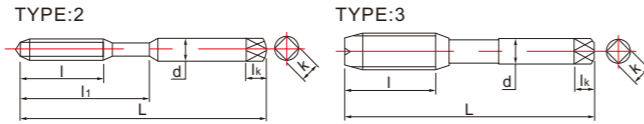
型号 Model	库存 Stock	美制平行管牙(NPT)		尺寸 Dimensions(mm)							
		Size	Basic Major Dia.	L	l	l ₁	d	k	l _k	Type	Flutes
TNH-1/8-28NPT-SFT-J	○	1/8-28	9.728	55	19		8	6	9	3	3
TNH-1/4-19NPT-SFT-J	○	1/4-19	13.157	62	28		11	9	12	3	3
TNH-3/8-19NPT-SFT-J	○	3/8-19	16.662	65	28		14	11	14	3	3
TNH-1/2-14NPT-SFT-J	○	1/2-14	20.955	80	35		18	14	17	3	4
TNH-3/4-14NPT-SFT-J	○	3/4-14	26.441	85	35		23	17	20	3	4
TNH-1-11NPT-SFT-J	○	1-11	33.249	95	45		26	21	24	3	4
TNH-11/4-11NPT-SFT-J	○	11/4-11	41.910	105	45		32	26	30	3	4

●标准库存 Standard inventory ○订单生产 Order production

JIS METRIC LONG SPIRAL TAPS JIS公制加长螺旋槽系列



- 适用于深孔螺纹加工。
- Suitable for deep hole thread machining.



● L=100mm

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M3x0.5-SFT-L100-J	○	M3x0.5	11	4.0	3.2	6	3
TNH-M4x0.7-SFT-L100-J	○	M4x0.7	13	5.0	4.0	7	3
TNH-M5x0.8-SFT-L100-J	○	M5x0.8	16	5.5	4.5	7	3
TNH-M6x1-SFT-L100-J	○	M6x1	19	6.0	4.5	7	3
TNH-M8x1.25-SFT-L100-J	○	M8x1.25	22	6.2	5.0	8	3
TNH-M10x1.5-SFT-L100-J	○	M10x1.5	24	7.0	5.5	8	3

● 标准库存 Standard inventory ○ 订单生产 Order production

● L=150mm

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M3x0.5-SFT-L150-J	○	M3x0.5	11	4.0	3.2	6	3
TNH-M4x0.7-SFT-L150-J	○	M4x0.7	13	5.0	4.0	7	3
TNH-M5x0.8-SFT-L150-J	○	M5x0.8	16	5.5	4.5	7	3
TNH-M6x1-SFT-L150-J	○	M6x1	19	6.0	4.5	7	3
TNH-M8x1.25-SFT-L150-J	○	M8x1.25	22	6.2	5.0	8	3
TNH-M10x1.5-SFT-L150-J	○	M10x1.5	24	7.0	5.5	8	3
TNH-M10x1.25-SFT-L150-J	○	M10x1.25	24	7.0	5.5	8	3
TNH-M12x1.75-SFT-L150-J	○	M12x1.75	29	8.5	6.5	9	3
TNH-M12x1.5-SFT-L150-J	○	M12x1.5	29	8.5	6.5	9	3
TNH-M12x1.25-SFT-L150-J	○	M12x1.25	29	8.5	6.5	9	3
TNH-M14x2-SFT-L150-J	○	M14x2	30	10.5	8.0	11	3

● 标准库存 Standard inventory ○ 订单生产 Order production

● L=200mm

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M8x1.25-SFT-L200-J	○	M8x1.25	22	6.2	5.0	5.0	3
TNH-M10x1.5-SFT-L200-J	○	M10x1.5	24	7.0	5.5	5.5	3
TNH-M10x1.25-SFT-L200-J	○	M10x1.25	24	7.0	5.5	5.5	3
TNH-M12x1.75-SFT-L200-J	○	M12x1.75	29	8.5	6.5	6.5	3
TNH-M12x1.5-SFT-L200-J	○	M12x1.5	29	8.5	6.5	6.5	3
TNH-M12x1.25-SFT-L200-J	○	M12x1.25	29	8.5	6.5	6.5	3
TNH-M14x2-SFT-L200-J	○	M14x2	30	10.5	8.0	8.0	3
TNH-M14x1.5-SFT-L200-J	○	M14x1.5	30	10.5	8.0	8.0	3
TNH-M16x2-SFT-L200-J	○	M16x2	32	12.5	10.0	10.0	3

● 标准库存 Standard inventory ○ 订单生产 Order production

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M10x1.25-SFT-L100-J	○	M10x1.25	24	7.0	5.5	8	3
TNH-M12x1.75-SFT-L100-J	○	M12x1.75	29	8.5	6.5	9	3
TNH-M12x1.5-SFT-L100-J	○	M12x1.5	29	8.5	6.5	9	3
TNH-M12x1.25-SFT-L100-J	○	M12x1.25	29	8.5	6.5	9	3
TNH-M14x2-SFT-L100-J	○	M14x2	30	10.5	8.0	11	3
TNH-M14x1.5-SFT-L100-J	○	M14x1.5	30	10.5	8.0	11	3

● 标准库存 Standard inventory ○ 订单生产 Order production

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M14x1.5-SFT-L150-J	○	M14x1.5	30	10.5	8	11	3
TNH-M16x2-SFT-L150-J	○	M16x2	32	12.5	10	13	3
TNH-M16x1.5-SFT-L150-J	○	M16x1.5	32	12.5	10	13	3
TNH-M18x2.5-SFT-L150-J	○	M18x2.5	37	14.0	11	14	4
TNH-M18x1.5-SFT-L150-J	○	M18x1.5	37	14.0	11	14	4
TNH-M20x2.5-SFT-L150-J	○	M20x2.5	37	15.0	12	15	4
TNH-M20x1.5-SFT-L150-J	○	M20x1.5	37	15.0	12	15	4
TNH-M22x2.5-SFT-L150-J	○	M22x2.5	38	17.0	13	16	4
TNH-M22x1.5-SFT-L150-J	○	M22x1.5	38	17.0	13	16	4
TNH-M24x3-SFT-L150-J	○	M24x3	45	19.0	15	18	4
TNH-M24x1.5-SFT-L150-J	○	M24x1.5	45	19.0	15	18	4

● 标准库存 Standard inventory ○ 订单生产 Order production

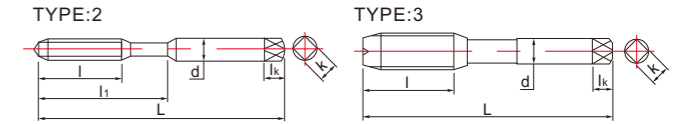
型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M16x1.5-SFT-L200-J	○	M16x1.5	32	12.5	10	13	3
TNH-M18x2.5-SFT-L200-J	○	M18x2.5	37	14.0	11	14	4
TNH-M18x1.5-SFT-L200-J	○	M18x1.5	37	14.0	11	14	4
TNH-M20x2.5-SFT-L200-J	○	M20x2.5	37	15.0	12	15	4
TNH-M20x1.5-SFT-L200-J	○	M20x1.5	37	15.0	12	15	4
TNH-M22x2.5-SFT-L200-J	○	M22x2.5	38	17.0	13	16	4
TNH-M22x1.5-SFT-L200-J	○	M22x1.5	38	17.0	13	16	4
TNH-M24x3-SFT-L200-J	○	M24x3	45	19.0	15	18	4
TNH-M24x1.5-SFT-L200-J	○	M24x1.5	45	19.0	15	18	4

● 标准库存 Standard inventory ○ 订单生产 Order production

JIS METRIC LONG GUN TAPS JIS公制加长先端系列



- 适用于深孔螺纹加工。
- Suitable for deep hole thread machining.



● L=100mm

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M3x0.5-POT-L100-J	○	M3x0.5	11	4.0	3.2	6	3
TNH-M4x0.7-POT-L100-J	○	M4x0.7	13	5.0	4.0	7	3
TNH-M5x0.8-POT-L100-J	○	M5x0.8	16	5.5	4.5	7	3
TNH-M6x1-POT-L100-J	○	M6x1	19	6.0	4.5	7	3
TNH-M8x1.25-POT-L100-J	○	M8x1.25	22	6.2	5.0	8	3
TNH-M10x1.5-POT-L100-J	○	M10x1.5	24	7.0	5.5	8	3

● 标准库存 Standard inventory ○ 订单生产 Order production

● L=150mm

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M3x0.5-POT-L150-J	○	M3x0.5	11	4.0	3.2	6	3
TNH-M4x0.7-POT-L150-J	○	M4x0.7	13	5.0	4.0	7	3
TNH-M5x0.8-POT-L150-J	○	M5x0.8	16	5.5	4.5	7	3
TNH-M6x1-POT-L150-J	○	M6x1	19	6.0	4.5	7	3
TNH-M8x1.25-POT-L150-J	○	M8x1.25	22	6.2	5.0	8	3
TNH-M10x1.5-POT-L150-J	○	M10x1.5	24	7.0	5.5	8	3
TNH-M10x1.25-POT-L150-J	○	M10x1.25	24	7.0	5.5	8	3
TNH-M12x1.75-POT-L150-J	○	M12x1.75	29	8.5	6.5	9	3
TNH-M12x1.5-POT-L150-J	○	M12x1.5	29	8.5	6.5	9	3
TNH-M12x1.25-POT-L150-J	○	M12x1.25	29	8.5	6.5	9	3
TNH-M14x2-POT-L150-J	○	M14x2	30	10.5	8.0	11	3

● 标准库存 Standard inventory ○ 订单生产 Order production

● L=200mm

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M8x1.25-POT-L200-J	○	M8x1.25	22	6.2	5.0	5.0	3
TNH-M10x1.5-POT-L200-J	○	M10x1.5	24	7.0	5.5	5.5	3
TNH-M10x1.25-POT-L200-J	○	M10x1.25	24	7.0	5.5	5.5	3
TNH-M12x1.75-POT-L200-J	○	M12x1.75	29	8.5	6.5	6.5	3
TNH-M12x1.5-POT-L200-J	○	M12x1.5	29	8.5	6.5	6.5	3
TNH-M12x1.25-POT-L200-J	○	M12x1.25	29	8.5	6.5	6.5	3
TNH-M14x2-POT-L200-J	○	M14x2	30	10.5	8.0	8.0	3
TNH-M14x1.5-POT-L200-J	○	M14x1.5	30	10.5	8.0	8.0	3
TNH-M16x2-POT-L200-J	○	M16x2	32	12.5	10.0	10.0	3

● 标准库存 Standard inventory ○ 订单生产 Order production

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M10x1.25-POT-L100-J	○	M10x1.25	24	7.0	5.5	8	3
TNH-M12x1.75-POT-L100-J	○	M12x1.75	29	8.5	6.5	9	3
TNH-M12x1.5-POT-L100-J	○	M12x1.5	29	8.5	6.5	9	3
TNH-M12x1.25-POT-L100-J	○	M12x1.25	29	8.5	6.5	9	3
TNH-M14x2-POT-L100-J	○	M14x2	30	10.5	8.0	11	3
TNH-M14x1.5-POT-L100-J	○	M14x1.5	30	10.5	8.0	11	3

● 标准库存 Standard inventory ○ 订单生产 Order production

型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M14x1.5-POT-L150-J	○	M14x1.5	30	10.5	8	11	3
TNH-M16x2-POT-L150-J	○	M16x2	32	12.5	10	13	3
TNH-M16x1.5-POT-L150-J	○	M16x1.5	32	12.5	10	13	3
TNH-M18x2.5-POT-L150-J	○	M18x2.5	37	14.0	11	14	4
TNH-M18x1.5-POT-L150-J	○	M18x1.5	37	14.0	11	14	4
TNH-M20x2.5-POT-L150-J	○	M20x2.5	37	15.0	12	15	4
TNH-M20x1.5-POT-L150-J	○	M20x1.5	37	15.0	12	15	4
TNH-M22x2.5-POT-L150-J	○	M22x2.5	38	17.0	13	16	4
TNH-M22x1.5-POT-L150-J	○	M22x1.5	38	17.0	13	16	4
TNH-M24x3-POT-L150-J	○	M24x3	45	19.0	15	18	4
TNH-M24x1.5-POT-L150-J	○	M24x1.5	45	19.0	15	18	4

● 标准库存 Standard inventory ○ 订单生产 Order production

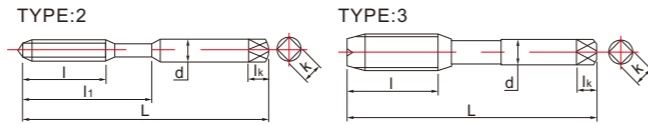
型号 Model	库存 Stock	公制牙(M)	l	d	k	lk	Flutes
TNH-M16x1.5-POT-L200-J	○	M16x1.5	32	12.5	10	13	3
TNH-M18x2.5-POT-L200-J	○	M18x2.5	37	14.0	11	14	4
TNH-M18x1.5-POT-L200-J	○	M18x1.5	37	14.0	11	14	4
TNH-M20x2.5-POT-L200-J	○	M20x2.5	37	15.0	12	15	4
TNH-M20x1.5-POT-L200-J	○	M20x1.5	37	15.0	12	15	4
TNH-M22x2.5-POT-L200-J	○	M22x2.5	38	17.0	13	16	4
TNH-M22x1.5-POT-L200-J	○	M22x1.5	38	17.0	13	16	4
TNH-M24x3-POT-L200-J	○	M24x3	45	19.0	15	18	4
TNH-M24x1.5-POT-L200-J	○	M24x1.5	45	19.0	15	18	4

● 标准库存 Standard inventory ○ 订单生产 Order production

DIN 371/376 SPIRAL TAPS DIN 371/376公制螺旋槽系列



- 抗拉强度600-900N/MM²的高碳钢镍基合金、合金工具、青铜、铸铁等。
- 抗拉强度750N/MM²以下中低碳钢、铜、铝、镁合金。
- High carbon steel nickel base with tensile strength of 600-900N/MM² Alloy, alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum, magnesium alloy.



通/盲孔
Tong/blind holes
加工皆适
Processing is optimal

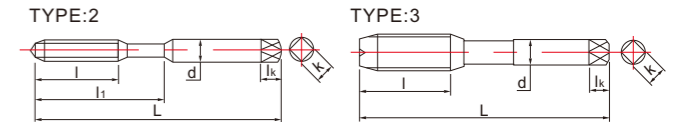
型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l _k				
TNH-M3.0x0.5-SFT-D	○	M3	0.50	56	11	18	3.5	2.7	6.0	2	3		
TNH-M3.5x0.6-SFT-D	○	M3.5	0.60	56	13	20	4.0	3.0	6.0	2	3		
TNH-M4.0x0.7-SFT-D	○	M4	0.70	63	13	21	4.5	3.4	6.0	2	3		
TNH-M5.0x0.8-SFT-D	○	M5	0.80	70	16	25	6.0	4.9	8.0	2	3		
TNH-M6.0x1.0-SFT-D	○	M6	1.00	80	19	30	6.0	4.9	8.0	2	3		
TNH-M8.0x1.25-SFT-D	○	M8	1.25	90	22	35	8.0	6.2	9.0	3	3		
TNH-M10x1.5-SFT-D	○	M10	1.50	100	24	39	10	8.0	11.0	3	3		
TNH-M12x1.75-SFT-D	○	M12	1.75	110	29		9.0	7.0	10.0	3	3		
TNH-M14x2.0-SFT-D	○	M14	2.00	110	30		11	9.0	12.0	3	4		
TNH-M16x2.0-SFT-D	○	M16	2.00	110	32		12	9.0	12.0	3	4		
TNH-M18x2.5-SFT-D	○	M18	2.50	125	34		14	11.0	14.0	3	4		
TNH-M20x2.5-SFT-D	○	M20	2.50	140	34		16	12.0	15.0	3	4		
TNH-M22x2.5-SFT-D	○	M22	2.50	140	34		18	14.5	17.0	3	4		
TNH-M24x3.0-SFT-D	○	M24	3.00	160	38		18	14.5	17.0	3	4		

● 标准库存 Standard inventory ○ 订单生产 Order production

DIN 371/376 GUN TAPS DIN 371/376公制先端系列



- 抗拉强度600-900N/MM²的高碳钢镍基合金、合金工具、青铜、铸铁等。
- 抗拉强度750N/MM²以下中低碳钢、铜、铝、镁合金。
- High carbon steel nickel base with tensile strength of 600-900N/MM² Alloy, alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM², copper, Aluminum, magnesium alloy.



通孔加工
Hole processing

型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)								Type	Flutes
		Size	Pitch	L	l	l ₁	d	k	l _k				
TNH-M3.0x0.5-POT-D	○	M3	0.50	56	11	18	3.5	2.7	6.0	2	3		
TNH-M3.5x0.6-POT-D	○	M3.5	0.60	56	13	20	4.0	3.0	6.0	2	3		
TNH-M4.0x0.7-POT-D	○	M4	0.70	63	13	21	4.5	3.4	6.0	2	3		
TNH-M5.0x0.8-POT-D	○	M5	0.80	70	16	25	6.0	4.9	8.0	2	3		
TNH-M6.0x1.0-POT-D	○	M6	1.00	80	19	30	6.0	4.9	8.0	2	3		
TNH-M8.0x1.25-POT-D	○	M8	1.25	90	22	35	8.0	6.2	9.0	3	3		
TNH-M10x1.5-POT-D	○	M10	1.50	100	24	39	10	8.0	11.0	3	3		
TNH-M12x1.75-POT-D	○	M12	1.75	110	29		9.0	7.0	10.0	3	3		
TNH-M14x2.0-POT-D	○	M14	2.00	110	30		11	9.0	12.0	3	4		
TNH-M16x2.0-POT-D	○	M16	2.00	110	32		12	9.0	12.0	3	4		
TNH-M18x2.5-POT-D	○	M18	2.50	125	34		14	11.0	14.0	3	4		
TNH-M20x2.5-POT-D	○	M20	2.50	140	34		16	12.0	15.0	3	4		
TNH-M22x2.5-POT-D	○	M22	2.50	140	34		18	14.5	17.0	3	4		
TNH-M24x3.0-POT-D	○	M24	3.00	160	38		18	14.5	17.0	3	4		

● 标准库存 Standard inventory ○ 订单生产 Order production

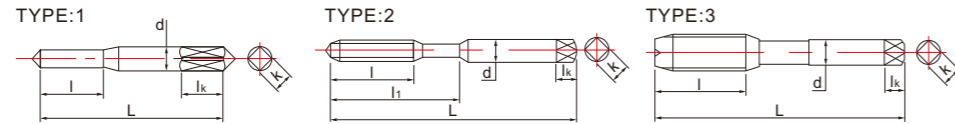
JIS CARBIDE STRAIGHT FLUTED TAPS JIS日标合金直槽丝攻系列



- 用于普通铸铁, 强韧性铸铁, 热硬化性树脂黄铜铸件, 加工精度高, 适合大批量加工
- Suitable for high production with high precision in automatic machines, It is ideal for tapping materials such as ordinary cast iron, ductile cast iron, thermosetting plastics and brass castings.



通孔加工
Hole processing



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						价格 Price ¥	重量 Weight g
		Size	Pitch	L	l	d	k	lk	Type		
TNC-M0.8X0.2-OTT-JIS	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	112.00	4
TNC-M0.9X0.225-OTT-JIS	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	104.00	4
TNC-M1.0X0.25-OTT-JIS	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	92.00	4
TNC-M1.2X0.25-OTT-JIS	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	88.00	4
TNC-M1.4X0.3-OTT-JIS	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	80.00	4
TNC-M1.6X0.35-OTT-JIS	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	78.00	4
TNC-M2.0X0.4-OTT-JIS	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	78.00	4
TNC-M2.5X0.45-OTT-JIS	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	78.00	5
TNC-M3.0X0.5-OTT-JIS	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	80.00	7
TNC-M3.5X0.6-OTT-JIS	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	86.00	10
TNC-M4.0X0.7-OTT-JIS	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	88.00	13
TNC-M5X0.8-OTT-JIS	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	118.00	18
TNC-M6X1.0-OTT-JIS	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	150.00	21
TNC-M8X1.25-OTT-JIS	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	254.00	30
TNC-M8X1.0-OTT-JIS	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	254.00	30
TNC-M10X1.5-OTT-JIS	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	300.00	43
TNC-M10X1.25-OTT-JIS	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	300.00	43
TNC-M10X1.0-OTT-JIS	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	300.00	43
TNC-M12X1.75-OTT-JIS	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	386.00	68
TNC-M12X1.5-OTT-JIS	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	386.00	68
TNC-M12X1.25-OTT-JIS	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	386.00	68
TNC-M12X1.0-OTT-JIS	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	386.00	68
TNC-M14X2.0-OTT-JIS	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	510.00	72
TNC-M14X1.5-OTT-JIS	○	M14	1.5	88	30.0	11.2	9.0	12.0	3	510.00	72
TNC-M14X1.25-OTT-JIS	○	M14	1.25	88	25.0	11.2	9.0	12.0	3	510.00	72
TNC-M14X1.0-OTT-JIS	○	M14	1.0	88	20.0	11.2	9.0	12.0	3	510.00	72
TNC-M16X2.0-OTT-JIS	○	M16	2.0	95	32.0	12.5	10.0	13.0	3	770.00	102
TNC-M16X1.5-OTT-JIS	○	M16	1.5	95	28.0	12.5	10.0	13.0	3	770.00	102
TNC-M16X1.0-OTT-JIS	○	M16	1.0	95	20.0	12.5	10.0	13.0	3	770.00	102

●标准库存 Standard inventory ○订单生产 Order production

JIS CARBIDE SPIRAL FLUTED TAPS JIS日标合金螺旋丝攻系列

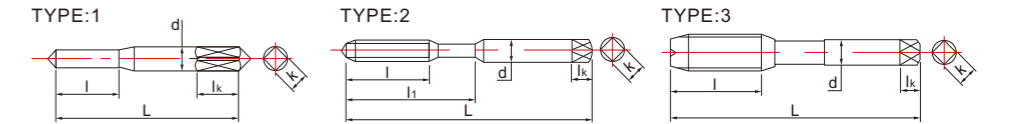


- 适用于铝合金, 镁合金, 铜合金, 热可塑性塑料的盲孔高精度加工。

- This tap is suitable for numerous operations with high precision in automatic machines. It is ideal for tapping materials such as aluminum alloys, magnesium alloys, copper alloys and thermoplastics.



通孔加工
Hole processing



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						价格 Price ¥	重量 Weight g
		Size	Pitch	L	l	d	k	lk	Type		
TNC-M0.8X0.2-SFT-JIS	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	118.00	4
TNC-M0.9X0.225-SFT-JIS	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	110.00	4
TNC-M1.0X0.25-SFT-JIS	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	88.00	4
TNC-M1.2X0.25-SFT-JIS	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	84.00	4
TNC-M1.4X0.3-SFT-JIS	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	84.00	4
TNC-M1.6X0.35-SFT-JIS	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	82.00	4
TNC-M2.0X0.4-SFT-JIS	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	82.00	4
TNC-M2.5X0.45-SFT-JIS	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	84.00	5
TNC-M3.0X0.5-SFT-JIS	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	90.00	7
TNC-M3.5X0.6-SFT-JIS	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	90.00	10
TNC-M4.0X0.7-SFT-JIS	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	122.00	13
TNC-M5X0.8-SFT-JIS	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	142.00	18
TNC-M6X1.0-SFT-JIS	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	154.00	21
TNC-M8X1.25-SFT-JIS	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	274.00	30
TNC-M8X1.0-SFT-JIS	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	274.00	30
TNC-M10X1.5-SFT-JIS	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	320.00	43
TNC-M10X1.25-SFT-JIS	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	320.00	43
TNC-M10X1.0-SFT-JIS	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	320.00	43
TNC-M12X1.75-SFT-JIS	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	410.00	68
TNC-M12X1.5-SFT-JIS	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	410.00	68
TNC-M12X1.25-SFT-JIS	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	410.00	68
TNC-M12X1.0-SFT-JIS	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	410.00	68
TNC-M14X2.0-SFT-JIS	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	536.00	72
TNC-M14X1.5-SFT-JIS	○	M14	1.5	88	30.0	11.2	9.0	12.0	3	536.00	72
TNC-M14X1.25-SFT-JIS	○	M14	1.25	88	25.0	11.2	9.0	12.0	3	536.00	72
TNC-M14X1.0-SFT-JIS	○	M14	1.0	88	20.0	11.2	9.0	12.0	3	536.00	72
TNC-M16X2.0-SFT-JIS	○	M16	2.0	95	32.0	12.5	10.0	13.0	3	800.00	102
TNC-M16X1.5-SFT-JIS	○	M16	1.5	95	28.0	12.5	10.0	13.0	3	800.00	102
TNC-M16X1.0-SFT-JIS	○	M16	1.0	95	20.0	12.5	10.0	13.0	3	800.00	102

●标准库存 Standard inventory ○订单生产 Order production

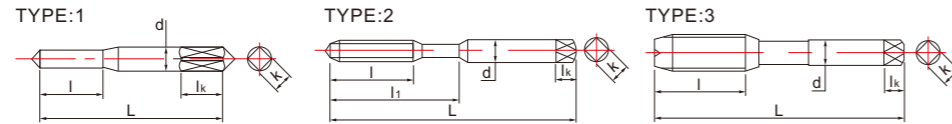
JIS CARBIDE GUN TAPS JIS日标合金先端丝攻系列



- 用于普通铸铁, 强韧性铸铁, 热硬化树脂黄铜铸件, 加工精度高, 适合大批量加工
- Suitable for high production with high precision in automatic machines, It is ideal for tapping materials such as ordinary cast iron, ductile cast iron, thermosetting plastics and brass castings.



通孔加工
Hole processing



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						价格 Price ¥	重量 Weight g
		Size	Pitch	L	l	d	k	lk	Type		
TNC-M0.8X0.2-POT-JIS	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	125.00	4
TNC-M0.9X0.225-POT-JIS	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	115.00	4
TNC-M1.0X0.25-POT-JIS	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	92.00	4
TNC-M1.2X0.25-POT-JIS	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	88.00	4
TNC-M1.4X0.3-POT-JIS	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	88.00	4
TNC-M1.6X0.35-POT-JIS	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	86.00	4
TNC-M2.0X0.4-POT-JIS	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	86.00	4
TNC-M2.5X0.45-POT-JIS	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	86.00	5
TNC-M3.0X0.5-POT-JIS	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	95.00	7
TNC-M3.5X0.6-POT-JIS	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	95.00	10
TNC-M4.0X0.7-POT-JIS	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	115.00	13
TNC-M5X0.8-POT-JIS	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	145.00	18
TNC-M6X1.0-POT-JIS	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	162.00	21
TNC-M8X1.25-POT-JIS	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	280.00	30
TNC-M8X1.0-POT-JIS	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	280.00	30
TNC-M10X1.5-POT-JIS	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	330.00	43
TNC-M10X1.25-POT-JIS	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	330.00	43
TNC-M10X1.0-POT-JIS	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	330.00	43
TNC-M12X1.75-POT-JIS	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	426.00	68
TNC-M12X1.5-POT-JIS	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	426.00	68
TNC-M12X1.25-POT-JIS	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	426.00	68
TNC-M12X1.0-POT-JIS	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	426.00	68
TNC-M14X2.0-POT-JIS	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	556.00	72
TNC-M14X1.5-POT-JIS	○	M14	1.5	88	30.0	11.2	9.0	12.0	3	556.00	72
TNC-M14X1.25-POT-JIS	○	M14	1.25	88	25.0	11.2	9.0	12.0	3	556.00	72
TNC-M14X1.0-POT-JIS	○	M14	1.0	88	20.0	11.2	9.0	12.0	3	556.00	72
TNC-M16X2.0-POT-JIS	○	M16	2.0	95	32.0	12.5	10.0	13.0	3	840.00	102
TNC-M16X1.5-POT-JIS	○	M16	1.5	95	28.0	12.5	10.0	13.0	3	840.00	102
TNC-M16X1.0-POT-JIS	○	M16	1.0	95	20.0	12.5	10.0	13.0	3	840.00	102

●标准库存 Standard inventory ○订单生产 Order production

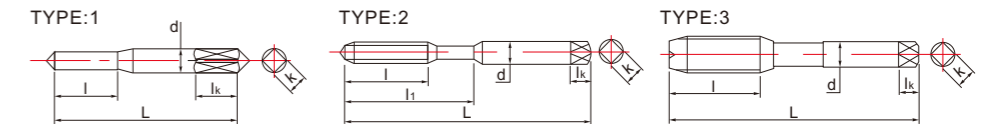
JIS CARBIDE FORMING TAPS JIS日标合金挤压丝攻系列



- 适用于铝合金, 镁合金, 铜合金的大量高精度的加工, 塑料变形无切屑, 能稳定连续加工。
- Suitable for high production with high precision in automatic machines, this tap is ideal for tapping materials such as aluminum alloys, magnesium alloys and copper alloys, stable and continuous operation is possible because no chips are generated during deformation



通孔加工
Hole processing



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						价格 Price ¥	重量 Weight g
		Size	Pitch	L	l	d	k	lk	Type		
TNC-M0.8X0.2-NRT-JIS	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	128.00	4
TNC-M0.9X0.225-NRT-JIS	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	118.00	4
TNC-M1.0X0.25-NRT-JIS	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	92.00	4
TNC-M1.2X0.25-NRT-JIS	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	88.00	4
TNC-M1.4X0.3-NRT-JIS	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	88.00	4
TNC-M1.6X0.35-NRT-JIS	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	86.00	4
TNC-M2.0X0.4-NRT-JIS	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	86.00	4
TNC-M2.5X0.45-NRT-JIS	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	86.00	5
TNC-M3.0X0.5-NRT-JIS	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	95.00	7
TNC-M3.5X0.6-NRT-JIS	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	95.00	10
TNC-M4.0X0.7-NRT-JIS	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	125.00	13
TNC-M5X0.8-NRT-JIS	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	150.00	18
TNC-M6X1.0-NRT-JIS	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	162.00	21
TNC-M8X1.25-NRT-JIS	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	280.00	30
TNC-M8X1.0-NRT-JIS	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	280.00	30
TNC-M10X1.5-NRT-JIS	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	330.00	43
TNC-M10X1.25-NRT-JIS	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	330.00	43
TNC-M10X1.0-NRT-JIS	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	330.00	43
TNC-M12X1.75-NRT-JIS	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	426.00	68
TNC-M12X1.5-NRT-JIS	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	426.00	68
TNC-M12X1.25-NRT-JIS	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	426.00	68
TNC-M12X1.0-NRT-JIS	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	426.00	68
TNC-M14X2.0-NRT-JIS	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	556.00	72
TNC-M14X1.5-NRT-JIS	○	M14	1.5	88	30.0	11.2	9.0	12.0	3	556.00	72
TNC-M14X1.25-NRT-JIS	○	M14	1.25	88	25.0	11.2	9.0	12.0	3	556.00	72
TNC-M14X1.0-NRT-JIS	○	M14	1.0	88	20.0	11.2	9.0	12.0	3	556.00	72
TNC-M16X2.0-NRT-JIS	○	M16	2.0	95	32.0	12.5	10.0	13.0	3	840.00	102
TNC-M16X1.5-NRT-JIS	○	M16	1.5	95	28.0	12.5	10.0	13.0	3	840.00	102
TNC-M16X1.0-NRT-JIS	○	M16	1.0	95	20.0	12.5	10.0	13.0	3	840.00	102

●标准库存 Standard inventory ○订单生产 Order production

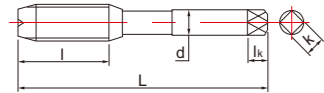
JIS PIPE THREAD CARBIDE TAPS JIS管螺纹合金丝攻系列



- T802适用于极密性结合为目的内螺纹加工, T803适用于机械结合为目的内螺纹加工。
- 抗拉强度850N/MM²以下模具钢、碳钢、铜铝合金。

- T802 is suitable for extremely tight combination for the purpose of internal thread machining, T803 is suitable for internal thread machining for mechanical bonding purposes.
- Tensile strength of 850N/MM² or less die steel, carbon steel, Copper aluminum alloy.

TYPE:3



型号 Model	库存 Stock	英制平行管牙(PS)		尺寸 Dimensions(mm)						价格 Price ¥	重量 Weight g
		Size	Basic Major Dia.	L	l	d	k	lk	Type		
TNC-1/8-28PS-OTT-J	○	1/8-28	9.728	55	19	8	6	9	3		
TNC-1/4-19PS-OTT-J	○	1/4-19	13.157	62	28	11	9	12	3		
TNC-3/8-19PS-OTT-J	○	3/8-19	16.662	65	28	14	11	14	3		
TNC-1/2-14PS-OTT-J	○	1/2-14	20.955	80	35	18	14	17	3		
TNC-3/4-14PS-OTT-J	○	3/4-14	26.441	85	35	23	17	20	3		
TNC-1-11PS-OTT-J	○	1-11	33.249	95	45	26	21	24	3		
TNC-11/4-11PS-OTT-J	○	11/4-11	41.910	105	45	32	26	30	3		

●标准库存 Standard inventory ○订单生产 Order production

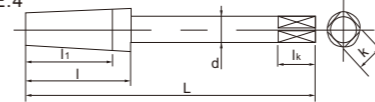
JIS PIPE THREAD CARBIDE SHORT SPIRAL TAPS JIS管螺纹合金短刃螺旋槽丝攻系列



- 适用被切削材料: 适用于以紧密结合为目的的推拔形内管螺纹加工。
- 抗拉强度850N/MM²以下碳钢、铜、铝、合金。

- Suitable for cutting materials: suitable for close combination Push-pull inner pipe thread processing.
- Tensile strength up to 850N/MM² Alloy.

TYPE:4



型号 Model	库存 Stock	英制平行管牙(PS)		尺寸 Dimensions(mm)							Type	Flutes
		Size	Basic Major Dia.	L	l	l1	d	k	lk			
TNC-1/16-28PS-SFT-L-J	○	1/16-28	7.723	54	14.0	10.1	8.0	6.0	9.0	4	4	
TNC-1/8-28PS-SFT-L-J	○	1/8-28	9.728	55	16.5	10.5	8.0	6.0	9.0	4	4	
TNC-1/4-19PS-SFT-L-J	○	1/4-19	13.157	62	19.5	12.5	11.0	9.0	12.0	4	4	
TNC-3/8-19PS-SFT-L-J	○	3/8-19	16.662	65	21.0	14.0	14.0	11.0	14.0	4	4	
TNC-1/2-14PS-SFT-L-J	○	1/2-14	20.955	80	27.0	17.0	18.0	14.0	17.0	4	4	
TNC-3/4-14PS-SFT-L-J	○	3/4-14	26.441	85	29.0	19.0	23.0	17.0	20.0	4	4	
TNC-1-11PS-SFT-L-J	○	1-11	33.249	95	35.0	22.0	26.0	24.0	24.0	4	4	

●标准库存 Standard inventory ○订单生产 Order production



型号 Model	库存 Stock	美制斜度管牙(NPT)		尺寸 Dimensions(mm)						价格 Price ¥	重量 Weight g
		Size	Basic Major Dia.	L	l	d	k	lk	Type		
TNC-1/8-28NPT-OTT-J	○	1/8-28	9.728	55	19	8	6	9	3		
TNC-1/4-19NPT-OTT-J	○	1/4-19	13.157	62	28	11	9	12	3		
TNC-3/8-19NPT-OTT-J	○	3/8-19	16.662	65	28	14	11	14	3		
TNC-1/2-14NPT-OTT-J	○	1/2-14	20.955	80	35	18	14	17	3		
TNC-3/4-14NPT-OTT-J	○	3/4-14	26.441	85	35	23	17	20	3		
TNC-1-11NPT-OTT-J	○	1-11	33.249	95	45	26	21	24	3		
TNC-11/4-11NPT-OTT-J	○	11/4-11	41.910	105	45	32	26	30	3		

●标准库存 Standard inventory ○订单生产 Order production



型号 Model	库存 Stock	美制斜度管牙(NPT)		尺寸 Dimensions(mm)							Type	Flutes
		Size	Basic Major Dia.	L	l	l1	d	k	lk			
TNC-1/16-27NPT-SFT-L-J	○	1/16-27	7.770	54	14.0	10.1	8.0	6.0	9.0	4	4	
TNC-1/8-27NPT-SFT-L-J	○	1/8-27	10.117	55	16.5	10.5	8.0	6.0	9.0	4	4	
TNC-1/4-18NPT-SFT-L-J	○	1/4-18	13.426	62	19.5	12.5	11.0	9.0	12.0	4	4	
TNC-3/8-18NPT-SFT-L-J	○	3/8-18	16.866	65	21.0	14.0	14.0	11.0	14.0	4	4	
TNC-1/2-14NPT-SFT-L-J	○	1/2-14	20.980	80	27.0	17.0	18.0	14.0	17.0	4	4	
TNC-3/4-14NPT-SFT-L-J	○	3/4-14	26.325	85	29.0	19.0	23.0	17.0	20.0	4	4	
TNC-1-11/2NPT-SFT-L-J	○	1-11/2	32.934	95	35.0	22.0	26.0	24.0	24.0	4	4	

●标准库存 Standard inventory ○订单生产 Order production

工具系统

Tool system

P1~P80



Contents目录

刀柄选择指南 Toolholder Selection Guide	P
SK工具系统 SK Tooling System	P03-P18
液压刀柄 (GB10944 / DIN69871 / ISO7388/1) Hydraulic handle	P
强力夹头刀柄 (GB10944 / DIN69871 / ISO7388/1) Milling Chucks	P
侧固式刀柄-短型 (GB10944 / DIN69871 / ISO7388/1) Side Lock Holders-Stub	P
2°侧固式刀柄 (GB10944 / DIN69871 / ISO7388/1) 2° Side Lock Holders	P
ER弹簧夹头刀柄 (GB10944 / DIN69871 / ISO7388/1) ER Collet Chucks	P
有扁尾莫式圆锥孔刀柄 (GB10944 / DIN69871 / ISO7388/1) Morse Taper Holders With Tang	P
整体式钻夹头刀柄 (GB10944 / DIN69871 / ISO7388/1) Integral Drill chuck Holders	P
套式立铣刀刀柄 - 英制 (GB10944 / DIN69871 / ISO7388/1) Shell Mill Holders-Inch	P
面铣刀刀柄 (GB10944 / DIN69871 / ISO7388/1) (装C类面铣刀) Facel Mill Holders	P
三面刃铣刀刀柄 (GB10944 / DIN69871 / ISO7388/1) Slotting cutter Holders	P
BT工具系统 BT Tooling System	P19-P34
液压刀柄 (JIS B6339) Hydraulic Chucks	P
强力夹头刀柄 (JIS B6339) Milling Chucks	P
侧固式刀柄 (JIS B6339) Side Lock Holders	P
ER弹簧夹头刀柄 (JIS B6339) ER Collet Chucks	P
无扁尾莫式圆锥孔刀柄 (JIS B6339) Morse Taper Holders Without Tang	P
整体式钻夹头刀柄 (JIS B6339) Integral Drill chuck Holders	P
套式立铣刀刀柄 - 英制 (JIS B6339) Shell Mill Holders - Inch	P
面铣刀刀柄 (JIS B6339) (装C类面铣刀) Face Mill Holders	P
三面刃铣刀刀柄 (JIS B6339) Stub Mill Holders	P
直柄工具系统 Straight Shank Tooling System	P35-P37
卡簧接杆 Spring rod	P
直柄弹簧夹头刀柄 Shank with straight spring collet	P
HSK 工具系统配置图 HSK Tooling System Arrangement Plan	P

HSK工具系统 HSK Tooling System

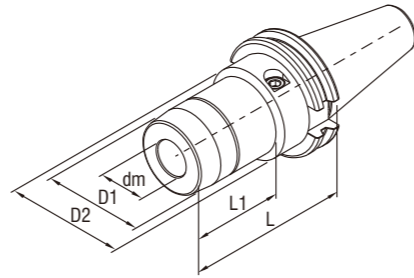
HSK 液压刀柄 (DIN 69893) HSK Hydraulic Shank (DIN 69893)	P
HSK 强力夹头刀柄 (DIN 69893) HSK Milling Chucks	P
HSK 侧固式刀柄 (DIN 69893) HSK Side Lock Holders	P
HSK 2°侧固式刀柄 (DIN 69893) HSK 2° Side Lock Holders	P
HSK ER弹簧夹头刀柄 (DIN 69893) HSK ER Collet Chucks	P
HSK 有扁尾莫式圆锥孔刀柄 (DIN 69893) HSK Morse Taper Holders With Tang	P
HSK 套式立铣刀刀柄 (DIN 69893) HSK Shell Mill Holders	P
HSK 三面刃铣刀刀柄 (DIN 69893) HSK Slotting Cutter Holders	P
热装工具系统 Shrink Fit Tooling System	P49-P66
热装原理 Heat set of principles	P
热装刀柄 Hot charging handle	P
附件 Accessories	P69-P80
拉钉 (BT)/(DIN 69872/JIS) Pull Studs	P
拉钉(MAZAK/CAT) Pull Studs	P
ER卡簧(DIN6499) ER Collets	P
直筒卡簧 Straight Collets	P
液压卡簧 Hydraulic Collets	P
内孔车刀夹套 Internal turning Jacket	P
轴定位器 Z-axis setters	P
光电寻边器 Point Probes	P
7:24 测试棒 7:24 Test Bars	P
主轴清洁棒 Spindle Wipes	P
HSK 冷却液套管及扳手 HSK Coolant Tubes & Coolant Tube Wrenches	P
ER螺母 ER Chuck Nuts	P
三面刃铣刀刀柄用垫圈 Washer for Slotting Cutter Holder	P

整体式工具系统配置图
Integral Type Tooling System Arrangement Plan

侧固式刀柄 Side fixed shank	2°侧固式刀柄 2° side solid shank	ER弹簧夹头刀柄 ER spring collet shank	强力夹头刀柄 Strong collet shank	套式立铣刀刀柄 Shank for sleeve end milling cutter	面铣刀刀柄 Shank for face milling cutter

套式立铣刀及 三面刃铣刀刀柄 Sleeve end milling cutter and Shank for side milling cutter	三面刃铣刀刀柄 Shank for side milling cutter	有扁尾莫式圆锥孔 刀柄 With flat tail MOE taper hole The handle	无扁尾莫式圆锥孔 刀柄 MOE taper hole without flat tail The handle	整体式钻夹头刀柄 Integral drill collet shank	钻夹头刀柄 Shank for drill collet

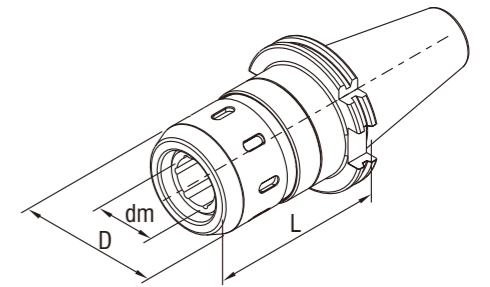
液压刀柄 (GB10944 / DIN69871 / ISO7388/1) Hydraulic handle



型号 Model	库存 Stock	尺寸 Dimensions(mm)						Type	卡簧
		dm	d1	d2	L1	L			
SK40-HC06-75	○	06	26	50	35	75	40	HC06	
SK40-HC08-75	○	08	28	50	35	75	40	HC08	
SK40-HC10-75	○	10	32	50	35	75	40	HC10	
SK40-HC12-80	○	12	35	50	43	80	40	HC12	
SK40-HC14-90	○	14	38	50	51	90	40	HC14	
SK40-HC16-90	○	16	38	50	51	90	40	HC16	
SK40-HC20-90	○	20	42	50	52	90	40	HC20	
SK40-HC25-120	○	25	57	70	63	120	40	HC25	
SK40-HC32-120	○	32	64	70	65	120	40	HC32	
SK50-HC06-75	○	06	26	50	35	75	40	HC06	
SK50-HC08-75	○	08	28	50	35	75	40	HC08	
SK50-HC10-75	○	10	32	50	35	75	50	HC10	
SK50-HC12-80	○	12	35	50	43	80	50	HC12	
SK50-HC14-90	○	14	38	50	51	90	50	HC14	
SK50-HC16-90	○	16	38	50	51	90	50	HC16	
SK50-HC20-90	○	20	42	50	52	90	50	HC20	
SK50-HC25-100	○	25	57	70	63	100	50	HC25	
SK50-HC32-100	○	32	64	70	65	100	50	HC32	

●标准库存 Standard inventory ○订单生产 Order production

强力夹头刀柄 (GB10944 / DIN69871 / ISO7388/1) Milling Chucks



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			卡簧
			dm	D	L	
SK40-C20-75	○	40	20	55	75	C20
SK40-C20-105	○	40	20	55	105	C20
SK40-C20-120	○	40	20	55	120	C20
SK40-C22-95	○	40	22	58	95	C22
SK40-C25-90	○	40	25	62	90	C25
SK40-C25-105	○	40	25	62	105	C25
SK40-C25-120	○	40	25	62	120	C25
SK40-C32-90	○	40	32	72	90	C32
SK40-C32-105	○	40	32	72	105	C32
SK40-C32-120	○	40	32	72	120	C32
SK50-C20-105	○	50	20	55	105	C20
SK50-C20-135	○	50	20	55	135	C20
SK50-C20-165	○	50	20	55	165	C20
SK50-C22-105	○	50	22	58	105	C22
SK50-C25-105	○	50	25	62	105	C25
SK50-C25-135	○	50	25	62	135	C25
SK50-C25-165	○	50	25	62	165	C25
SK50-C32-105	○	50	32	72	105	C32
SK50-C32-135	○	50	32	72	135	C32
SK50-C32-165	○	50	32	72	165	C32
SK50-C42-105	○	50	42	87	105	C32
SK50-C42-135	○	50	42	87	135	C32
SK50-C42-165	○	50	42	87	165	C32

●标准库存 Standard inventory ○订单生产 Order production

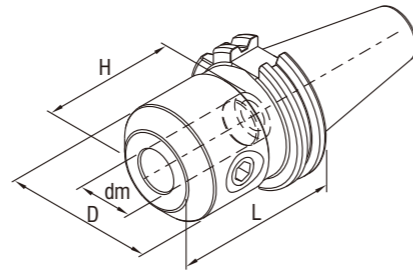
附件 Accessories

扳手 wrench	dm=6	dm=8	dm=10	dm=12	dm=14	dm=16	dm=20	dm=25	dm=32
WHC06	WHC08	WHC10	WHC12	WHC14	WHC16	WHC20	WHC25	WHC32	

附件 Accessories

扳手 wrench	C20	C22	C25	C32
WER32	WER32	WER32	WER40	WER40

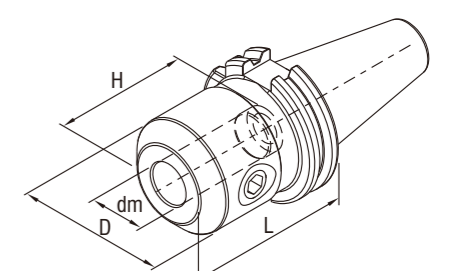
侧固式刀柄 (GB10944 / DIN69871 / ISO7388/1)
Side Lock Holders



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
SK40-XP06-50	○	40	6	25	50	36
SK40-XP06-100	○	40	6	25	100	36
SK40-XP06-160	○	40	6	25	160	36
SK40-XP08-50	○	40	8	28	50	40
SK40-XP08-100	○	40	8	28	100	40
SK40-XP08-160	○	40	8	28	160	40
SK40-XP10-50	○	40	10	35	50	44
SK40-XP10-100	○	40	10	35	100	44
SK40-XP10-160	○	40	10	35	160	44
SK40-XP12-50	○	40	12	42	50	49
SK40-XP12-100	○	40	12	42	100	49
SK40-XP12-160	○	40	12	42	160	49
SK40-XP16-63	○	40	16	48	63	52
SK40-XP16-75	○	40	16	48	75	52
SK40-XP16-100	○	40	16	48	100	52
SK40-XP16-160	○	40	16	48	160	52
SK40-XP20-63	○	40	20	52	63	54
SK40-XP20-75	○	40	20	52	75	54
SK40-XP20-100	○	40	20	52	100	54
SK40-XP20-160	○	40	20	52	160	54
SK40-XP25-100	○	40	25	65	100	66
SK40-XP25-160	○	40	25	65	160	66
SK40-XP32-100	○	40	32	72	100	70
SK40-XP32-160	○	40	32	72	160	70

●标准库存 Standard inventory ○订单生产 Order production

侧固式刀柄 (GB10944 / DIN69871 / ISO7388/1)
Side Lock Holders



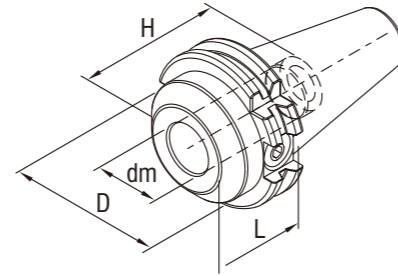
型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
SK50-XP06-63	○	50	6	25	63	36
SK50-XP06-100	○	50	6	25	100	36
SK50-XP06-160	○	50	6	25	160	36
SK50-XP08-63	○	50	8	28	63	40
SK50-XP08-100	○	50	8	28	100	40
SK50-XP08-160	○	50	8	28	160	40
SK50-XP10-63	○	50	10	35	63	44
SK50-XP10-100	○	50	10	35	100	44
SK50-XP10-160	○	50	10	35	160	44
SK50-XP12-63	○	50	12	42	63	49
SK50-XP12-100	○	50	12	42	100	49
SK50-XP12-160	○	50	12	42	160	49
SK50-XP16-63	○	50	16	48	63	52
SK50-XP16-100	○	50	16	48	100	52
SK50-XP16-160	○	50	16	48	160	52
SK50-XP20-63	○	50	20	52	63	54
SK50-XP20-100	○	50	20	52	100	54
SK50-XP20-160	○	50	20	52	160	54
SK50-XP25-80	○	50	25	65	80	66
SK50-XP25-160	○	50	25	65	160	66
SK50-XP32-100	○	50	32	72	100	70
SK50-XP32-160	○	50	32	72	160	70
SK50-XP40-110	○	50	40	84	110	80
SK50-XP40-160	○	50	40	84	160	80

●标准库存 Standard inventory ○订单生产 Order production

备件Spare Parts		dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
		6	8	10	12	16	20	25	32	40
	螺钉 screw	SXP06	SXP08	SXP10	SXP12	SXP16	SXP20	SXP25	SXP32	SXP40
附件Accessories		dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
		6	8	10	12	16	20	25	32	40
	扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	S10

备件Spare Parts		dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
		6	8	10	12	16	20	25	32	40
	螺钉 screw	SXP06	SXP08	SXP10	SXP12	SXP16	SXP20	SXP25	SXP32	SXP40
附件Accessories		dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
		6	8	10	12	16	20	25	32	40
	扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	S10

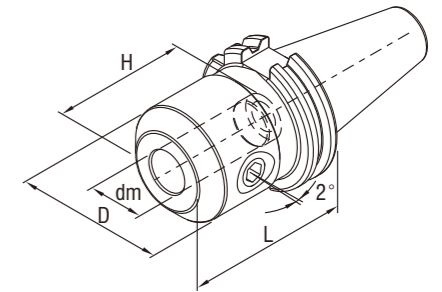
侧固式刀柄-短型 (GB10944 / DIN69871 / ISO7388/1)
Side Lock Holders-Stub



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
SK40-XP16-35	○	40	16	48	35	52
SK40-XP20-35	○	40	20	50	35	54
SK40-XP25-60	○	40	25	50	60	66
SK40-XP32-75	○	40	32	72	75	70
SK50-XP16-35	○	50	16	48	35	52
SK50-XP20-35	○	50	20	52	35	54
SK50-XP25-60	○	50	25	65	60	66
SK50-XP32-63	○	50	32	72	63	70

●标准库存 Standard inventory ○订单生产 Order production

2°侧固式刀柄 (GB10944 / DIN69871 / ISO7388/1)
2° Side Lock Holders



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
SK40-XP06-50	○	40	6	25	50	36
SK40-XP06-100	○	40	6	25	100	36
SK40-XP06-160	○	40	6	25	160	36
SK40-XP08-50	○	40	8	28	50	40
SK40-XP08-100	○	40	8	28	100	40
SK40-XP08-160	○	40	8	28	160	40
SK40-XP10-50	○	40	10	35	50	44
SK40-XP10-100	○	40	10	35	100	44
SK40-XP10-160	○	40	10	35	160	44
SK40-XP12-50	○	40	12	42	50	49
SK40-XP12-100	○	40	12	42	100	49
SK40-XP12-160	○	40	12	42	160	49
SK40-XP16-63	○	40	16	48	63	52
SK40-XP16-100	○	40	16	48	100	52
SK40-XP16-160	○	40	16	48	160	52
SK40-XP20-63	○	40	20	52	63	52
SK40-XP20-100	○	40	20	52	100	54
SK40-XP20-160	○	40	20	52	160	54
SK40-XP25-100	○	40	25	65	100	54
SK40-XP25-160	○	40	25	65	160	54
SK40-XP32-100	○	40	32	72	100	66
SK40-XP32-160	○	40	32	72	160	66

●标准库存 Standard inventory ○订单生产 Order production

*需中心通油的螺钉, 请在订货时注明。

* The screw that needs center to pass oil, please indicate when ordering.

* 交货时包括相应备件。

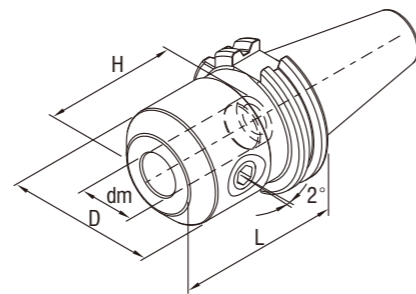
* The delivery includes corresponding spare parts.

备件Spare Parts	dm=	dm=	dm=	dm=
	16	20	25	32
螺钉 screw	SXP16	SXP20	SXP16A,SXP25A	SXP16A,SXP32
附件Accessories	dm=	dm=	dm=	dm=
	16	20	25	32
扳手 wrench	S6	S8	S6,S8	S6,S10

备件Spare Parts	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
	6	8	10	12	16	20	25	32	40
螺钉 screw	SXPD06	SXPD08	SXPD10	SXPD12	SXPD16	SXPD20	SXPD25	SXPD32	SXPD40
附件Accessories	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
	6	8	10	12	16	20	25	32	40
扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	S10

2°侧固式刀柄 (GB10944 / DIN69871 / ISO7388/1)

2° Side Lock Holders



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
SK50-XPD06-63	○	50	6	25	63	
SK50-XPD06-100	○	50	6	25	100	
SK50-XPD06-160	○	50	6	25	160	
SK50-XPD08-63	○	50	8	28	63	
SK50-XPD08-100	○	50	8	28	100	
SK50-XPD08-160	○	50	8	28	160	
SK50-XPD10-63	○	50	10	35	63	
SK50-XPD10-100	○	50	10	35	100	
SK50-XPD10-160	○	50	10	35	160	
SK50-XPD12-63	○	50	12	42	63	
SK50-XPD12-100	○	50	12	42	100	
SK50-XPD12-160	○	50	12	42	160	
SK50-XPD16-63	○	50	16	48	63	
SK50-XPD16-100	○	50	16	48	100	
SK50-XPD16-160	○	50	16	48	160	
SK50-XPD20-63	○	50	20	52	63	
SK50-XPD20-100	○	50	20	52	100	
SK50-XPD20-160	○	50	20	52	160	
SK50-XPD25-80	○	50	25	65	80	
SK50-XPD25-160	○	50	25	65	160	
SK50-XPD32-100	○	50	32	72	100	
SK50-XPD32-160	○	50	32	72	160	
SK50-XPD40-110	○	50	40	84	110	
SK50-XPD40-160	○	50	40	84	160	

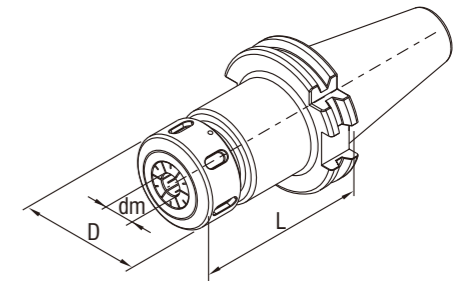
●标准库存 Standard inventory ○订单生产 Order production

- *需中心通油的螺钉, 请在订货时注明。
- * The screw that needs center to pass oil, please indicate when ordering.
- * 交货时包括相应备件。
- * The delivery includes corresponding spare parts.

备件 Spare Parts		dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32	dm=40
	螺钉 screw	SXPD06	SXPD08	SXPD10	SXPD12	SXPD16	SXPD20	SXPD25	SXPD32	SXPD40
附件 Accessories		dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32	dm=40
	扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	S10

ER弹簧夹头刀柄 (GB10944 / DIN69871 / ISO7388/1)

ER Collet Chucks



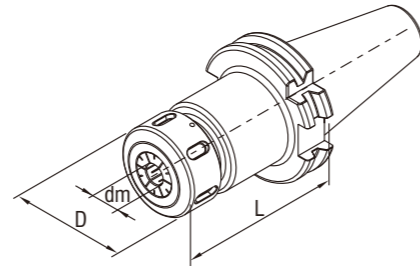
型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			卡箍 circlip
			dm	D	L	
SK40-ER11-70	○	40	0.5~7	23	70	ER11
SK40-ER11-100	○	40	0.5~7	23	100	ER11
SK40-ER11-150	○	40	0.5~7	23	150	ER11
SK40-ER11-200	○	40	0.5~7	23	200	ER11
SK40-ER16-70	○	40	0.5~10	32	70	ER16
SK40-ER16-100	○	40	0.5~10	32	100	ER16
SK40-ER16-150	○	40	0.5~10	32	150	ER16
SK40-ER16-200	○	40	0.5~10	32	200	ER16
SK40-ER20-70	○	40	1.0~12	34	70	ER20
SK40-ER20-100	○	40	1.0~12	34	100	ER20
SK40-ER20-150	○	40	1.0~12	34	150	ER20
SK40-ER20-200	○	40	1.0~12	34	200	ER20
SK40-ER25-70	○	40	1.0~16	42	70	ER25
SK40-ER25-100	○	40	1.0~16	42	100	ER25
SK40-ER25-150	○	40	1.0~16	42	150	ER25
SK40-ER25-200	○	40	1.0~16	42	200	ER25
SK40-ER32-70	○	40	2.0~20	50	70	ER32
SK40-ER32-100	○	40	2.0~20	50	100	ER32
SK40-ER32-150	○	40	2.0~20	50	150	ER32
SK40-ER32-200	○	40	2.0~20	50	200	ER32
SK40-ER40-70	○	40	3.0~26	63	70	ER40
SK40-ER40-100	○	40	3.0~26	63	100	ER40
SK40-ER40-150	○	40	3.0~26	63	150	ER40
SK40-ER40-200	○	40	3.0~26	63	200	ER40

●标准库存 Standard inventory ○订单生产 Order production

- *需中心通油的螺钉, 请在订货时注明。
- * The screw that needs center to pass oil, please indicate when ordering.
- * 交货时包括相应备件。
- * The delivery includes corresponding spare parts.

备件 Spare Parts		ER11	ER16	ER20	ER25	ER32	ER40
	螺钉 screw	NER11	NER16	NER20	NER25	NER32	NER40
	螺母 nut	SER11	SER16	SER20	SER25	SER32	SER40
附件 Accessories		ER11	ER16	ER20	ER25	ER32	ER40
	扳手 wrench	WER11	WER16	WER20	WER25	WER32	WER40

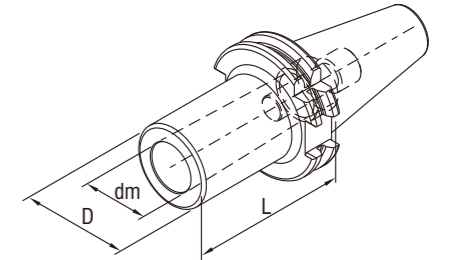
ER弹簧夹头刀柄 (GB10944 / DIN69871 / ISO7388/1)
ER Collet Chucks



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			卡簧
			dm	D	L	
SK50-ER11-70	○	50	0.5~7	23	70	ER11
SK50-ER11-100	○	50	0.5~7	23	100	ER11
SK50-ER11-150	○	50	0.5~7	23	150	ER11
SK50-ER11-200	○	50	0.5~7	23	200	ER11
SK50-ER16-70	○	50	0.5~10	32	70	ER16
SK50-ER16-100	○	50	0.5~10	32	100	ER16
SK50-ER16-150	○	50	0.5~10	32	150	ER16
SK50-ER16-200	○	50	0.5~10	32	200	ER16
SK50-ER20-70	○	50	1.0~12	34	70	ER20
SK50-ER20-100	○	50	1.0~12	34	100	ER20
SK50-ER20-150	○	50	1.0~12	34	150	ER20
SK50-ER20-200	○	50	1.0~12	34	200	ER20
SK50-ER25-70	○	50	1.0~16	42	70	ER25
SK50-ER25-100	○	50	1.0~16	42	100	ER25
SK50-ER25-150	○	50	1.0~16	42	150	ER25
SK50-ER25-200	○	50	1.0~16	42	200	ER25
SK50-ER32-100	○	50	2.0~20	50	100	ER32
SK50-ER32-150	○	50	2.0~20	50	150	ER32
SK50-ER32-200	○	50	2.0~20	50	200	ER32
SK50-ER40-100	○	50	3.0~26	63	100	ER40
SK50-ER40-150	○	50	3.0~26	63	150	ER40
SK50-ER40-200	○	50	3.0~26	63	200	ER40

●标准库存 Standard inventory ○订单生产 Order production

无扁尾莫式圆锥孔刀柄 (GB10944 / DIN69871 / ISO7388/1)
Morse Taper Holders Without Tang



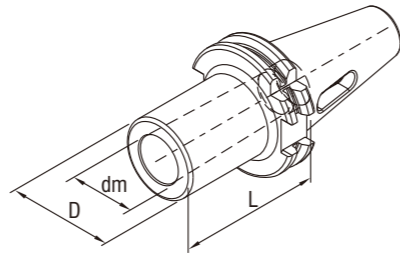
型号 Model	库存 Stock	Type	对应安装铣刀直径(mm)	尺寸 Dimensions(mm)			H
				dm	D	L	
SK40-MW1-50	○	40	MT1	6-12	12.065	27	50
SK40-MW2-50	○	40	MT2	14-20	17.780	32	50
SK40-MW3-70	○	40	MT3	22-36	23.825	40	70
SK40-MW4-95	○	40	MT4	32-56	31.267	50	95
SK50-MW1-45	○	50	MT1	6-12	12.065	27	45
SK50-MW2-60	○	50	MT2	14-20	17.780	32	60
SK50-MW3-65	○	50	MT3	22-36	23.825	40	65
SK50-MW4-70	○	50	MT4	32-56	31.267	50	70
SK50-MW5-105	○	50	MT5	40-63	44.399	78	105

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts		ER11	ER16	ER20	ER25	ER32	ER40
	螺钉 screw	NER11	NER16	NER20	NER25	NER32	NER40
	螺母 nut	SER11	SER16	SER20	SER25	SER32	SER40
附件 Accessories		ER11	ER16	ER20	ER25	ER32	ER40
	扳手 wrench	WER11	WER16	WER20	WER25	WER32	WER40

备件 Spare Parts		MT1	MT2	MT3	MT4	MT5
	紧定螺钉 Set screw	SMW1	SMW2	SMW3	SMW4	SMW5

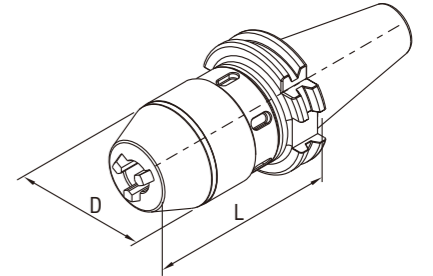
有扁尾莫式圆锥孔刀柄 (GB10944 / DIN69871 / ISO7388/1)
Morse Taper Holders With Tang



型号 Model	库存 Stock	Type	莫氏圆锥孔	对应安装 钻头直径(mm)	尺寸 Dimensions(mm)		
					dm	D	L
SK40-M1-50	○	40	MT1	3-14	12.065	25	50
SK40-M1-120	○	40	MT1	3-14	12.065	25	120
SK40-M2-60	○	40	MT2	14.25-23	17.780	32	60
SK40-M2-120	○	40	MT2	14.25-23	17.780	32	120
SK40-M3-75	○	40	MT3	23.25-31.75	23.825	40	75
SK40-M3-135	○	40	MT3	23.25-31.75	23.825	40	135
SK40-M4-95	○	40	MT4	32-50.5	31.267	48	95
SK40-M4-165	○	40	MT4	32-50.5	31.267	48	165
SK50-M1-45	○	50	MT1	3-14	12.065	25	45
SK50-M1-120	○	50	MT1	3-14	12.065	25	120
SK50-M1-180	○	50	MT1	3-14	12.065	25	180
SK50-M2-60	○	50	MT1	14.25-23	17.780	32	60
SK50-M2-135	○	50	MT1	14.25-23	17.780	32	135
SK50-M2-180	○	50	MT2	14.25-23	17.780	32	180
SK50-M3-65	○	50	MT2	23.25-31.75	23.825	40	65
SK50-M3-150	○	50	MT2	23.25-31.75	23.825	40	150
SK50-M3-180	○	50	MT3	23.25-31.75	23.825	40	180
SK50-M4-75	○	50	MT3	32-50.5	31.267	48	75
SK50-M4-180	○	50	MT4	32-50.5	31.267	48	180
SK50-M5-105	○	50	MT5	51-76	44.399	63	105

●标准库存 Standard inventory ○订单生产 Order production

整体式钻夹头刀柄 (GB10944 / DIN69871 / ISO7388/1)
Integral Drill Chuck Holders



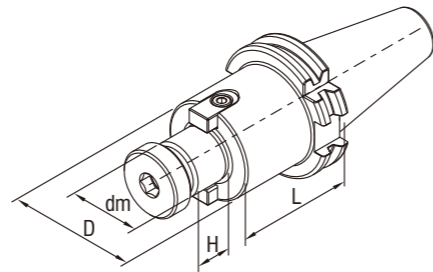
型号 Model	库存 Stock	Type	夹持范围	尺寸 Dimensions(mm)	
				D	L
SK40-DC08 -70	○	40	0.5~8	37.5	70
SK40-DC13 -90	○	40	0.5~13	50.5	90
SK40-DC16 -105	○	40	3~16	57	105
SK50-DC08 -70	○	50	0.5~8	37.5	70
SK50-DC13 -85	○	50	0.5~13	50.5	85
SK50-DC16 -90	○	50	3~16	57	90

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts

	DC08	DC13	DC16
扳手 Set screw	WER20	WER32	WER32

套式立铣刀刀柄 (GB10944 / DIN69871 / ISO7388/1)
Shell Mill Holders



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
SK40-XM16-60	○	40	16	32	60	17
SK40-XM16-120	○	40	16	32	120	17
SK40-XM16-150	○	40	16	32	150	17
SK40-XM16-200	○	40	16	32	200	17
SK40-XM22-60	○	40	22	40	60	19
SK40-XM22-120	○	40	22	40	120	19
SK40-XM22-150	○	40	22	40	150	19
SK40-XM22-200	○	40	22	40	200	19
SK40-XM27-60	○	40	27	48	60	21
SK40-XM27-105	○	40	27	48	105	21
SK40-XM32-75	○	40	32	58	75	24
SK40-XM40-75	○	40	40	70	75	27
SK50-XM16-75	○	50	16	32	75	17
SK50-XM16-120	○	50	16	32	120	17
SK50-XM16-150	○	50	16	32	150	17
SK50-XM16-200	○	50	16	32	200	17
SK50-XM22-75	○	50	22	40	75	19
SK50-XM22-120	○	50	22	40	120	19
SK50-XM22-150	○	50	22	40	150	19
SK50-XM22-200	○	50	22	40	200	19
SK50-XM22-250	○	50	22	40	250	19
SK50-XM27-60	○	50	27	48	60	21
SK50-XM27-105	○	50	27	48	105	21
SK50-XM27-200	○	50	27	48	200	21
SK50-XM27-250	○	50	27	48	250	21
SK50-XM27-300	○	50	27	48	300	21
SK50-XM32-45	○	50	32	58	45	24
SK50-XM32-75	○	50	32	58	75	24
SK50-XM40-45	○	50	40	70	45	27
SK50-XM40-75	○	50	40	70	75	27

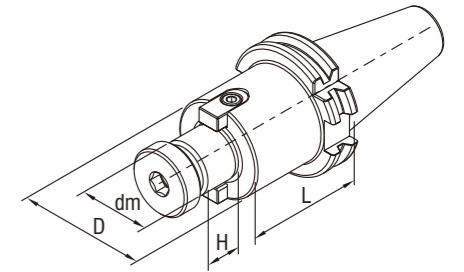
●标准库存 Standard inventory ○订单生产 Order production

* 交货时包括相应备件

* The delivery includes corresponding spare parts

备件 Spare Parts	dm=	dm=	dm=	dm=	dm=
	16	22	27	32	40
紧定螺钉 Set screw	SXM16	SXM22	SXM27	SXM32	SXM40
键 key	KXM16	KXM22	KXM27	KXM32	KXM40
附件 Accessories	dm=	dm=	dm=	dm=	dm=
	16	22	27	32	40
扳手 wrench	S6	S8	S10	S14	S17

套式立铣刀刀柄 - 英制 (GB10944 / DIN69871 / ISO7388/1)
Shell Mill Holders-Inch



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
SK40-XM12.7-45	○	40	12.70	35	45	14
SK40-XM12.7-75	○	40	12.70	35	75	14
SK40-XM19.05-60	○	40	19.05	50	60	17
SK40-XM19.05-105	○	40	19.05	50	105	17
SK40-XM19.05-150	○	40	19.05	50	150	17
SK40-XM25.4-60	○	40	25.40	60	60	17
SK40-XM25.4-105	○	40	25.40	60	105	17
SK40-XM25.4-150	○	40	25.40	60	150	17
SK40-XM31.75-60	○	40	31.75	73	60	17
SK40-XM38.1-60	○	40	38.10	96	60	23.5
SK50-XM12.7-45	○	50	12.70	35	45	14
SK50-XM12.7-105	○	50	12.70	35	105	14
SK50-XM19.05-45	○	50	19.05	50	45	17
SK50-XM19.05-105	○	50	19.05	50	105	17
SK50-XM19.05-150	○	50	19.05	50	150	17
SK50-XM25.4-45	○	50	25.40	60	45	17
SK50-XM25.4-105	○	50	25.40	60	105	17
SK50-XM25.4-150	○	50	25.40	60	150	17
SK50-XM31.75-60	○	50	31.75	73	60	17
SK50-XM31.75-105	○	50	31.75	73	105	17
SK50-XM31.75-150	○	50	31.75	73	150	17
SK50-XM38.1-60	○	50	38.10	96	60	23.5
SK50-XM38.1-105	○	50	38.10	96	105	23.5
SK50-XM50.8-60	○	50	50.80	111	60	23.5

●标准库存 Standard inventory ○订单生产 Order production

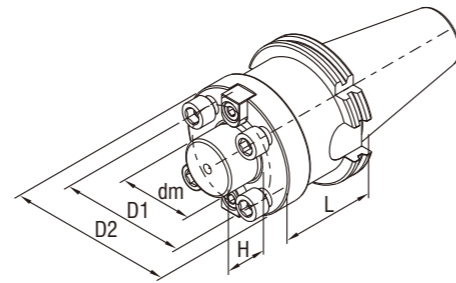
* 交货时包括相应备件

* The delivery includes corresponding spare parts

备件 Spare Parts	dm=	dm=	dm=	dm=	dm=	dm=
	12.7	19.05	25.4	31.75	38.1	50.8
紧定螺钉 Set screw	SXM12	SXM19	SXM25	SXM31	SXM38	SXM50
键 key	KXM12	KXM19	KXM25	KXM31	KXM38	KXM50
附件 Accessories	dm=	dm=	dm=	dm=	dm=	dm=
	12.7	19.05	25.4	31.75	38.1	50.8
扳手 wrench	S1/4"	S5/16"	S3/8"	S1/2"	S5/8"	S3/4"

面铣刀刀柄 (GB10944 / DIN69871 / ISO7388/1) (装C类面铣刀)

Facel Mill Holders



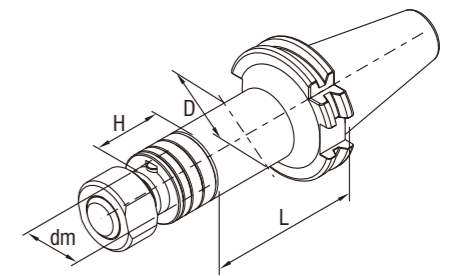
型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)				
			dm	D1	D2	L	H
SK40-XMC40-60	○	40	40	66.7	89	60	27
SK50-XMC40-75	○	50	40	66.7	89	75	27
SK50-XMC60-75	○	50	60	101.6	129	75	38
SK50-XM63.5-75	○	50	63.5	101.6	127	75	30

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts	dm=40	dm=60	dm=63.5
紧定螺钉 Set screw	SM12045(4)	SM16045(4)	SM16045(4)
键 key	KXMC40	KXMC60	KXMC63
附件 Accessories	dm=40	dm=60	dm=63.5
扳手 wrench	S10	S14	S14

三面刃铣刀刀柄 (GB10944 / DIN69871 / ISO7388/1)

Slotting cutter Holders

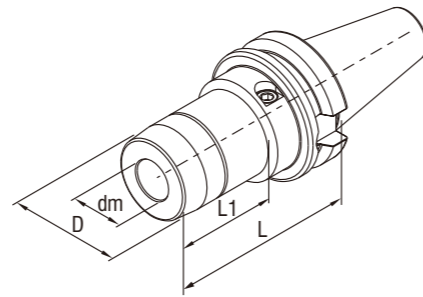


型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)				三面刃铣刀直径	锯片铣刀直径
			dm	D	L	H		
SK40-XS13-60	○	40	13	20	60	15	-	50
SK40-XS13-90	○	40	13	20	90	15	-	50
SK40-XS16-75	○	40	16	26	75	16	50	63
SK40-XS16-105	○	40	16	26	105	16	50	63
SK40-XS22-75	○	40	22	34	75	21	63	80,100,125
SK40-XS22-120	○	40	22	34	120	21	63	80,100,125
SK40-XS27-75	○	40	27	40	75	25	80	-
SK40-XS27-120	○	40	27	40	120	25	80	-
SK40-XS32-90	○	40	32	46	90	30	100	160,200,250
SK50-XS13-75	○	50	13	20	75	15	-	50
SK50-XS13-105	○	50	13	20	105	15	-	50
SK50-XS16-90	○	50	16	26	90	16	50	63
SK50-XS16-120	○	50	16	26	120	16	50	63
SK50-XS22-90	○	50	22	34	90	21	63	80,100,125
SK50-XS22-135	○	50	22	34	135	21	63	80,100,125
SK50-XS27-90	○	50	27	40	90	25	80	80-125
SK50-XS27-135	○	50	27	40	135	25	80	80-125
SK50-XS32-90	○	50	32	46	90	30	100,125	160,200,250
SK50-XS32-135	○	50	32	46	135	30	100,125	160,200,250
SK50-XS40-90	○	50	40	55	90	36	160,200	315
SK50-XS40-135	○	50	40	55	135	36	160,200	315

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts	dm=13	dm=16	dm=22	dm=27	dm=32	dm=40
紧定螺钉 Set screw	NXS13	NXS16	NXS22	NXS27	NXS32	NXS40
键 key	DXS13	DXS16	DXS22	DXS27	DXS32	DXS40
垫圈 The gasket	KXS13	KXS16	KXS22	KXS27	KXS32	KXS40
附件 Accessories	dm=13	dm=16	dm=22	dm=27	dm=32	dm=40
扳手 wrench	-	-	-	-	-	-

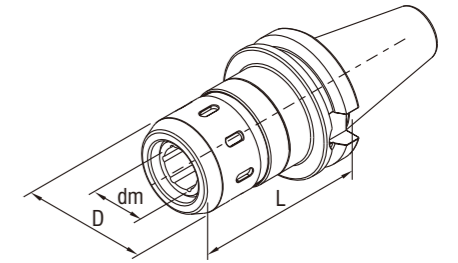
液压刀柄 (JIS B6339) Hydraulic Chucks



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)					卡簧
			dm	d1	d2	L1	L	
BT30-HC06-80	○	30	06	26	50	35	80	HC06
BT30-HC08-80	○	30	08	28	50	35	80	HC08
BT30-HC10-80	○	30	10	32	50	35	80	HC10
BT30-HC12-85	○	30	12	35	50	43	85	HC12
BT30-HC14-95	○	30	14	38	50	51	95	HC14
BT30-HC16-95	○	30	16	38	50	51	95	HC16
BT30-HC20-95	○	30	20	42	50	52	95	HC20
BT40-HC06-85	○	40	06	26	50	35	85	HC06
BT40-HC08-85	○	40	08	28	50	35	85	HC08
BT40-HC10-85	○	40	10	32	50	35	85	HC10
BT40-HC12-90	○	40	12	35	50	43	90	HC12
BT40-HC14-95	○	40	14	38	50	51	95	HC14
BT40-HC16-95	○	40	16	38	50	51	95	HC16
BT40-HC20-95	○	40	20	42	50	52	95	HC20
BT40-HC25-110	○	40	25	57	70	63	110	HC25
BT40-HC32-110	○	40	32	64	70	65	110	HC32
BT50-HC06-95	○	50	06	26	50	35	95	HC06
BT50-HC08-95	○	50	08	28	50	35	95	HC08
BT50-HC10-95	○	50	10	32	50	35	95	HC10
BT50-HC12-100	○	50	12	35	50	43	100	HC12
BT50-HC14-105	○	50	14	38	50	51	105	HC14
BT50-HC16-105	○	50	16	38	50	51	105	HC16
BT50-HC20-105	○	50	20	42	50	52	105	HC20
BT50-HC25-120	○	50	25	57	70	63	120	HC25
BT50-HC32-120	○	50	32	64	70	65	120	HC32

●标准库存 Standard inventory ○订单生产 Order production

强力夹头刀柄 (JIS B6339) Milling Chucks



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)				卡簧
			dm	D	L		
BT30-C20-70	○	30	20	55	70	C20	
BT30-C22-95	○	30	22	58	95	C22	
BT40-C20-75	○	40	20	55	75	C20	
BT40-C20-105	○	40	20	55	105	C20	
BT40-C20-120	○	40	20	55	120	C20	
BT40-C22-95	○	40	22	58	95	C22	
BT40-C25-90	○	40	25	62	90	C25	
BT40-C25-105	○	40	25	62	105	C25	
BT40-C25-120	○	40	25	62	120	C25	
BT40-C32-90	○	40	32	72	90	C32	
BT40-C32-105	○	40	32	72	105	C32	
BT40-C32-120	○	40	32	72	120	C32	
BT50-C20-105	○	50	20	55	105	C20	
BT50-C20-135	○	50	20	55	135	C20	
BT50-C20-165	○	50	20	55	165	C20	
BT50-C22-105	○	50	22	58	105	C22	
BT50-C25-105	○	50	25	62	105	C25	
BT50-C25-135	○	50	25	62	135	C25	
BT50-C25-165	○	50	25	62	165	C25	
BT50-C32-105	○	50	32	72	105	C32	
BT50-C32-135	○	50	32	72	135	C32	
BT50-C32-165	○	50	32	72	165	C32	
BT50-C42-105	○	50	42	87	105	C32	
BT50-C42-135	○	50	42	87	135	C32	
BT50-C42-165	○	50	42	87	165	C32	

●标准库存 Standard inventory ○订单生产 Order production

附件 Accessories



扳手
wrench

dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
6	8	10	12	14	16	20	25	32	
WHC06	WHC08	WHC10	WHC12	WHC14	WHC16	WHC20	WHC25	WHC32	

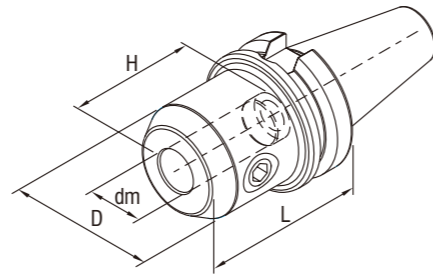
附件 Accessories



扳手
wrench

C20	C22	C25	C32
WER32	WER32	WER40	WER40

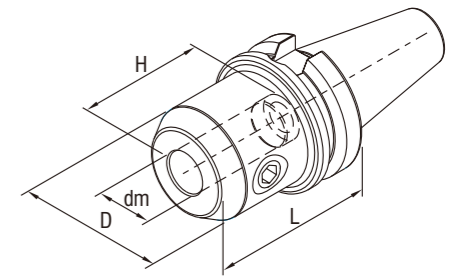
侧固式刀柄 (JIS B6339)
Side Lock Holders



型号 Model	库存 Stock	Type	dm	D	L	H
BT30-XP06-60	○	30	6	25	60	36
BT30-XP08-60	○	30	8	28	60	40
BT30-XP10-60	○	30	10	35	60	44
BT30-XP12-60	○	30	12	40	60	49
BT30-XP16-60	○	30	16	45	60	52
BT30-XP20-75	○	30	20	50	75	54
BT40-XP06-75	○	40	6	25	75	36
BT40-XP06-105	○	40	6	25	105	36
BT40-XP06-165	○	40	6	25	165	36
BT40-XP08-75	○	40	8	28	75	40
BT40-XP08-105	○	40	8	28	105	40
BT40-XP08-165	○	40	8	28	165	40
BT40-XP10-75	○	40	10	35	75	44
BT40-XP10-105	○	40	10	35	105	44
BT40-XP10-165	○	40	10	35	165	44
BT40-XP12-75	○	40	12	42	75	49
BT40-XP12-105	○	40	12	42	105	49
BT40-XP12-165	○	40	12	42	165	49
BT40-XP16-75	○	40	16	48	75	52
BT40-XP16-105	○	40	16	48	105	52
BT40-XP16-165	○	40	16	48	165	52
BT40-XP20-75	○	40	20	52	75	54
BT40-XP20-105	○	40	20	52	105	54
BT40-XP20-165	○	40	20	52	165	54
BT40-XP25-90	○	40	25	65	90	66
BT40-XP25-165	○	40	25	65	165	66
BT40-XP32-105	○	40	32	72	105	70
BT40-XP32-165	○	40	32	72	165	70

●标准库存 Standard inventory ○订单生产 Order production

侧固式刀柄 (JIS B6339)
Side Lock Holders



型号 Model	库存 Stock	Type	dm	D	L	H
BT50-XP06-75	○	50	6	25	75	36
BT50-XP06-105	○	50	6	25	105	36
BT50-XP06-165	○	50	6	25	165	36
BT50-XP08-75	○	50	8	28	75	40
BT50-XP08-105	○	50	8	28	105	40
BT50-XP08-165	○	50	8	28	165	40
BT50-XP10-75	○	50	10	35	75	44
BT50-XP10-105	○	50	10	35	105	44
BT50-XP10-165	○	50	10	35	165	44
BT50-XP12-90	○	50	12	42	90	49
BT50-XP12-105	○	50	12	42	105	49
BT50-XP12-165	○	50	12	42	165	49
BT50-XP16-90	○	50	16	48	90	52
BT50-XP16-105	○	50	16	48	105	52
BT50-XP16-165	○	50	16	48	165	52
BT50-XP20-90	○	50	20	52	90	54
BT50-XP20-105	○	50	20	52	105	54
BT50-XP20-165	○	50	20	52	165	54
BT50-XP25-105	○	50	25	65	105	66
BT50-XP25-165	○	50	25	65	165	66
BT50-XP32-105	○	50	32	72	105	70
BT50-XP32-165	○	50	32	72	165	70
BT50-XP40-120	○	50	40	84	120	80
BT50-XP40-180	○	50	40	84	180	80

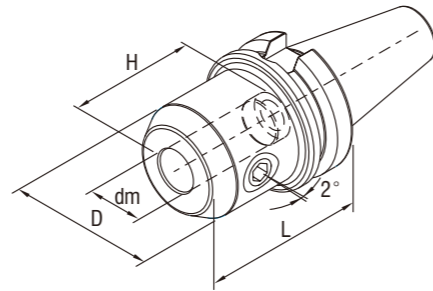
●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32	dm=40
螺钉 screw	SXP06	SXP08	SXP10	SXP12	SXP16	SXP20	SXP25	SXP32	SXP40
附件 Accessories	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32	dm=40
扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	S10

备件 Spare Parts	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32	dm=40
螺钉 screw	SXP06	SXP08	SXP10	SXP12	SXP16	SXP20	SXP25	SXP32	SXP40
附件 Accessories	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32	dm=40
扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	S10

2°侧固式刀柄 (JIS B6339)

2° Side Lock Holders



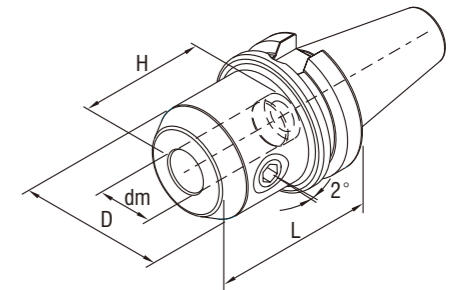
型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
BT30-XP06-60	○	30	6	25	60	
BT30-XP08-60	○	30	8	28	60	
BT30-XP10-60	○	30	10	35	60	
BT30-XP12-60	○	30	12	40	60	
BT30-XP16-60	○	30	16	45	60	
BT30-XP20-75	○	30	20	50	75	
BT40-XP06-75	○	40	6	25	75	
BT40-XP06-105	○	40	6	25	105	
BT40-XP06-165	○	40	6	25	165	
BT40-XP08-75	○	40	8	28	75	
BT40-XP08-105	○	40	8	28	105	
BT40-XP08-165	○	40	8	28	165	
BT40-XP10-75	○	40	10	35	75	
BT40-XP10-105	○	40	10	35	105	
BT40-XP10-165	○	40	10	35	165	
BT40-XP12-75	○	40	12	42	75	
BT40-XP12-105	○	40	12	42	105	
BT40-XP12-165	○	40	12	42	165	
BT40-XP16-75	○	40	16	48	75	
BT40-XP16-105	○	40	16	48	105	
BT40-XP16-165	○	40	16	48	165	
BT40-XP20-75	○	40	20	52	75	
BT40-XP20-105	○	40	20	52	105	
BT40-XP20-165	○	40	20	52	165	
BT40-XP25-90	○	40	25	65	90	
BT40-XP25-165	○	40	25	65	165	
BT40-XP32-105	○	40	32	72	105	
BT40-XP32-165	○	40	32	72	165	

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
	6	8	10	12	16	20	25	32	
螺钉 screw	SXPD06	SXPD08	SXPD10	SXPD12	SXPD16	SXPD20	SXPD25	SXPD32	
附件 Accessories	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
	6	8	10	12	16	20	25	32	
扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	

2°侧固式刀柄 (JIS B6339)

2° Side Lock Holders



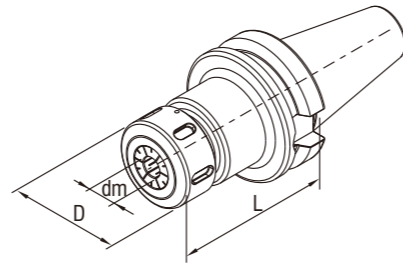
型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
BT50-XP06-75	○	50	6	25	75	
BT50-XP06-105	○	50	6	25	105	
BT50-XP06-165	○	50	6	25	165	
BT50-XP08-75	○	50	8	28	75	
BT50-XP08-105	○	50	8	28	105	
BT50-XP08-165	○	50	8	28	165	
BT50-XP10-75	○	50	10	35	75	
BT50-XP10-105	○	50	10	35	105	
BT50-XP10-165	○	50	10	35	165	
BT50-XP12-90	○	50	12	42	90	
BT50-XP12-105	○	50	12	42	105	
BT50-XP12-165	○	50	12	42	165	
BT50-XP16-90	○	50	16	48	90	
BT50-XP16-105	○	50	16	48	105	
BT50-XP16-165	○	50	16	48	165	
BT50-XP20-90	○	50	20	52	90	
BT50-XP20-105	○	50	20	52	105	
BT50-XP20-165	○	50	20	52	165	
BT50-XP25-105	○	50	25	65	105	
BT50-XP25-165	○	50	25	65	165	
BT50-XP32-105	○	50	32	72	105	
BT50-XP32-165	○	50	32	72	165	

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
	6	8	10	12	16	20	25	32	
螺钉 screw	SXPD06	SXPD08	SXPD10	SXPD12	SXPD16	SXPD20	SXPD25	SXPD32	
附件 Accessories	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=	dm=
	6	8	10	12	16	20	25	32	
扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	

ER弹簧夹头刀柄 (JIS B6339)

ER Collet Chucks

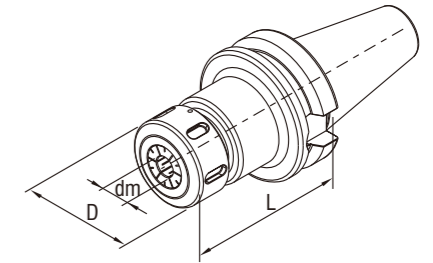


型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)				卡簧
			dm	D	L		
BT30-ER11-60	○	30	0.5~7	23	60	ER11	
BT30-ER16-60	○	30	0.5~10	32	60	ER16	
BT30-ER20-60	○	30	1.0~12	34	60	ER20	
BT30-ER25-60	○	30	1.0~16	42	60	ER25	
BT40-ER11-60	○	40	0.5~7	23	60	ER11	
BT40-ER11-90	○	40	0.5~7	23	90	ER11	
BT40-ER11-120	○	40	0.5~7	23	120	ER11	
BT40-ER11-150	○	40	0.5~7	23	150	ER11	
BT40-ER11-180	○	40	0.5~7	23	180	ER11	
BT40-ER16-60	○	40	0.5~10	32	60	ER16	
BT40-ER16-90	○	40	0.5~10	32	90	ER16	
BT40-ER16-120	○	40	0.5~10	32	120	ER16	
BT40-ER16-150	○	40	0.5~10	32	150	ER16	
BT40-ER16-180	○	40	0.5~10	32	180	ER16	
BT40-ER20-60	○	40	1.0~12	34	60	ER20	
BT40-ER20-90	○	40	1.0~12	34	90	ER20	
BT40-ER20-120	○	40	1.0~12	34	120	ER20	
BT40-ER20-150	○	40	1.0~12	34	150	ER20	
BT40-ER20-180	○	40	1.0~12	34	180	ER20	
BT40-ER25-75	○	40	1.0~16	42	75	ER25	
BT40-ER25-90	○	40	1.0~16	42	90	ER25	
BT40-ER25-120	○	40	1.0~16	42	120	ER25	
BT40-ER25-150	○	40	1.0~16	42	150	ER25	
BT40-ER25-180	○	40	1.0~16	42	180	ER25	
BT40-ER32-75	○	40	2.0~20	50	75	ER32	
BT40-ER32-90	○	40	2.0~20	50	90	ER32	
BT40-ER32-120	○	40	2.0~20	50	120	ER32	
BT40-ER32-150	○	40	2.0~20	50	150	ER32	
BT40-ER32-180	○	40	2.0~20	50	180	ER32	
BT40-ER40-90	○	40	3.0~26	63	90	ER40	
BT40-ER40-120	○	40	3.0~26	63	120	ER40	
BT40-ER40-150	○	40	3.0~26	63	150	ER40	
BT40-ER40-180	○	40	3.0~26	63	180	ER40	

●标准库存 Standard inventory ○订单生产 Order production

ER弹簧夹头刀柄 (JIS B6339)

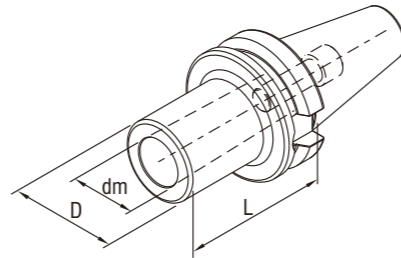
ER Collet Chucks



型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)				卡簧
			dm	D	L		
BT50-ER11-90	○	50	0.5~7	23	90	ER11	
BT50-ER11-105	○	50	0.5~7	23	105	ER11	
BT50-ER11-120	○	50	0.5~7	23	120	ER11	
BT50-ER11-150	○	50	0.5~7	23	150	ER11	
BT50-ER11-180	○	50	0.5~7	23	180	ER11	
BT50-ER16-90	○	50	0.5~10	32	90	ER16	
BT50-ER16-105	○	50	0.5~10	32	105	ER16	
BT50-ER16-120	○	50	0.5~10	32	120	ER16	
BT50-ER16-135	○	50	0.5~10	32	135	ER16	
BT50-ER16-165	○	50	0.5~10	32	165	ER16	
BT50-ER16-195	○	50	0.5~10	32	195	ER16	
BT50-ER20-90	○	50	1.0~12	34	90	ER20	
BT50-ER20-105	○	50	1.0~12	34	105	ER20	
BT50-ER20-120	○	50	1.0~12	34	120	ER20	
BT50-ER20-135	○	50	1.0~12	34	135	ER20	
BT50-ER20-165	○	50	1.0~12	34	165	ER20	
BT50-ER20-195	○	50	1.0~12	34	195	ER20	
BT50-ER25-90	○	50	1.0~16	42	90	ER25	
BT50-ER25-105	○	50	1.0~16	42	105	ER25	
BT50-ER25-120	○	50	1.0~16	42	120	ER25	
BT50-ER25-135	○	50	1.0~16	42	135	ER25	
BT50-ER25-165	○	50	1.0~16	42	165	ER25	
BT50-ER25-195	○	50	1.0~16	42	195	ER25	
BT50-ER32-90	○	50	2.0~20	50	90	ER32	
BT50-ER32-105	○	50	2.0~20	50	105	ER32	
BT50-ER32-120	○	50	2.0~20	50	120	ER32	
BT50-ER32-135	○	50	2.0~20	50	135	ER32	
BT50-ER32-165	○	50	2.0~20	50	165	ER32	
BT50-ER32-195	○	50	2.0~20	50	195	ER32	
BT50-ER40-90	○	50	3.0~26	63	90	ER40	
BT50-ER40-105	○	50	3.0~26	63	105	ER40	
BT50-ER40-120	○	50	3.0~26	63	120	ER40	
BT50-ER40-135	○	50	3.0~26	63	135	ER40	
BT50-ER40-165	○	50	3.0~26	63	165	ER40	
BT50-ER40-195	○	50	3.0~26	63	195	ER40	

●标准库存 Standard inventory ○订单生产 Order production

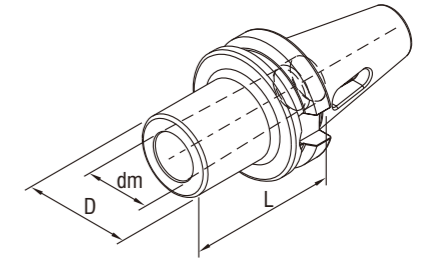
无扁尾莫式圆锥孔刀柄 (JIS B6339) Morse Taper Holders Without Tang



型号 Model	库存 Stock	Type	莫氏圆锥孔	对应安装铣刀直径(mm)	尺寸 Dimensions(mm)		
					dm	D	L
BT40-MW1-45	○	40	MT1	6-12	12.065	27	45
BT40-MW2-60	○	40	MT2	14-20	17.780	32	60
BT40-MW3-75	○	40	MT3	22-36	23.825	40	75
BT40-MW4-105	○	40	MT4	32-56	31.267	50	105
BT50-MW1-45	○	50	MT1	6-12	12.065	27	45
BT50-MW2-45	○	50	MT2	14-20	17.780	32	45
BT50-MW3-60	○	50	MT3	22-36	23.825	40	60
BT50-MW4-75	○	50	MT4	32-56	31.267	50	75
BT50-MW5-105	○	50	MT5	40-63	44.399	78	105

●标准库存 Standard inventory ○订单生产 Order production

有扁尾莫式圆锥孔刀柄 (JIS B6339) Morse Taper Holders With Tang



型号 Model	库存 Stock	Type	莫氏圆锥孔	对应安装钻头直径(mm)	dm	尺寸 Dimensions(mm)		
						D	L	
BT30-M1-45	○	30	MT1	3-14	12.065	25	45	
BT30-M2-60	○	30	MT2	14.25-23	17.780	32	60	
BT40-M1-45	○	40	MT1	3-14	12.065	25	45	
BT40-M1-120	○	40	MT1	3-14	12.065	25	120	
BT40-M2-60	○	40	MT2	14.25-23	17.780	32	60	
BT40-M2-120	○	40	MT2	14.25-23	17.780	32	120	
BT40-M3-75	○	40	MT3	23.25-31.75	23.825	40	75	
BT40-M3-135	○	40	MT3	23.25-31.75	23.825	40	135	
BT40-M4-95	○	40	MT4	32-50.5	31.267	48	95	
BT40-M4-165	○	40	MT4	32-50.5	31.267	48	165	
BT50-M1-45	○	50	MT1	3-14	12.065	25	45	
BT50-M1-120	○	50	MT1	3-14	12.065	25	120	
BT50-M1-180	○	50	MT1	3-14	12.065	25	180	
BT50-M2-45	○	50	MT2	14.25-23	17.780	32	45	
BT50-M2-135	○	50	MT2	14.25-23	17.780	32	135	
BT50-M2-180	○	50	MT2	14.25-23	17.780	32	180	
BT50-M3-75	○	50	MT3	23.25-31.75	23.825	40	75	
BT50-M3-150	○	50	MT3	23.25-31.75	23.825	40	150	
BT50-M3-180	○	50	MT3	23.25-31.75	23.825	40	180	
BT50-M4-75	○	50	MT4	32-50.5	31.267	48	75	
BT50-M4-180	○	50	MT4	32-50.5	31.267	48	180	
BT50-M5-105	○	50	MT5	51-76	44.399	63	105	
BT50-M5-210	○	50	MT5	51-76	44.399	63	210	

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts

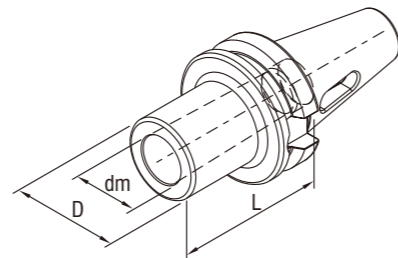


紧定螺钉
Set screw

	MT1	MT2	MT3	MT4	MT5
	SMW1	SMW2	SMW3	SMW4	SMW5

有扁尾莫式圆锥孔刀柄 (JIS B6339)

Morse Taper Holders With Tang

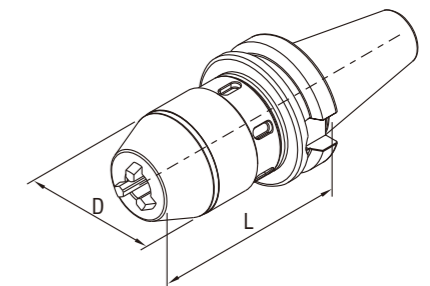


型号 Model	库存 Stock	Type	莫氏圆锥孔	对应安装 钻头直径(mm)	dm	尺寸 Dimensions(mm) D	L
BT30-M1-45	○	30	MT1	3-14	12.065	25	45
BT30-M2-60	○	30	MT2	14.25-23	17.780	32	60
BT40-M1-45	○	40	MT1	3-14	12.065	25	45
BT40-M1-120	○	40	MT1	3-14	12.065	25	120
BT40-M2-60	○	40	MT2	14.25-23	17.780	32	60
BT40-M2-120	○	40	MT2	14.25-23	17.780	32	120
BT40-M3-75	○	40	MT3	23.25-31.75	23.825	40	75
BT40-M3-135	○	40	MT3	23.25-31.75	23.825	40	135
BT40-M4-95	○	40	MT4	32-50.5	31.267	48	95
BT40-M4-165	○	40	MT4	32-50.5	31.267	48	165
BT50-M1-45	○	50	MT1	3-14	12.065	25	45
BT50-M1-120	○	50	MT1	3-14	12.065	25	120
BT50-M1-180	○	50	MT1	3-14	12.065	25	180
BT50-M2-45	○	50	MT2	14.25-23	17.780	32	45
BT50-M2-135	○	50	MT2	14.25-23	17.780	32	135
BT50-M2-180	○	50	MT2	14.25-23	17.780	32	180
BT50-M3-75	○	50	MT3	23.25-31.75	23.825	40	75
BT50-M3-150	○	50	MT3	23.25-31.75	23.825	40	150
BT50-M3-180	○	50	MT3	23.25-31.75	23.825	40	180
BT50-M4-75	○	50	MT4	32-50.5	31.267	48	75
BT50-M4-180	○	50	MT4	32-50.5	31.267	48	180
BT50-M5-105	○	50	MT5	51-76	44.399	63	105
BT50-M5-210	○	50	MT5	51-76	44.399	63	210

●标准库存 Standard inventory ○订单生产 Order production

整体式钻夹头刀柄 (JIS B6339)

Integral Drill chuck Holders



型号 Model	库存 Stock	Type	夹持范围	尺寸 Dimensions(mm)	
				D	L
BT30-DC08-75	○	30	0.5-8	37.5	75
BT30-DC 13-110	○	30	0.5-13	50.5	110
BT30-DC 16-115	○	30	3-16	57	115
BT40-DC08-80	○	40	0.5-8	37.5	80
BT40-DC13-95	○	40	0.5-13	50.5	95
BT40-DC13-150	○	40	0.5-13	50.5	150
BT40-DC16-100	○	40	3-16	57	100
BT40-DC16-150	○	40	3-16	57	150
BT50-DC08-90	○	50	0.5-8	37.5	90
BT50-DC13-105	○	50	0.5-13	50.5	105
BT50-DC13-180	○	50	0.5-13	50.5	180
BT50-DC16-110	○	50	3-16	57	110
BT50-DC16-180	○	50	3-16	57	180

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts



扳手
wrench

DC08

WER20

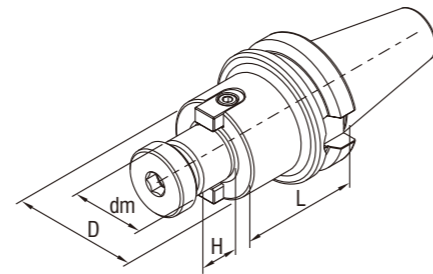
DC13

WER32

DC16

WER32

套式立铣刀刀柄 (JIS B6339) Shell Mill Holders

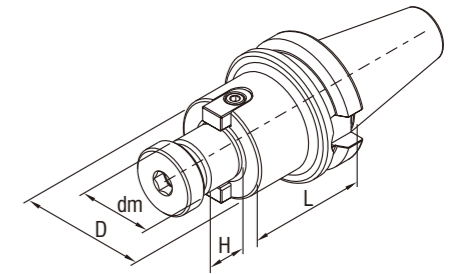


型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
BT30-XM16-45	○	30	16	32	45	17
BT30-XM16-60	○	30	16	32	60	17
BT30-XM22-45	○	30	22	40	45	19
BT30-XM22-60	○	30	22	40	60	19
BT30-XM27-45	○	30	27	48	45	21
BT30-XM27-60	○	30	27	48	60	21
BT40-XM16-60	○	40	16	32	60	17
BT40-XM16-120	○	40	16	32	120	17
BT40-XM16-150	○	40	16	32	150	17
BT40-XM16-200	○	40	16	32	200	17
BT40-XM22-60	○	40	22	40	60	19
BT40-XM22-120	○	40	22	40	120	19
BT40-XM22-150	○	40	22	40	150	19
BT40-XM22-200	○	40	22	40	200	19
BT40-XM27-45	○	40	27	48	45	21
BT40-XM27-60	○	40	27	48	60	21
BT40-XM27-105	○	40	27	48	105	21
BT40-XM32-45	○	40	32	58	45	24
BT40-XM32-75	○	40	32	58	75	24
BT40-XM40-60	○	40	40	70	60	27
BT50-XM16-75	○	50	16	32	75	17
BT50-XM16-120	○	50	16	32	120	17
BT50-XM16-150	○	50	16	32	150	17
BT50-XM16-200	○	50	16	32	200	17
BT50-XM22-75	○	50	22	40	75	19
BT50-XM22-120	○	50	22	40	120	19
BT50-XM22-150	○	50	22	40	150	19
BT50-XM22-200	○	50	22	40	200	19
BT50-XM27-60	○	50	27	48	60	21
BT50-XM27-105	○	50	27	48	105	21
BT50-XM27-200	○	50	27	48	200	21
BT50-XM27-250	○	50	27	48	250	21
BT50-XM27-300	○	50	27	48	300	21
BT50-XM32-45	○	50	32	58	45	24
BT50-XM32-75	○	50	32	58	75	24
BT50-XM32-105	○	50	32	58	105	24
BT50-XM40-75	○	50	40	70	75	27
BT50-XM40-105	○	50	40	70	105	27

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts		dm=	dm=	dm=	dm=	dm=
		16	22	27	32	40
	紧定螺钉 Set screw	SXM16	SXM22	SXM27	SXM32	SXM40
	键 key	KXM16	KXM22	M12	KXM32	KXM40
附件 Accessories		dm=	dm=	dm=	dm=	dm=
		16	22	27	32	40
	扳手 wrench	S6	S8	S10	S14	S17

套式立铣刀刀柄 - 英制 (JIS B6339) Shell Mill Holders - Inch



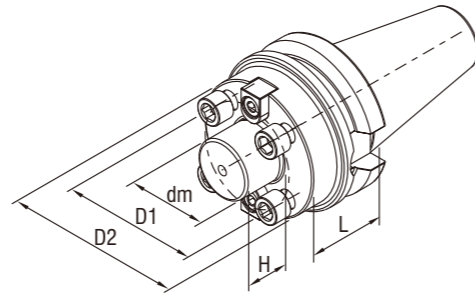
型号 Model	库存 Stock	Type	尺寸 Dimensions(mm)			
			dm	D	L	H
BT30-XM12.7-45	○	30	12.70	35	45	14
BT30-XM19.05-45	○	30	19.05	50	45	17
BT30-XM25.4-45	○	30	25.40	60	45	17
BT40-XM12.7-45	○	40	12.70	35	45	14
BT40-XM12.7-105	○	40	12.70	35	105	14
BT40-XM19.05-45	○	40	19.05	50	45	17
BT40-XM19.05-105	○	40	19.05	50	105	17
BT40-XM19.05-150	○	40	19.05	50	150	17
BT40-XM25.4-45	○	40	25.40	60	45	17
BT40-XM25.4-75	○	40	25.40	60	75	17
BT40-XM25.4-150	○	40	25.40	60	150	17
BT40-XM31.75-60	○	40	31.75	73	60	17
BT40-XM38.1-60	○	40	38.10	96	60	23.5
BT50-XM12.7-60	○	50	12.70	35	60	14
BT50-XM19.05-60	○	50	19.05	50	60	17
BT50-XM25.4-60	○	50	25.40	60	60	17
BT50-XM25.4-105	○	50	25.40	60	105	17
BT50-XM25.4-150	○	50	25.40	60	150	17
BT50-XM31.75-60	○	50	31.75	73	60	17
BT50-XM31.75-105	○	50	31.75	73	105	17
BT50-XM31.75-150	○	50	31.75	73	150	17
BT50-XM38.1-60	○	50	38.10	96	60	23.5
BT50-XM38.1-105	○	50	38.10	96	105	23.5
BT50-XM50.8-60	○	50	50.80	111	60	23.5

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts		dm=	dm=	dm=	dm=	dm=
		12.7	19.05	25.4	31.75	38.1
	紧定螺钉 Set screw	SXM12	SXM10	SXM27	SXM32	SXM40
	键 key	KXM12	KXM19	KXM25	KXM31	KXM38
	键 key	KXM12	KXM19	KXM25	KXM31	KXM38
	键 key	KXM12	KXM19	KXM25	KXM31	KXM38
附件 Accessories		dm=	dm=	dm=	dm=	dm=
		12.7	19.05	25.4	31.75	38.1
	扳手 wrench	S1/4"	S5/16"	S3/8"	S1/2"	S5/8"
	扳手 wrench	S1/4"	S5/16"	S3/8"	S1/2"	S5/8"
	扳手 wrench	S1/4"	S5/16"	S3/8"	S1/2"	S5/8"

面铣刀刀柄 (JIS B6339) (装C类面铣刀)

Face Mill Holders



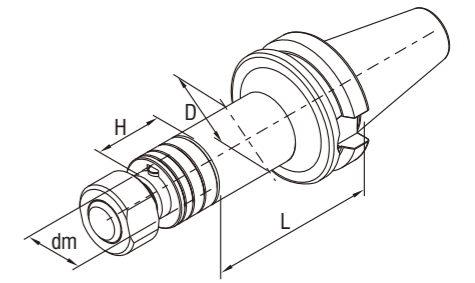
型号 Model	库存 Stock	Type	dm	D1	D2	尺寸 Dimensions(mm)		
						L	H	
BT40-XMC40-60	○	40	40	66.7	89	60	27	
BT50-XMC40-75	○	50	40	66.7	89	75	27	
BT50-XMC60-75	○	50	60	101.6	129	75	38	
BT50-XM63.5-75	○	50	63.5	101.6	127	75	30	

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts	dm= 40	dm= 60	dm= 63.5
紧定螺钉 Set screw	SM12045(4)	SM16045(4)	SM16045(4)
键 key	KXMC40	KXMC60	KXMC63
附件 Accessories	dm= 40	dm= 60	dm= 63.5
扳手 wrench	S10	S14	S14

三面刃铣刀刀柄 (JIS B6339)

Stub Mill Holders

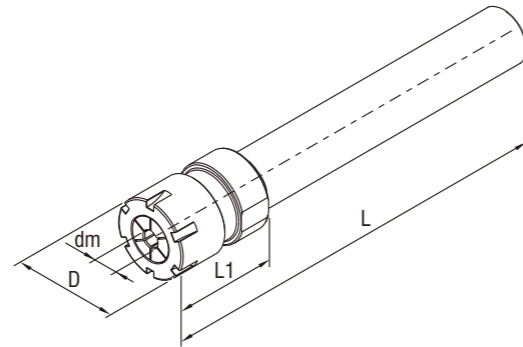


型号 Model	库存 Stock	Type	dm	尺寸 Dimensions(mm)			三面刃铣刀直径	锯片铣刀直径
				D	L	H		
BT30-XS13-75	○	30	13	20	75	15	-	50
BT30-XS16-75	○	30	16	26	75	16	50	63
BT30-XS22-75	○	30	22	34	75	21	63	80,100,125
BT40-XS13-60	○	40	13	20	60	15	-	50
BT40-XS13-90	○	40	13	20	90	15	-	50
BT40-XS16-75	○	40	16	26	75	16	50	63
BT40-XS16-105	○	40	16	26	105	16	50	63
BT40-XS22-75	○	40	22	34	75	21	63	80,100,125
BT40-XS22-120	○	40	22	34	120	21	63	80,100,125
BT40-XS27-75	○	40	27	40	75	25	80	-
BT40-XS27-120	○	40	27	40	120	25	80	-
BT40-XS32-90	○	40	32	46	90	30	100	160,200,250
BT50-XS13-75	○	50	13	20	75	15	-	50
BT50-XS13-105	○	50	13	20	105	15	-	50
BT50-XS16-90	○	50	16	26	90	16	50	63
BT50-XS16-120	○	50	16	26	120	16	50	63
BT50-XS22-90	○	50	22	34	90	21	63	80,100,125
BT50-XS22-135	○	50	22	34	135	21	63	80,100,125
BT50-XS27-90	○	50	27	40	90	25	80	80-125
BT50-XS27-135	○	50	27	40	135	25	80	80-125
BT50-XS32-90	○	50	32	46	90	30	100,125	160,200,250
BT50-XS32-135	○	50	32	46	135	30	100,125	160,200,250
BT50-XS40-90	○	50	40	55	90	36	160,200	315
BT50-XS40-135	○	50	40	55	135	36	160,200	315

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts	dm= 13	dm= 16	dm= 22	dm= 27	dm= 32	dm= 40
紧定螺钉 Set screw	NXS13	NXS16	NXS22	NXS27	NXS32	NXS40
键 key	DXS13	DXS16	DXS22	DXS27	DXS32	DXS40
垫圈 The gasket	KXS13	KXS16	KXS22	KXS27	KXS32	KXS40
附件 Accessories	dm= 13	dm= 16	dm= 22	dm= 27	dm= 32	dm= 40
扳手 wrench	-	-	-	-	-	-

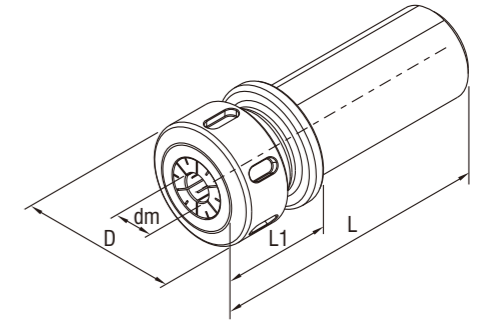
卡簧接杆
Spring rod



型号 Model	库存 Stock	dm	尺寸 Dimensions(mm)			卡簧
			D	L1	L	
C16-ER11-50(M)	○	16	16	50	77	ER11
C16-ER11-100(M)	○	16	16	100	127	ER11
C20-ER11-50(M)	○	20	22	50	85	ER16
C20-ER11-100(M)	○	20	22	100	135	ER16
C20-ER11-150(M)	○	20	22	150	185	ER16
C20-ER20-50(M)	○	20	28	50	88	ER20
C20-ER20-100(M)	○	20	28	100	138	ER20
C20-ER20-150(M)	○	20	28	150	188	ER20
C25-ER20-50(M)	○	25	28	50	88	ER20
C25-ER20-100(M)	○	25	28	100	138	ER20
C25-ER20-150(M)	○	25	28	150	188	ER20

●标准库存 Standard inventory ○订单生产 Order production

直柄弹簧夹头刀柄
Shank with straight spring collet



型号 Model	库存 Stock	dm	D	尺寸 Dimensions(mm)		卡簧
				L1	L	
C32-ER16-100	○	32	32	30	100	ER16
C32-ER20-100	○	32	34	30	100	ER20
C32-ER25-105	○	32	42	35	105	ER25
C32-ER32-120	○	32	50	50	120	ER32
C32-ER40-130	○	32	63	60	130	ER40
C40-ER16-100	○	40	32	30	100	ER16
C40-ER20-100	○	40	34	30	100	ER20
C40-ER25-105	○	40	42	35	105	ER25
C40-ER32-105	○	40	50	35	105	ER32
C40-ER40-130	○	40	63	60	130	ER40

●标准库存 Standard inventory ○订单生产 Order production

备件 Spare Parts		ER11	ER16	ER20
	螺母 nut	NER11M	NER16M	NER20M
	螺钉 screw	SER11M	SER16M	SER20M
附件 Accessories		ER11	ER16	ER20
	扳手 wrench	WER11M	WER16M	WER20M

备件 Spare Parts		ER16	ER20	ER25	ER32	ER40
	螺母 nut	NER16	NER20	NER25	NER32	NER40
	螺钉 screw	SER16	SER20	SER25	SER32	SER40
附件 Accessories		ER16	ER20	ER25	ER32	ER40
	扳手 wrench	WER16	WER20	WER25	WER32	WER40

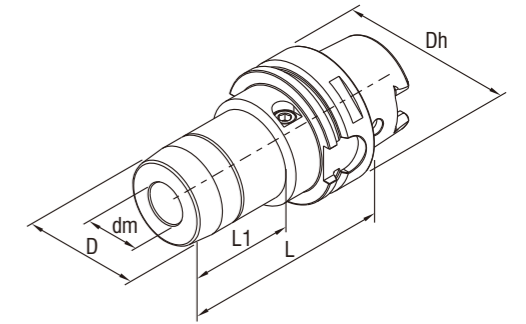
HSK 工具系统配置图

HSK Tooling System Arrangement Plan

HSK 液压刀柄 HSK ER spring collet shank	HSK 强力夹头刀柄 HSK side fixed shank	HSK 侧固式刀柄 HSK 2° side solid handle	HSK 2°侧固式刀柄 HSK strong chuck shank	HSK ER弹簧夹头刀柄 HSK hydraulic shank	
HSK 套式立铣刀刀柄 Shank for HSK sleeve end milling cutter	HSK 套式立铣刀及三面刃铣刀刀柄 Shank for side milling cutter and sleeve end milling cutter	HSK 三面刃铣刀刀柄 Shank for side milling cutter	HSK TMG21主柄模块 HSK TMG21 main handle module		

HSK 液压刀柄 (DIN 69893)

HSK Hydraulic Shank (DIN 69893)



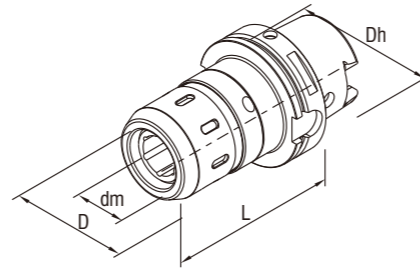
型号 Model	库存 Stock		Dh	dm	d1	尺寸 Dimensions(mm)				卡簧
						d2	L1	L		
HSK63A-HC06-80	○	HSK-A63	63	06	26	50	35	80	HC06	
HSK63A-HC08-80	○	HSK-A63	63	08	28	50	35	80	HC08	
HSK63A-HC10-80	○	HSK-A63	63	10	32	50	35	80	HC10	
HSK63A-HC12-90	○	HSK-A63	63	12	35	50	43	90	HC12	
HSK63A-HC14-95	○	HSK-A63	63	14	38	50	51	95	HC14	
HSK63A-HC16-95	○	HSK-A63	63	16	38	50	51	95	HC16	
HSK63A-HC20-95	○	HSK-A63	63	20	42	50	52	95	HC20	
HSK63A-HC25-125	○	HSK-A63	63	25	57	70	63	125	HC25	
HSK63A-HC32-125	○	HSK-A63	63	32	64	70	65	125	HC32	
HSK100A-HC06-85	○	HSK-A100	100	06	26	50	35	85	HC06	
HSK100A-HC08-85	○	HSK-A100	100	08	28	50	35	85	HC08	
HSK100A-HC10-85	○	HSK-A100	100	10	32	50	35	85	HC10	
HSK100A-HC12-95	○	HSK-A100	100	12	35	50	43	95	HC12	
HSK100A-HC14-100	○	HSK-A100	100	14	38	50	51	100	HC14	
HSK100A-HC16-100	○	HSK-A100	100	16	38	50	51	100	HC16	
HSK100A-HC20-105	○	HSK-A100	100	20	42	50	52	105	HC20	
HSK100A-HC25-110	○	HSK-A100	100	25	57	70	63	110	HC25	
HSK100A-HC32-110	○	HSK-A100	100	32	64	70	65	110	HC32	

●标准库存 Standard inventory ○订单生产 Order production

- * 如需其它型式或规格的HSK类产品请与本公司联系。
- * For other types or specifications of HSK products, please contact us.
- * HSK A型标准产品不含手动换刀孔和数据孔, 若有需要, 请在订货时说明。
- * HSK A standard product does not include manual tool change hole and data hole, if necessary, please specify when ordering.
- * 交货时包括相应备件
- * The delivery includes corresponding spare parts

附件Accessories	dm=6	dm=8	dm=10	dm=12	dm=14	dm=16	dm=20	dm=25	dm=32
扳手 wrench	WHC06	WHC08	WHC10	WHC12	WHC14	WHC16	WHC20	WHC25	WHC32
冷却液套管 Coolant casing	TU-HSK40用于Dh=40; TU-HSK50用于Dh=50; TU-HSK63用于Dh=63; TU-HSK100用于Dh=100								
扳手 wrench	W-HSK40用于Dh=40; W-HSK50用于Dh=50; W-HSK63用于Dh=63; W-HSK100用于Dh=100								

HSK 强力夹头刀柄 (DIN 69893) HSK Milling Chucks



型号 Model	库存 Stock		尺寸 Dimensions(mm)				卡簧
			Dh	dm	D	L	
HSK40A-C20-105	○	HSK-A40	40	40	52	105	C20
HSK40A-C22-105	○	HSK-A40	40	40	58	105	C20
HSK40A-C25-105	○	HSK-A40	40	40	62	105	C25
HSK50A-C20-105	○	HSK-A50	50	50	52	105	C20
HSK50A-C22-105	○	HSK-A50	50	50	58	105	C22
HSK50A-C25-105	○	HSK-A50	50	50	62	105	C25
HSK63A-C20-105	○	HSK-A63	63	63	52	105	C20
HSK63A-C20-135	○	HSK-A63	63	63	52	135	C20
HSK63A-C22-105	○	HSK-A63	63	63	58	105	C22
HSK63A-C22-135	○	HSK-A63	63	63	58	135	C22
HSK63A-C25-105	○	HSK-A63	63	63	62	105	C25
HSK63A-C25-135	○	HSK-A63	63	63	62	135	C25
HSK63A-C32-120	○	HSK-A63	63	63	72	120	C32
HSK63A-C32-150	○	HSK-A63	63	63	72	150	C32
HSK100A-C20-110	○	HSK-A100	100	100	52	110	C20
HSK100A-C20-150	○	HSK-A100	100	100	52	150	C20
HSK100A-C22-110	○	HSK-A100	100	100	58	110	C22
HSK100A-C22-150	○	HSK-A100	100	100	58	150	C22
HSK100A-C25-110	○	HSK-A100	100	100	62	110	C25
HSK100A-C25-150	○	HSK-A100	100	100	62	150	C25
HSK100A-C32-120	○	HSK-A100	100	100	72	120	C32
HSK100A-C32-150	○	HSK-A100	100	100	72	150	C32

●标准库存 Standard inventory ○订单生产 Order production

* 如需其它型式或规格的HSK类产品请与本公司联系。

* HSK A型标准产品不含手动换刀孔和数据孔，若有需要，请在订货时说明。

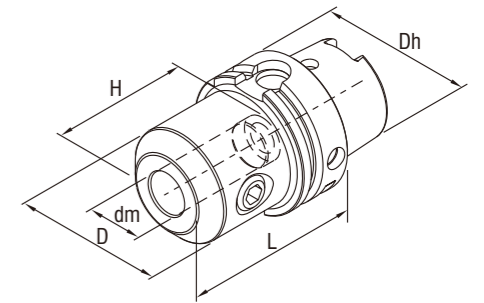
* 交货时包括相应备件

* For other types or specifications of HSK products, please contact us.

* HSK A standard product does not include manual tool change hole and data hole, if necessary, please specify when ordering.

* The delivery includes corresponding spare parts

HSK 侧固式刀柄 (DIN 69893) HSK Side Lock Holders



型号 Model	库存 Stock		尺寸 Dimensions(mm)			
			Dh	dm	D	L
HSK40A-XP06-60	○	HSK-A40	40	6	25	60
HSK40A-XP08-60	○	HSK-A40	40	8	28	60
HSK40A-XP10-60	○	HSK-A40	40	10	35	60
HSK40A-XP12-70	○	HSK-A40	40	12	42	70
HSK40A-XP16-75	○	HSK-A40	40	16	48	75
HSK50A-XP06-65	○	HSK-A50	50	6	25	65
HSK50A-XP08-65	○	HSK-A50	50	8	28	65
HSK50A-XP10-65	○	HSK-A50	50	10	35	65
HSK50A-XP12-80	○	HSK-A50	50	12	42	80
HSK50A-XP16-80	○	HSK-A50	50	16	48	80
HSK50A-XP20-80	○	HSK-A50	50	20	50	80
HSK63A-XP06-65	○	HSK-A63	63	6	25	65
HSK63A-XP06-120	○	HSK-A63	63	6	25	120
HSK63A-XP06-160	○	HSK-A63	63	6	25	160
HSK63A-XP08-65	○	HSK-A63	63	8	28	65
HSK63A-XP08-120	○	HSK-A63	63	8	28	120
HSK63A-XP08-160	○	HSK-A63	63	8	28	160
HSK63A-XP10-65	○	HSK-A63	63	10	35	65
HSK63A-XP10-120	○	HSK-A63	63	10	35	120
HSK63A-XP10-160	○	HSK-A63	63	10	35	160
HSK63A-XP12-80	○	HSK-A63	63	12	42	80
HSK63A-XP12-120	○	HSK-A63	63	12	42	120
HSK63A-XP12-160	○	HSK-A63	63	12	42	160
HSK63A-XP16-80	○	HSK-A63	63	16	48	80
HSK63A-XP16-120	○	HSK-A63	63	16	48	120
HSK63A-XP16-160	○	HSK-A63	63	16	48	160
HSK63A-XP20-80	○	HSK-A63	63	20	52	80
HSK63A-XP20-120	○	HSK-A63	63	20	52	120
HSK63A-XP20-160	○	HSK-A63	63	20	52	160
HSK63A-XP25-110	○	HSK-A63	63	25	65	110
HSK63A-XP25-160	○	HSK-A63	63	25	65	160
HSK63A-XP32-110	○	HSK-A63	63	32	72	110
HSK63A-XP32-160	○	HSK-A63	63	32	72	160

●标准库存 Standard inventory ○订单生产 Order production

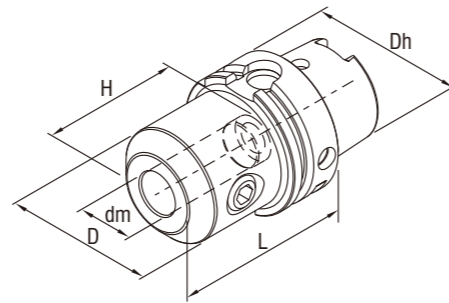
* 交货时包括相应备件

* The delivery includes corresponding spare parts

附件 Accessories	C20	C22	C25	C32
扳手 wrench	WER32	WER32	WER40	WER40
冷却液套管 Coolant casing	TU-HSK40用于Dh=40; TU-HSK50用于Dh=50; TU-HSK63用于Dh=63; TU-HSK100用于Dh=100			
扳手 wrench	W-HSK40用于Dh=40; W-HSK50用于Dh=50; W-HSK63用于Dh=63; W-HSK100用于Dh=100			

HSK 侧固式刀柄 (DIN 69893)

HSK Side Lock Holders



型号 Model	库存 Stock	HSK-A100	尺寸 Dimensions(mm)				
			Dh	dm	D	L	H
HSK100A-XP06-80	○	HSK-A100	100	6	25	80	
HSK100A-XP06-120	○	HSK-A100	100	6	25	120	
HSK100A-XP06-160	○	HSK-A100	100	6	25	160	
HSK100A-XP08-80	○	HSK-A100	100	8	28	80	
HSK100A-XP08-120	○	HSK-A100	100	8	28	120	
HSK100A-XP08-160	○	HSK-A100	100	8	28	160	
HSK100A-XP10-80	○	HSK-A100	100	10	35	80	
HSK100A-XP10-120	○	HSK-A100	100	10	35	120	
HSK100A-XP10-160	○	HSK-A100	100	10	35	160	
HSK100A-XP12-80	○	HSK-A100	100	12	42	80	
HSK100A-XP12-120	○	HSK-A100	100	12	42	120	
HSK100A-XP12-160	○	HSK-A100	100	12	42	160	
HSK100A-XP16-100	○	HSK-A100	100	16	48	100	
HSK100A-XP16-160	○	HSK-A100	100	16	48	160	
HSK100A-XP20-100	○	HSK-A100	100	20	52	100	
HSK100A-XP20-160	○	HSK-A100	100	20	52	160	
HSK100A-XP25-100	○	HSK-A100	100	25	65	100	
HSK100A-XP25-160	○	HSK-A100	100	25	65	160	
HSK100A-XP32-100	○	HSK-A100	100	32	72	100	
HSK100A-XP32-160	○	HSK-A100	100	32	72	160	
HSK100A-XP40-120	○	HSK-A100	100	40	84	120	
HSK100A-XP40-160	○	HSK-A100	100	40	84	160	

●标准库存 Standard inventory ○订单生产 Order production

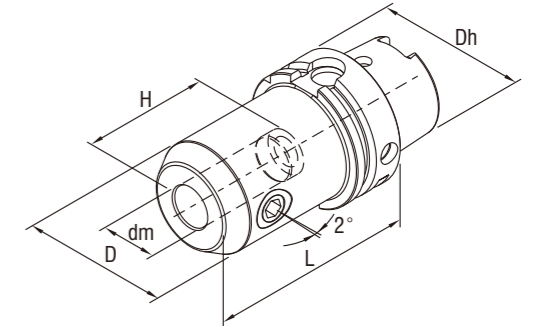
* 交货时包括相应备件

* The delivery includes corresponding spare parts

备件 Spare Parts	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32	dm=40
螺钉 screw	SXP06	SXP08	SXP10	SXP12	SXP16	SXP20	SXP25	SXP32	SXP40
扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10	S10
冷却液套管 Coolant casing	TU-HSK40用于 Dh=40 ; TU-HSK50用于 Dh=50 ; TU-HSK63用于 Dh=63 ; TU-HSK100用于 Dh=100								
扳手 wrench	W-HSK40用于 Dh=40 ; W-HSK50用于 Dh=50 ; W-HSK63用于 Dh=63 ; W-HSK100用于 Dh=100								

HSK 2°侧固式刀柄 (DIN 69893)

HSK 2° Side Lock Holders



型号 Model	库存 Stock	HSK-A40	尺寸 Dimensions(mm)				
			Dh	dm	D	L	H
HSK40A-XP06-80	○	HSK-A40	40	6	25	80	
HSK40A-XP08-80	○	HSK-A40	40	8	28	80	
HSK40A-XP10-80	○	HSK-A40	40	10	35	80	
HSK40A-XP12-90	○	HSK-A40	40	12	42	90	
HSK40A-XP16-90	○	HSK-A40	40	16	48	90	
HSK50A-XP06-80	○	HSK-A50	50	6	25	80	
HSK50A-XP08-80	○	HSK-A50	50	8	28	80	
HSK50A-XP10-80	○	HSK-A50	50	10	35	80	
HSK50A-XP12-90	○	HSK-A50	50	12	42	90	
HSK50A-XP16-90	○	HSK-A50	50	16	48	90	
HSK50A-XP20-100	○	HSK-A50	50	20	52	100	
HSK63A-XP06-80	○	HSK-A63	63	6	25	80	
HSK63A-XP06-120	○	HSK-A63	63	6	25	120	
HSK63A-XP06-160	○	HSK-A63	63	6	25	160	
HSK63A-XP08-80	○	HSK-A63	63	8	28	80	
HSK63A-XP08-120	○	HSK-A63	63	8	28	120	
HSK63A-XP08-160	○	HSK-A63	63	8	28	160	
HSK63A-XP10-80	○	HSK-A63	63	10	35	80	
HSK63A-XP10-120	○	HSK-A63	63	10	35	120	
HSK63A-XP10-160	○	HSK-A63	63	10	35	160	
HSK63A-XP12-90	○	HSK-A63	63	12	42	90	
HSK63A-XP12-120	○	HSK-A63	63	12	42	120	
HSK63A-XP12-160	○	HSK-A63	63	12	42	160	
HSK63A-XP16-100	○	HSK-A63	63	16	48	100	
HSK63A-XP16-160	○	HSK-A63	63	16	48	160	
HSK63A-XP20-100	○	HSK-A63	63	20	52	100	
HSK63A-XP20-160	○	HSK-A63	63	20	52	160	
HSK63A-XP25-110	○	HSK-A63	63	25	65	110	
HSK63A-XP25-160	○	HSK-A63	63	25	65	160	
HSK63A-XP32-110	○	HSK-A63	63	32	72	110	
HSK63A-XP32-160	○	HSK-A63	63	32	72	160	

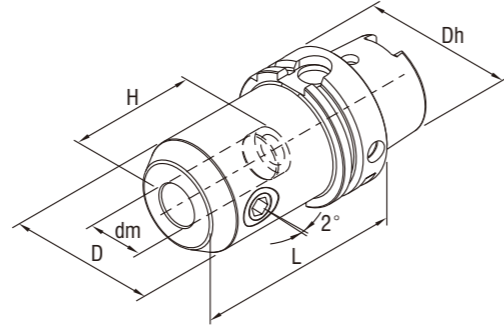
●标准库存 Standard inventory ○订单生产 Order production

* 交货时包括相应备件

* The delivery includes corresponding spare parts

HSK 2°侧固式刀柄 (DIN 69893)

HSK 2° Side Lock Holders



型号 Model	库存 Stock		尺寸 Dimensions(mm)	Dh	dm	D	L	H
HSK100A-XPD06-90	○	HSK-A100		100	6	25	90	
HSK100A-XPD06-120	○	HSK-A100		100	6	25	120	
HSK100A-XPD06-160	○	HSK-A100		100	6	25	160	
HSK100A-XPD08-90	○	HSK-A100		100	8	28	90	
HSK100A-XPD08-120	○	HSK-A100		100	8	28	120	
HSK100A-XPD08-160	○	HSK-A100		100	8	28	160	
HSK100A-XPD10-90	○	HSK-A100		100	10	35	90	
HSK100A-XPD10-120	○	HSK-A100		100	10	35	120	
HSK100A-XPD10-160	○	HSK-A100		100	10	35	160	
HSK100A-XPD12-100	○	HSK-A100		100	12	42	100	
HSK100A-XPD12-160	○	HSK-A100		100	12	42	160	
HSK100A-XPD16-100	○	HSK-A100		100	16	48	100	
HSK100A-XPD16-160	○	HSK-A100		100	16	48	160	
HSK100A-XPD20-110	○	HSK-A100		100	20	52	110	
HSK100A-XPD20-160	○	HSK-A100		100	20	52	160	
HSK100A-XPD25-120	○	HSK-A100		100	25	65	120	
HSK100A-XPD25-160	○	HSK-A100		100	25	65	160	
HSK100A-XPD32-120	○	HSK-A100		100	32	72	120	
HSK100A-XPD32-160	○	HSK-A100		100	32	72	160	

●标准库存 Standard inventory ○订单生产 Order production

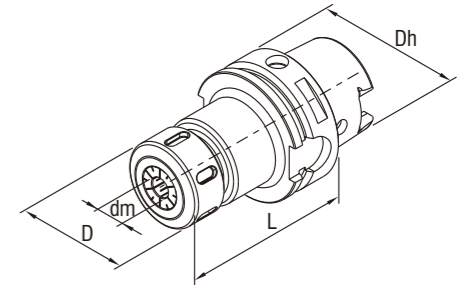
* 交货时包括相应备件

* The delivery includes corresponding spare parts

备件Spare Parts	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32
螺钉 screw	SXPD06	SXPD08	SXPD10	SXPD12	SXPD16	SXPD20	SXPD25	SXPD32
扳手 wrench	S3	S4	S5	S6	S6	S8	S8	S10
冷却液套管 Coolant casing	TU-HSK 40 用于 Dh=40; TU-HSK50用于Dh=50; TU-HSK63用于Dh=63; TU-HSK100用于Dh=100							
扳手 wrench	W-HSK40 用于Dh=40; W-HSK50用于Dh=50; W-HSK63用于Dh=63; W-HSK100用于Dh=100							

HSK ER弹簧夹头刀柄 (DIN 69893)

HSK ER Collet Chucks



型号 Model	库存 Stock		尺寸 Dimensions(mm)	Dh	dm	D	L	卡簧
HSK40A-ER11-80	○	HSK-A40		40	0.5~7	23	80	ER11
HSK40A-ER11-100	○	HSK-A40		40	0.5~7	23	100	ER11
HSK40A-ER16-80	○	HSK-A40		40	0.5~10	32	80	ER16
HSK40A-ER16-100	○	HSK-A40		40	0.5~10	32	100	ER16
HSK40A-ER20-80	○	HSK-A40		40	1.0~12	34	80	ER20
HSK40A-ER20-100	○	HSK-A40		40	1.0~12	34	100	ER20
HSK40A-ER25-80	○	HSK-A40		40	1.0~16	42	80	ER25
HSK40A-ER25-100	○	HSK-A40		40	1.0~16	42	100	ER25
HSK40A-ER32-80	○	HSK-A40		40	2.0~20	50	80	ER32
HSK40A-ER32-100	○	HSK-A40		40	2.0~20	50	100	ER32
HSK50A-ER11-80	○	HSK-A50		50	0.5~7	23	80	ER11
HSK50A-ER11-100	○	HSK-A50		50	0.5~7	23	100	ER11
HSK50A-ER11-120	○	HSK-A50		50	0.5~7	23	120	ER11
HSK50A-ER16-80	○	HSK-A50		50	0.5~10	32	80	ER16
HSK50A-ER16-100	○	HSK-A50		50	0.5~10	32	100	ER16
HSK50A-ER16-120	○	HSK-A50		50	0.5~10	32	120	ER16
HSK50A-ER20-80	○	HSK-A50		50	1.0~12	34	80	ER20
HSK50A-ER20-100	○	HSK-A50		50	1.0~12	34	100	ER20
HSK50A-ER20-120	○	HSK-A50		50	1.0~12	34	120	ER20
HSK50A-ER25-80	○	HSK-A50		50	1.0~16	42	80	ER25
HSK50A-ER25-100	○	HSK-A50		50	1.0~16	42	100	ER25
HSK50A-ER25-120	○	HSK-A50		50	1.0~16	42	120	ER25
HSK50A-ER32-80	○	HSK-A50		50	2.0~20	50	80	ER32
HSK50A-ER32-100	○	HSK-A50		50	2.0~20	50	100	ER32
HSK50A-ER32-120	○	HSK-A50		50	2.0~20	50	120	ER32

* 需中心通油的螺钉, 请在订货时注明。

●标准库存 Standard inventory ○订单生产 Order production

* 交货时包括相应备件

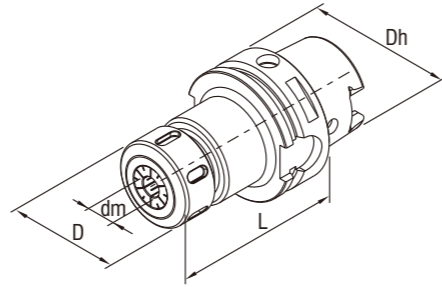
* The delivery includes corresponding spare parts

* The screw that needs center to pass oil, please indicate when ordering.

备件Spare Parts	ER11	ER16	ER20	ER25	ER32	ER40
螺母 nut	NER11	NER16	NER20	NER25	NER32	NER40
螺钉 screw	SER11	SER16	SER20	SER25	SER32	SER40
扳手 wrench	WER11	WER16	WER20	WER25	WER32	WER40
冷却液套管 Coolant casing	TU-HSK40用于Dh=40; TU-HSK50用于Dh=50; TU-HSK63用于Dh=63; TU-HSK100用于Dh=100					
扳手 wrench	W-HSK40用于Dh=40; W-HSK50用于Dh=50; W-HSK63用于Dh=63; W-HSK100用于Dh=100					

HSK ER弹簧夹头刀柄 (DIN 69893)

HSK ER Collet Chucks



型号 Model	库存 Stock		Dh	dm	尺寸 Dimensions(mm)		卡簧
					D	L	
HSK63A-ER11-75	○	HSK-A63	63	0.5~7	23	75	ER11
HSK63A-ER16-80	○	HSK-A63	63	0.5~10	32	80	ER16
HSK63A-ER16-100	○	HSK-A63	63	0.5~10	32	100	ER16
HSK63A-ER16-120	○	HSK-A63	63	0.5~10	32	120	ER16
HSK63A-ER16-160	○	HSK-A63	63	0.5~10	32	160	ER16
HSK63A-ER20-80	○	HSK-A63	63	1.0~12	34	80	ER20
HSK63A-ER20-100	○	HSK-A63	63	1.0~12	34	100	ER20
HSK63A-ER20-120	○	HSK-A63	63	1.0~12	34	120	ER20
HSK63A-ER20-160	○	HSK-A63	63	1.0~12	34	160	ER20
HSK63A-ER25-80	○	HSK-A63	63	1.0~16	42	80	ER25
HSK63A-ER25-100	○	HSK-A63	63	1.0~16	42	100	ER25
HSK63A-ER25-120	○	HSK-A63	63	1.0~16	42	120	ER25
HSK63A-ER25-160	○	HSK-A63	63	1.0~16	42	160	ER25
HSK63A-ER32-80	○	HSK-A63	63	2.0~20	50	80	ER32
HSK63A-ER32-100	○	HSK-A63	63	2.0~20	50	100	ER32
HSK63A-ER32-120	○	HSK-A63	63	2.0~20	50	120	ER32
HSK63A-ER32-160	○	HSK-A63	63	2.0~20	50	160	ER32
HSK63A-ER40-80	○	HSK-A63	63	3.0~26	63	80	ER40
HSK63A-ER40-100	○	HSK-A63	63	3.0~26	63	100	ER40
HSK63A-ER40-120	○	HSK-A63	63	3.0~26	63	120	ER40
HSK63A-ER40-160	○	HSK-A63	63	3.0~26	63	160	ER40
HSK100A-ER16-100	○	HSK-A100	100	0.5~10	32	100	ER16
HSK100A-ER16-120	○	HSK-A100	100	0.5~10	32	120	ER16
HSK100A-ER16-160	○	HSK-A100	100	0.5~10	32	160	ER16
HSK100A-ER20-100	○	HSK-A100	100	1.0~12	34	100	ER20
HSK100A-ER20-120	○	HSK-A100	100	1.0~12	34	120	ER20
HSK100A-ER20-160	○	HSK-A100	100	1.0~12	34	160	ER20
HSK100A-ER25-100	○	HSK-A100	100	1.0~16	42	100	ER25
HSK100A-ER25-120	○	HSK-A100	100	1.0~16	42	120	ER25
HSK100A-ER25-160	○	HSK-A100	100	1.0~16	42	160	ER25
HSK100A-ER32-100	○	HSK-A100	100	2.0~20	50	100	ER32
HSK100A-ER32-120	○	HSK-A100	100	2.0~20	50	120	ER32
HSK100A-ER32-160	○	HSK-A100	100	2.0~20	50	160	ER32
HSK100A-ER40-100	○	HSK-A100	100	3.0~26	63	100	ER40
HSK100A-ER40-120	○	HSK-A100	100	3.0~26	63	120	ER40
HSK100A-ER40-160	○	HSK-A100	100	3.0~26	63	160	ER40

* 需中心通油的螺钉, 请在订货时注明。

●标准库存 Standard inventory ○订单生产 Order production

* 交货时包括相应备件

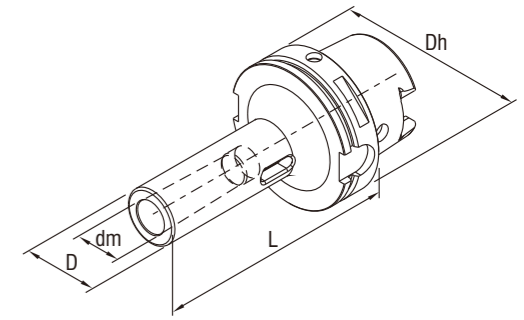
* The delivery includes corresponding spare parts

* The screw that needs center to pass oil, please indicate when ordering.

备件 Spare Parts		ER11	ER16	ER20	ER25	ER32	ER40
	螺母 nut	NER11	NER16	NER20	NER25	NER32	NER40
	螺钉 screw	SER11	SER16	SER20	SER25	SER32	SER40
附件 Accessories		ER11	ER16	ER20	ER25	ER32	ER40
	扳手 wrench	WER11	WER16	WER20	WER25	WER32	WER40
	冷却液套管 Coolant casing	TU-HSK40用于 Dh=40 ; TU-HSK50用于 Dh=50 ; TU-HSK63用于 Dh=63 ; TU-HSK100用于 Dh=100					
	扳手 wrench	W-HSK40用于 Dh=40 ; W-HSK50用于 Dh=50 ; W-HSK63用于 Dh=63 ; W-HSK100用于 Dh=100					

HSK 有扁尾莫式圆锥孔刀柄 (DIN 69893)

HSK Morse Taper Holders With Tang



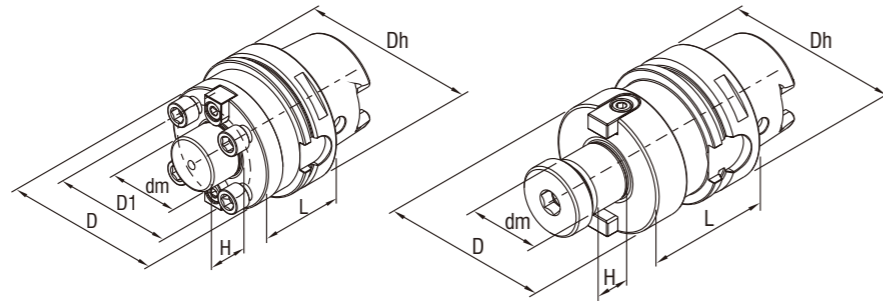
型号 Model	库存 Stock		莫氏圆锥孔	对应安装 钻头直径(mm)	Dh	尺寸 Dimensions(mm)		
						dm	D	L
HSK40A-M1-90	○	HSK-A40	MT1	3-14	40	25	12.065	90
HSK40A-M2-105	○	HSK-A40	MT2	14-23	40	32	17.780	105
HSK50A-M1-100	○	HSK-A50	MT1	3-14	50	25	12.065	100
HSK50A-M2-120	○	HSK-A50	MT2	14-23	50	32	17.780	120
HSK50A-M3-140	○	HSK-A50	MT3	23-32	50	40	23.825	140
HSK63A-M1-100	○	HSK-A63	MT1	3-14	63	25	12.065	100
HSK63A-M2-120	○	HSK-A63	MT2	14-23	63	32	17.780	120
HSK63A-M3-140	○	HSK-A63	MT3	23-32	63	40	23.825	140
HSK63A-M4-160	○	HSK-A63	MT4	32-50	63	48	31.267	160
HSK100A-M1-110	○	HSK-A100	MT1	3-14	100	25	12.065	110
HSK100A-M2-120	○	HSK-A100	MT2	14-23	100	32	17.780	120
HSK100A-M3-150	○	HSK-A100	MT3	23-32	100	40	23.825	150
HSK100A-M4-170	○	HSK-A100	MT4	32-50	100	48	31.267	170
HSK100A-M5-200	○	HSK-A100	MT5	50-57	100	63	44.399	200

●标准库存 Standard inventory ○订单生产 Order production

附件 Accessories		Dh=40	Dh=50	Dh=63	Dh=100
	冷却液套管 Coolant casing	TU-HSK40	TU-HSK50	TU-HSK63	TU-HSK100
	扳手 wrench	W-HSK40	W-HSK50	W-HSK63	W-HSK100

HSK 套式立铣刀刀柄 (DIN 69893)

HSK Shell Mill Holders

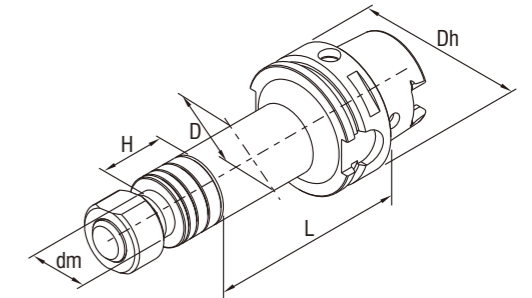


型号 Model	库存 Stock		尺寸 Dimensions(mm)					
			Dh	dm	D	D1	L	H
HSK40A-XM16-50	○	HSK-A40	40	16	40	-	50	17
HSK40A-XM22-50	○	HSK-A40	40	22	50	-	50	19
HSK40A-XM27-60	○	HSK-A40	40	27	60	-	60	21
HSK50A-XM16-50	○	HSK-A50	50	16	40	-	50	17
HSK50A-XM22-60	○	HSK-A50	50	22	50	-	60	19
HSK50A-XM27-60	○	HSK-A50	50	27	60	-	60	21
HSK63A-XM16-50	○	HSK-A63	63	16	40	-	50	17
HSK63A-XM16-100	○	HSK-A63	63	16	40	-	100	17
HSK63A-XM16-145	○	HSK-A63	63	16	40	-	145	17
HSK63A-XM22-50	○	HSK-A63	63	22	50	-	50	19
HSK63A-XM22-100	○	HSK-A63	63	22	50	-	100	19
HSK63A-XM22-160	○	HSK-A63	63	22	50	-	160	19
HSK63A-XM27-60	○	HSK-A63	63	27	60	-	60	21
HSK63A-XM27-100	○	HSK-A63	63	27	60	-	100	21
HSK63A-XM27-160	○	HSK-A63	63	27	60	-	160	21
HSK63A-XM32-60	○	HSK-A63	63	32	78	-	60	24
HSK63A-XM32-100	○	HSK-A63	63	32	78	-	100	24
HSK63A-XM32-160	○	HSK-A63	63	32	78	-	160	24
HSK63A-XM40-60	○	HSK-A63	63	40	89	66.7	60	27
HSK100A-XM22-50	○	HSK-A100	100	22	50	-	50	19
HSK100A-XM22-100	○	HSK-A100	100	22	50	-	100	19
HSK100A-XM27-50	○	HSK-A100	100	27	60	-	50	21
HSK100A-XM27-100	○	HSK-A100	100	27	60	-	100	21
HSK100A-XM27-160	○	HSK-A100	100	27	60	-	160	21
HSK100A-XM32-50	○	HSK-A100	100	32	78	-	50	24
HSK100A-XM32-100	○	HSK-A100	100	32	78	-	100	24
HSK100A-XM32-160	○	HSK-A100	100	32	78	-	160	24
HSK100A-XM40-60	○	HSK-A100	100	40	89	66.7	60	27
HSK100A-XM40-100	○	HSK-A100	100	40	89	66.7	100	27
HSK100A-XM40-160	○	HSK-A100	100	40	89	66.7	160	27

●标准库存 Standard inventory ○订单生产 Order production

HSK 三面刃铣刀刀柄 (DIN 69893)

HSK Slotting Cutter Holders



型号 Model	库存 Stock		尺寸 Dimensions(mm)				
			Dh	dm	D	L	H
HSK40A-XS13-75	○	HSK-A40	40	13	20	75	15
HSK40A-XS16-75	○	HSK-A40	40	16	26	75	16
HSK40A-XS22-75	○	HSK-A40	40	22	34	75	21
HSK50A-XS13-75	○	HSK-A50	50	13	20	75	15
HSK50A-XS16-75	○	HSK-A50	50	16	26	75	16
HSK50A-XS22-75	○	HSK-A50	50	22	34	75	21
HSK63A-XS13-75	○	HSK-A63	63	13	20	75	15
HSK63A-XS13-105	○	HSK-A63	63	13	20	105	15
HSK63A-XS16-90	○	HSK-A63	63	16	26	90	16
HSK63A-XS16-120	○	HSK-A63	63	16	26	120	16
HSK63A-XS22-90	○	HSK-A63	63	22	34	90	21
HSK63A-XS22-135	○	HSK-A63	63	22	34	135	21
HSK63A-XS27-90	○	HSK-A63	63	27	40	90	25
HSK63A-XS27-135	○	HSK-A63	63	27	40	135	25
HSK63A-XS32-90	○	HSK-A63	63	32	46	90	30
HSK63A-XS32-135	○	HSK-A63	63	32	46	135	30
HSK100A-XS13-75	○	HSK-A100	100	13	20	75	15
HSK100A-XS13-105	○	HSK-A100	100	13	20	75	15
HSK100A-XS16-90	○	HSK-A100	100	16	26	90	16
HSK100A-XS16-120	○	HSK-A100	100	16	26	120	16
HSK100A-XS22-90	○	HSK-A100	100	22	34	90	21
HSK100A-XS22-135	○	HSK-A100	100	22	34	135	21
HSK100A-XS27-90	○	HSK-A100	100	27	40	90	25
HSK100A-XS27-135	○	HSK-A100	100	27	40	135	25
HSK100A-XS32-90	○	HSK-A100	100	32	46	90	30
HSK100A-XS32-135	○	HSK-A100	100	32	46	135	30
HSK100A-XS40-90	○	HSK-A100	100	40	55	90	36
HSK100A-XS40-135	○	HSK-A100	100	40	55	135	36

●标准库存 Standard inventory ○订单生产 Order production

* 交货时包括相应备件

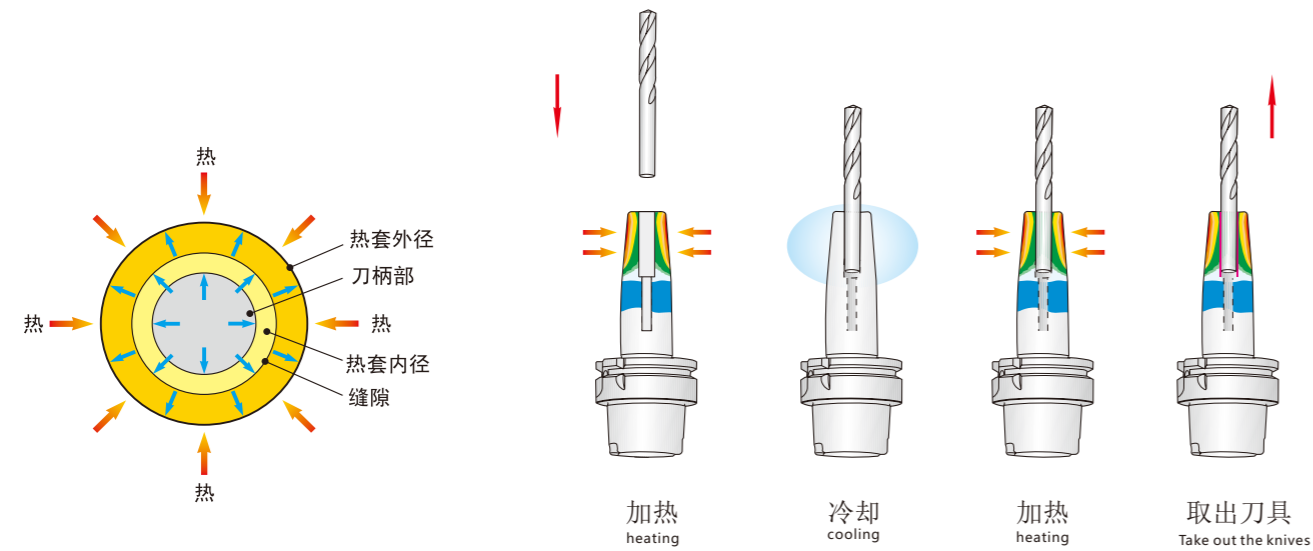
* The delivery includes corresponding spare parts

备件 Spare Parts	dm=16	dm=22	dm=27	dm=32	dm=40
紧定螺钉 Set screw	SXM16	SXM22	SXM27	SXM32	SXM40
键 key	KXM16	KXM22	KXM27	KXM32	KXM40
附件 Accessories	dm=16	dm=22	dm=27	dm=32	dm=40
扳手 wrench	S6	S8	S10	S14	S17

备件 Spare Parts	dm=13	dm=16	dm=22	dm=27	dm=32	dm=40
紧定螺钉 Set screw	NXS13	NXS16	NXS22	NXS27	NXS32	NXS40
键 key	DXS13	DXS16	DXS22	DXS27	DXS32	DXS40
垫圈 The gasket	KXS13	KXS16	KXS22	KXS27	KXS32	KXS40
附件 Accessories	dm=13	dm=16	dm=22	dm=27	dm=32	dm=40
扳手 wrench	-	-	-	-	-	-

热套原理

Heat set of principles



概念:

- 热装工具系统是利用热胀冷缩的原理,用热感应装置使刀柄的夹持部分在短时间内加热刀柄内径随之扩张,此时立即把刀具装入刀柄内。刀柄冷却收缩时,即可赋予刀具夹持面均匀的压力,从而产生很高的径向夹紧力将工具牢牢夹持住,刀具和刀柄间不介入任何机械夹持部件。
- 热装工具系统可解决高速高精加工中极为重要的平衡、振摆精度及夹紧强度等问题。

Concept:

The mouth hot charging tool system makes use of the principle of thermal expansion and cold contraction, and uses the thermal sensing device to make the clamping part of the handle in a short time. The inner diameter of the heated handle expands accordingly, at which point the cutter is immediately loaded into the handle. When the shank is cooled and contracted. You can assign uniform pressure on the tool clamping surface, resulting in a high radial clamping force to firmly grip the tool. The cutting tool and handle = There is no mechanical clamping part between the shank.
 O Hot loading tool systems address the critical balance in high speed and high finish machining. Vibration precision and clamping strength and other problems.

热装刀柄的优点:

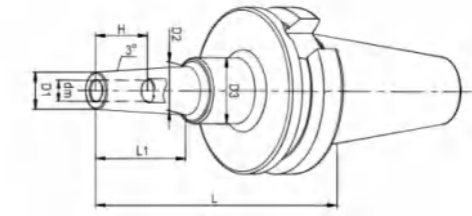
- 均匀的夹持力使刀具的跳动非常高 ($\leq 0.003\text{mm}$)。
- 夹紧力大
- 结构紧凑对称、外形尺寸小
- 能适应高速回转
- 适用于精加工和粗加工。
- 刀具柄部于夹套之间完全牢固连接,冷却液只能从冷却孔流向刀具。
- 热装夹技术可以提高切削速度和进给率,同时改善加工表面的粗糙度。使刀具和主轴寿命增加。

Advantages of hot loading handle:

Uniform clamping force makes the cutter jump very high ($\leq 0.003\text{mm}$).
 Clamping force is big
 Compact and symmetrical structure, small size
 Can adapt to high speed rotation
 Suitable for finishing and rough machining.
 The tool shank part is firmly connected between the jacket, coolant can only be from the cooling hole flows to the cutter.
 Hot clamping technology can increase cutting speed and feed rate while improving Roughness of machined surface. Increase the life of the tool and spindle.

热装刀柄

Hot charging handle



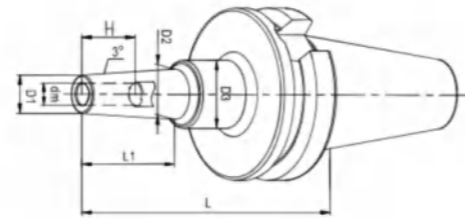
型号 Model	库存 Stock	柄径公差 Tolerance	尺寸 Dimensions(mm)								
			dm	L	L1	D1	D2	D3	H		
JIS B6339-AD		h6									
BT30-ST03EA42-95	○	30	3	95	42	6	10.4	25	9		
BT30-ST03EA67-120	○	30	3	120	67	6	13	25	9		
BT30-ST04EA42-95	○	30	4	95	42	7	11.4	25	12		
BT30-ST04EA67-120	○	30	4	120	67	7	14	25	12		
BT30-ST06EA42-95	○	30	6	95	42	9	13.4	25	18		
BT30-ST06EA67-120	○	30	6	120	67	9	16	25	18		
BT30-ST08EA42-95	○	30	8	95	42	11	15.4	25	24		
BT30-ST08EA67-120	○	30	8	120	67	11	18	32	24		
BT30-ST10EA42-95	○	30	10	95	42	13	17.4	25	30		
BT30-ST10EA67-120	○	30	10	120	67	13	20	32	30		

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6



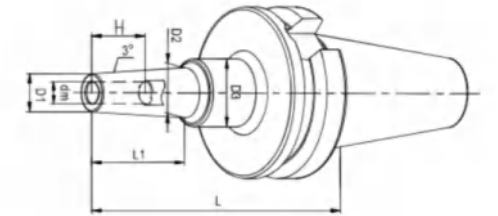
型号 Model	库存 Stock	尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
JIS B6339-AD									
BT40-ST03EA42-95	○	40	3	95	42	6	10.4	25	9
BT40-ST03EA67-120	○	40	3	120	67	6	13	25	9
BT40-ST03XA42-95	○	40	3	95	42	7.5	11.9	25	9
BT40-ST03XA67-120	○	40	3	120	67	7.5	14.5	25	9
BT40-ST04EA42-95	○	40	4	95	42	7	11.4	25	12
BT40-ST04EA67-120	○	40	4	120	67	7	14	25	12
BT40-ST04EA97-150	○	40	4	150	97	7	17.2	25	12
BT40-ST04EA97-180	○	40	4	180	97	7	17.2	25	12
BT40-ST04XA42-95	○	40	4	120	67	10	14.4	25	12
BT40-ST04XA67-120	○	40	4	150	97	10	17	25	12
BT40--ST04XA97-150	○	40	4	180	127	10	20.2	25	12
BT40--ST04XA127-180	○	40	4	120	67	10	23.3	32	12
BT40-ST06EA42-95	○	40	6	95	42	9	13.4	25	18
BT40-ST06EA67-120	○	40	6	120	67	9	16	25	18
BT40-ST06EA97-150	○	40	6	150	97	9	19.2	32	18
BT40-ST06EA97-180	○	40	6	180	97	9	19.2	32	18
BT40-ST06EB42-95	○	40	6	95	42	10	14.4	25	18
BT40-ST06EB67-120	○	40	6	120	67	10	17	25	18
BT40-ST06EB97-150	○	40	6	150	97	10	20.2	32	18
BT40-ST06EB127-180	○	40	6	180	127	10	23.2	32	18
BT40-ST08EA42-95	○	40	8	95	42	11	15.4	25	24
BT40-ST08EA67-120	○	40	8	120	67	11	18	32	24
BT40--ST08EA97-150	○	40	8	150	97	11	21.2	32	24
BT40-ST08EA97-180	○	40	8	180	97	11	21.2	32	24
BT40-ST08EB42-95	○	40	8	95	42	13	17.4	32	24

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6



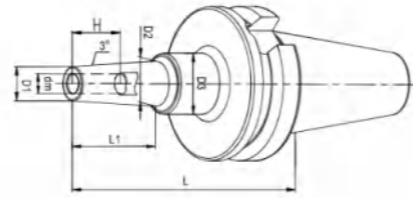
型号 Model	库存 Stock	尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
JIS B6339-AD									
BT40-ST08EB67-120	○	40	8	120	67	13	20	32	24
BT40-ST08EB97-150	○	40	8	150	97	13	23.2	32	24
BT40-ST08EB127-180	○	40	8	180	127	13	26.3	32	24
BT40-ST10EA42-95	○	40	10	95	42	13	17.4	25	30
BT40-ST10EA67-120	○	40	10	120	67	13	20	32	30
BT40-ST10EA97-150	○	40	10	150	97	13	23.2	32	30
BT40-ST10EA97-180	○	40	10	180	97	13	23.2	32	30
BT40-ST10EB42-95	○	40	10	95	42	16	20.4	25	30
BT40-ST10EB67-120	○	40	10	120	67	16	23	25	30
BT40-ST10EB97-150	○	40	10	150	97	16	26.2	32	30
BT40-ST10EB127-180	○	40	10	180	127	16	29.3	42	30
BT40-ST12EA42-95	○	40	12	95	42	15	19.4	32	30
BT40-ST12EA67-120	○	40	12	120	67	15	22	32	30
BT40-ST12EA97-150	○	40	12	150	97	15	25.2	32	30
BT40-ST12EA97-180	○	40	12	180	97	15	25.2	32	30
BT40-ST12EB42-95	○	40	12	95	42	19	23.4	25	30
BT40-ST12EB67-120	○	40	12	120	67	19	26	25	30
BT40-ST12EB97-150	○	40	12	150	97	19	29.2	32	30
BT40-ST12EB127-180	○	40	12	180	127	19	32.3	42	30

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6



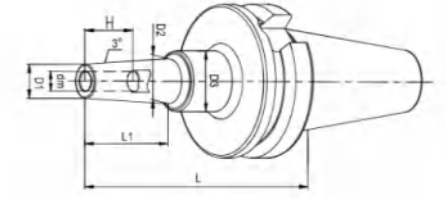
型号 Model	库存 Stock	尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
JIS B6339-AD									
BT50-ST03EA42-110	○	50	3	110	42	6	10.4	25	9
BT50-ST03EA67-135	○	50	3	135	67	6	13	25	9
BT50-ST03XA42-110	○	50	3	110	42	7.5	11.9	25	9
BT50-ST03XA67-135	○	50	3	135	67	7.5	14.5	25	9
BT50--ST04EA42-110	○	50	4	110	42	7	11.4	25	12
BT50-ST04EA67-135	○	50	4	135	67	7	14	25	12
BT50-ST04EA97-165	○	50	4	165	97	7	17.2	25	12
BT50-ST04EA97-195	○	50	4	195	97	7	17.2	25	12
BT50-ST04XA42-110	○	50	4	195	67	10	14.4	25	12
BT50-ST04XA67-135	○	50	4	110	97	10	17	25	12
BT50-ST04XA97-165	○	50	4	135	127	10	20.2	25	12
BT50-ST04XA127-195	○	50	4	165	67	10	23.3	32	12
BT50--ST06EA42-110	○	50	6	195	42	9	13.4	25	18
BT50-ST06EA67-135	○	50	6	110	67	9	16	25	18
BT50--ST06EA97-165	○	50	6	135	97	9	19.2	32	18
BT50--ST06EA97-195	○	50	6	165	97	9	19.2	32	18
BT50-ST06EB42-110	○	50	6	195	42	10	14.4	25	18
BT50--ST06EB67-135	○	50	6	110	67	10	17	25	18
BT50-ST06EB97-165	○	50	6	135	97	10	20.2	32	18
BT50-ST06EB127-195	○	50	6	165	127	10	23.2	32	18
8T50-ST08EA42-110	○	50	8	195	42	11	15.4	25	24
BT50--ST08EA67-135	○	50	8	110	67	11	18	32	24
BT50-ST08EA97-165	○	50	8	135	97	11	21.2	32	24
BT50-ST08EA97-195	○	50	8	165	97	11	21.2	32	24
BT50--ST08EB42-110	○	50	8	195	42	13	17.4	32	24

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6



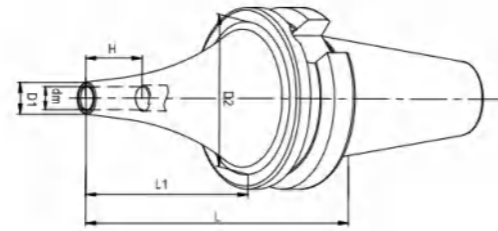
型号 Model	库存 Stock	尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
JIS B6339-AD									
BT50-ST08EB67-135	○	50	8	135	67	13	20	32	24
BT50-ST08EB97-165	○	50	8	165	97	13	23.2	32	24
BT50-ST08EB127-195	○	50	8	195	127	13	26.3	32	24
BT50-ST10EA42-110	○	50	10	110	42	13	17.4	25	30
BT50-ST10EA67-135	○	50	10	135	67	13	20	32	30
BT50-ST10EA97-165	○	50	10	165	97	13	23.2	32	30
BT50-ST10EA97-195	○	50	10	195	97	13	23.2	32	30
BT50-ST10EB42-110	○	50	10	110	42	16	20.4	25	30
BT50-ST10EB67-135	○	50	10	135	67	16	23	25	30
BT50-ST10EB97-165	○	50	10	165	97	16	26.2	32	30
BT50-ST10EB127-195	○	50	10	195	127	16	29.3	42	30
BT50-ST12EA42-110	○	50	12	110	42	15	19.4	32	30
BT50-ST12FA67-135	○	50	12	135	67	15	22	32	30
BT50-ST12EA97-165	○	50	12	165	97	15	25.2	32	30
BT50-ST12EA97-195	○	50	12	195	97	15	25.2	32	30
BT50-ST12EB42-110	○	50	12	110	42	19	23.4	25	30
BT50-ST12EB67-135	○	50	12	135	67	19	26	25	30
BT50-ST12EB97-1 G5	○	50	12	165	97	19	29.2	32	30
BT50-ST12EB127-195	○	50	12	195	127	19	32.3	42	30

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6



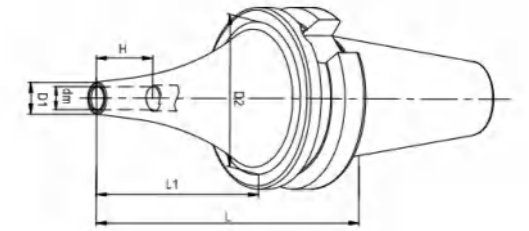
型号 Model	库存 Stock		尺寸 Dimensions(mm)						
			dm	L1	L2	D1	D2	H	
JIS B6339-AD									
BT30-ST04EA-90Q	○	30	4	90	68	7	34	12	
BT30-ST04EA-120Q	○	30	4	120	98	7	34	12	
BT30-ST06EA-90Q	○	30	6	90	68	9	34	18	
BT30-ST06EA-120Q	○	30	6	120	98	9	34	18	
BT30-ST08EA-90Q	○	30	8	90	68	11	34	24	
BT30-ST10EA-90Q	○	30	10	90	68	13	34	30	
BT40-ST04EA-90Q	○	40	4	90	63	7	53	12	
BT40-ST04EA-120Q	○	40	4	120	93	7	53	12	
BT40-ST04EA-150Q	○	40	4	150	123	7	53	12	
BT40-ST04EA-180Q	○	40	4	180	153	7	53	12	
BT40-ST06EA-90Q	○	40	6	90	63	9	53	18	
BT40-ST06EA-120Q	○	40	6	120	93	9	53	18	
BT40-ST06EA-150Q	○	40	6	150	123	9	53	18	
BT40-ST06EA-180Q	○	40	6	180	153	9	53	18	
BT40-ST08EA-90Q	○	40	8	90	63	11	53	24	
BT40-ST08EA-120Q	○	40	8	120	93	11	53	24	
BT40-ST08EA-150Q	○	40	8	150	123	11	53	24	
BT40-ST08EA-180Q	○	40	8	180	153	11	53	24	
BT40-ST10EA-90Q	○	40	10	90	63	13	53	30	
BT40-ST10EA-120Q	○	40	10	120	93	13	53	30	
BT40-ST10EA-150Q	○	40	10	150	123	13	53	30	
BT40-ST10EA-180Q	○	40	10	180	153	13	53	30	
BT40-ST12EA-90Q	○	40	12	90	63	15	53	30	
BT40-ST12EA-120Q	○	40	12	120	93	15	53	30	
BT40-ST12EA-150Q	○	40	12	150	123	15	53	30	

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6

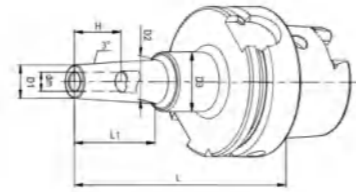


型号 Model	库存 Stock		尺寸 Dimensions(mm)					
			dm	L1	L2	D1	D2	H
JIS B6339-AD								
BT40-ST12EA-180Q	○	40	12	180	153	15	53	30
BT50-ST04EA-165Q	○	50	4	165	127	7	85	12
BT50-ST04EA-225Q	○	50	4	225	187	7	85	12
BT50-ST06EA-165Q	○	50	6	165	127	9	85	18
BT50-ST06EA-225Q	○	50	6	225	187	9	85	18
BT50-ST08EA-165Q	○	50	8	165	127	11	85	24
BT50-ST08EA-225Q	○	50	8	225	187	11	85	24
BT50-ST10EA-165Q	○	50	10	165	127	13	85	30
BT50-ST10EA-225Q	○	50	10	225	187	13	85	30
BT50-ST12EA-165Q	○	50	12	165	127	15	85	30
BT50-ST12EA-225Q	○	50	12	225	187	15	85	30

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

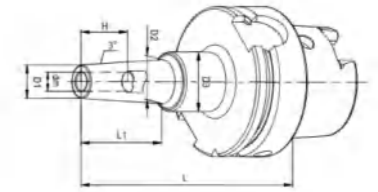


型号 Model	库存 Stock	尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
HSK63A-ST03EA42-95	○	63	3	95	42	6	10.4	25	9
HSK63A-ST03EA67-120	○	63	3	120	67	6	13	25	9
HSK63A-ST03XA42-95	○	63	3	95	42	7.5	11.9	25	9
HSK63A-ST03XA67-120	○	63	3	120	67	7.5	14.5	25	9
HSK63A-ST04EA42-95	○	63	4	95	42	7	11.4	25	12
HSK63A-ST04EA67-120	○	63	4	120	67	7	14	25	12
HSK63A-ST04EA97-150	○	63	4	150	97	7	17.2	25	12
HSK63A-ST04EA97-180	○	63	4	180	97	7	17.2	25	12
HSK63A-ST04XA42-95	○	63	4	120	67	10	14.4	25	12
HSK63A-ST04XA67-120	○	63	4	150	97	10	17	25	12
HSK63A-ST04XA97-150	○	63	4	180	127	10	20.2	25	12
HSK63A-ST04XA127-180	○	63	4	120	67	10	23.3	32	12
HSK63A-ST06EA42-95	○	63	6	95	42	9	13.4	25	18
HSK63A-ST06EA67-120	○	63	6	120	67	9	16	25	18
HSK63A-ST06EA97-150	○	63	6	150	97	9	19.2	32	18
HSK63A-ST06EA97-180	○	63	6	180	97	9	19.2	32	18
HSK63A-ST06EB42-95	○	63	6	95	42	10	14.4	25	18
HSK63A-ST06EB67-120	○	63	6	120	67	10	17	25	18
HSK63A-ST06EB97-150	○	63	6	150	97	10	20.2	32	18
HSK63A-ST06EB127-180	○	63	6	180	127	10	23.2	32	18
HSK63A-ST08EA42-95	○	63	8	95	42	11	15.4	25	24
HSK63A-ST08EA67-120	○	63	8	120	67	11	18	32	24
HSK63A-ST08EA97-150	○	63	8	150	97	11	21.2	32	24
HSK63A-ST08EA97-180	○	63	8	180	97	11	21.2	32	24
HSK63A-ST08EB42-95	○	63	8	95	42	13	17.4	32	24

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

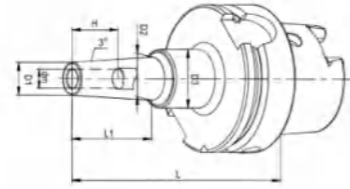


型号 Model	库存 Stock	尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
HSK63A-ST08EB67-120	○	63	8	120	67	13	20	32	32
HSK63A-ST08EB97-150	○	63	8	150	97	13	23.2	32	32
HSK63A-ST08EB127-180	○	63	8	180	127	13	26.3	32	32
HSK63A-ST10EA42-95	○	63	10	95	42	13	17.4	25	25
HSK63A-ST10EA67-120	○	63	10	120	67	13	20	32	32
HSK63A-ST10EA97-150	○	63	10	150	97	13	23.2	32	32
HSK63A-ST10EA97-180	○	63	10	180	97	13	23.2	32	32
HSK63A-ST10EB42-95	○	63	10	95	42	16	20.4	25	25
HSK63A-ST10EB67-120	○	63	10	120	67	16	23	25	25
HSK63A-ST10EB97-150	○	63	10	150	97	16	26.2	32	32
HSK63A-ST10EB127-180	○	63	10	180	127	16	29.3	42	42
HSK63A-ST12EA42-95	○	63	12	95	42	15	19.4	32	32
HSK63A-ST12EA67-120	○	63	12	120	67	15	22	32	32
HSK63A-ST12EA97-150	○	63	12	150	97	15	25.2	32	32
HSK63A-ST12EA97-180	○	63	12	180	97	15	25.2	32	32
HSK63A-ST12EB42-95	○	63	12	95	42	19	23.4	25	25
HSK63A-ST12EB67-120	○	63	12	120	67	19	26	25	25
HSK63A-ST12EB97-150	○	63	12	150	97	19	29.2	32	32
HSK63A-ST12EB127-180	○	63	12	180	127	19	32.3	42	42

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄 Hot charging handle

柄径公差
Tolerance
h6

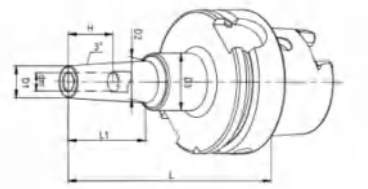


型号 Model DIN69893-A	库存 Stock		尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
HSK 100A-ST03EA42-110	○	100		3	110	42	6	10.4	25	9
HSK 100A-ST03EA67-135	○	100		3	135	67	6	13	25	9
HSK 100A-ST03XA42-110	○	100		3	110	42	7.5	11.9	25	9
HSK 100A-ST03XA67-135	○	100		3	135	67	7.5	14.5	25	9
HSK 100A-ST04EA42-110	○	100		4	110	42	7	11.4	25	12
HSK 100A-ST04EA67-135	○	100		4	135	67	7	14	25	12
HSK 100A-ST04EA97-165	○	100		4	165	97	7	17.2	25	12
HSK 100A-ST04EA97-195	○	100		4	195	97	7	17.2	25	12
HSK 100A-ST04XA42-110	○	100		4	110	67	10	14.4	25	12
HSK 100A-ST04XA67-135	○	100		4	135	97	10	17	25	12
HSK 100A-ST04XA97-165	○	100		4	165	127	10	20.2	25	12
HSK 100A-ST04XA127-195	○	100		4	195	67	10	23.3	32	12
HSK 100A-ST06EA42-110	○	100		6	110	42	9	13.4	25	18
HSK 100A-ST06EA67-135	○	100		6	135	67	9	16	25	18
HSK 100A-ST06EA97-165	○	100		6	165	97	9	19.2	32	18
HSK 100A-ST06EA97-195	○	100		6	195	97	9	19.2	32	18
HSK 100A-ST06EB42-110	○	100		6	110	42	10	14.4	25	18
HSK 100A-ST06EB67-135	○	100		6	135	67	10	17	25	18
HSK 100A-ST06EB97-165	○	100		6	165	97	10	20.2	32	18
HSK 100A-ST06EB127-195	○	100		6	195	127	10	23.2	32	18
HSK 100A-ST08EA42-110	○	100		8	110	42	11	15.4	25	25
HSK 100A-ST08EA67-135	○	100		8	135	67	11	18	32	25
HSK 100A-ST08EA97-165	○	100		8	165	97	11	21.2	32	25
HSK 100A-ST08EA97-195	○	100		8	195	97	11	21.2	32	25
HSK 100A-ST08EB42-110	○	100		8	110	42	13	17.4	32	25

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄 Hot charging handle

柄径公差
Tolerance
h6

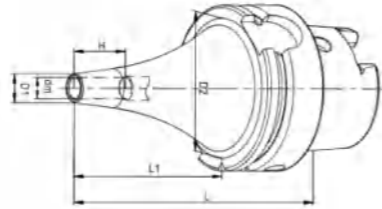


型号 Model DIN69893-A	库存 Stock		尺寸 Dimensions(mm)	dm	L	L1	D1	D2	D3	H
HSK 100A-ST08EB67-135	○	100		8	135	67	13	20	32	24
HSK 100A-ST08EB97-165	○	100		8	165	97	13	23.2	32	24
HSK 100A-ST08EB127-195	○	100		8	195	127	13	26.3	32	24
HSK 100A-ST10EA42-110	○	100		10	110	42	13	17.4	25	30
HSK 100A-ST10EA67-135	○	100		10	135	67	13	20	32	30
HSK 100A-ST10EA97-165	○	100		10	165	97	13	23.2	32	30
HSK 100A-ST10EA97-195	○	100		10	195	97	13	23.2	32	30
HSK 100A-ST10EB42-110	○	100		10	110	42	16	20.4	25	30
HSK 100A-ST10EB67-135	○	100		10	135	67	16	23	25	30
HSK 100A-ST10EB97-165	○	100		10	165	97	16	26.2	32	30
HSK 100A-ST10EB127-195	○	100		10	195	127	16	29.3	42	30
HSK 100A-ST12EA42-110	○	100		12	110	42	15	19.4	32	30
HSK 100A-ST12EA67-135	○	100		12	135	67	15	22	32	30
HSK 100A-ST12EA97-165	○	100		12	165	97	15	25.2	32	30
HSK 100A-ST12EA97-195	○	100		12	195	97	15	25.2	32	30
HSK 100A-ST12EB42-110	○	100		12	110	42	19	23.4	25	30
HSK 100A-ST12EB67-135	○	100		12	135	67	19	26	25	30
HSK 100A-ST12EB97-165	○	100		12	165	97	19	29.2	32	30
HSK 100A-ST12EB127-195	○	100		12	195	127	19	32.3	42	30

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

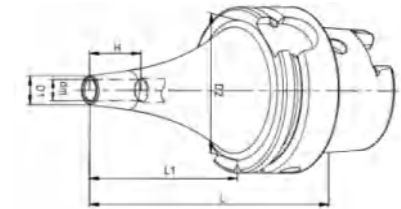


型号 Model DIN69893-A	库存 Stock		尺寸 Dimensions(mm)	dm	L1	L2	D1	D2	H
HSK63A-ST04EA-90Q	○	63	4	90	64	7	53	12	
HSK63A-ST04EA-120Q	○	63	4	120	94	7	53	12	
HSK63A-ST04EA-150Q	○	63	4	150	124	7	53	12	
HSK63A-ST04EA-180Q	○	63	4	180	154	7	53	12	
HSK63A-ST06EA-90Q	○	63	6	90	64	9	53	18	
HSK63A-ST06EA-120Q	○	63	6	120	94	9	53	18	
HSK63A-ST06EA-150Q	○	63	6	150	124	9	53	18	
HSK63A-ST06EA-180Q	○	63	6	180	154	9	53	18	
HSK63A-ST08EA-90Q	○	63	8	90	64	11	53	24	
HSK63A-ST08EA-120Q	○	63	8	120	94	11	53	24	
HSK63A-ST08EA-150Q	○	63	8	150	124	11	53	24	
HSK63A-ST08EA-180Q	○	63	8	180	154	11	53	24	
HSK63A-ST10EA-90Q	○	63	10	90	64	13	53	30	
HSK63A-ST10EA-120Q	○	63	10	120	94	13	53	30	
HSK63A-ST10EA-150Q	○	63	10	150	124	13	53	30	
HSK63A-ST10EA-180Q	○	63	10	180	154	13	53	30	
HSK63A-ST12EA-90Q	○	63	12	90	64	15	53	30	
HSK63A-ST12EA-120Q	○	63	12	120	94	15	53	30	
HSK63A-ST12EA-150Q	○	63	12	150	124	15	53	30	
HSK63A-ST12EA-180Q	○	63	12	180	154	15	53	30	

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle



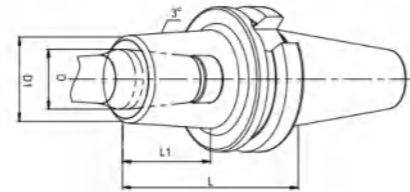
型号 Model DIN69893-A	库存 Stock		尺寸 Dimensions(mm)	dm	L1	L2	D1	D2	H
HSK100A-ST04EA-165Q	○	100	4	165	136	7	85	12	
HSK100A-ST04EA-225Q	○	100	4	225	196	7	85	12	
HSK100A-ST06EA-165Q	○	100	6	165	136	9	85	18	
HSK100A-ST06EA-225Q	○	100	6	225	196	9	85	18	
HSK100A-ST08EA-165Q	○	100	8	165	136	11	85	24	
HSK100A-ST08EA-225Q	○	100	8	225	196	11	85	24	
HSK100A-ST10EA-165Q	○	100	10	165	136	13	85	30	
HSK100A-ST10EA-225Q	○	100	10	225	196	13	85	30	
HSK100A-ST12EA-165Q	○	100	12	165	136	15	85	30	
HSK100A-ST12EA-225Q	○	100	12	225	196	15	85	30	

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6



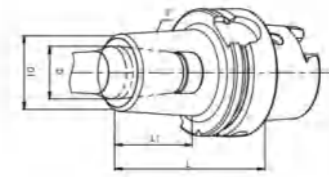
型号 Model	库存 Stock	图标	尺寸 Dimensions(mm)			
			D	L	L1	D1
BT40-STK26-75	○		26	75	48	38
BT40-STK26-135	○		26	135	108	38
BT50-STK26-105	○		26	105	67	38
BT50-STK26-135	○		26	135	97	38

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄

Hot charging handle

柄径公差
Tolerance
h6

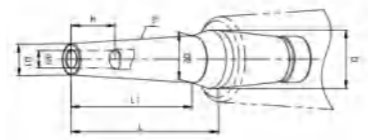


型号 Model	库存 Stock	图标	尺寸 Dimensions(mm)			
			D	L	L1	D1
HSK63A-STK26-75	○		26	75	49	38
HSK63A-STK26-135	○		26	135	109	38
HSK100A-STK26-105	○		26	105	76	38
HSK100A-STK26-135	○		26	135	106	38

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄 Hot charging handle

柄径公差
Tolerance
h6

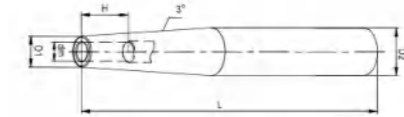


型号 Model	库存 Stock	尺寸 Dimensions(mm)						
		dm	D	L	L1	D1	D2	H
CE26-ST03-80	○	3	26	80	67	6	13.1	9
CE26-ST03-110	○	3	26	110	97	6	16.2	9
CX26-ST03-80	○	3	26	80	67	7.5	14.6	9
CE26-ST04-80	○	4	26	80	67	7	14.1	12
CE26-ST04-110	○	4	26	110	97	7	17.2	12
CX26-ST04-80	○	4	26	80	67	10	17.1	12
CE26-ST06-80	○	6	26	80	67	9	16.1	18
CE26-ST06-110	○	6	26	110	97	9	19.2	18
CX26-ST06-80	○	6	26	80	67	12	19.1	18
CE26-ST08-80	○	8	26	80	67	11	18.1	24
CE26-ST08-110	○	8	26	110	97	11	21.2	24
CX26-ST08-80	○	8	26	80	67	14	21.1	24
CE26-ST10-80	○	10	26	80	67	13	20.1	30
CE26-ST10-110	○	10	26	110	97	13	23.2	30
CX26-ST10-80	○	10	26	80	67	16	23.1	30
CE26-ST12-80	○	12	26	80	67	15	22.1	30
CE26-ST12-110	○	12	26	110	97	15	/	30
CX26-ST12-80	○	12	26	80	67	20	/	30

●标准库存 Standard inventory ○订单生产 Order production

热装刀柄 Hot charging handle

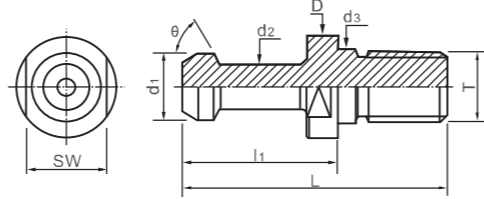
柄径公差
Tolerance
h6



型号 Model	库存 Stock	尺寸 Dimensions(mm)				
		dm	L	D1	D2	H
C10-ST04EA-80	○	4	80	7	10	12
C10-ST04EA-80	○	4	80	7	10	12
C16-ST06EA-140	○	6	140	9	16	18
C16-ST06EB-140	○	6	140	10	16	18
C16-ST08EA-115	○	8	115	11	16	24
C20-ST06EA-175	○	6	175	9	20	18
C20-ST06EB-175	○	6	175	10	20	18
C20-ST08EA-175	○	8	175	11	20	24
C20-ST08EB-145	○	8	145	13	20	24
C20-ST10EA-145	○	10	145	13	20	30
C20-ST10EB-120	○	10	120	16	20	30
C20-ST12EA-120	○	12	120	15	20	30

●标准库存 Standard inventory ○订单生产 Order production

拉钉 Pull Studs

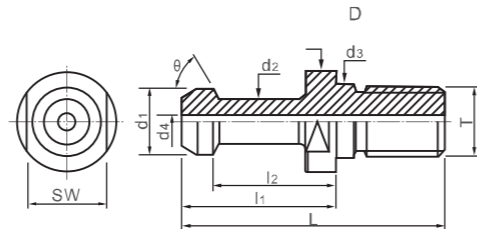


型号 Model	库存 Stock	尺寸 Dimensions(mm)						
		D	d1	d2	d3	L	l1	T
BT30-45°	○	16.5	11	7	12.5	42	23	M12
BT40-45°	○	23	15	10	17	60	35	M16
BT50-45°	○	38	23	17	25	85	45	M24
BT30-60°	○	16.5	11	7	12.5	43	23	M12
BT40-60°	○	23	15	10	17	60	35	M16
BT50-60°	○	38	23	17	25	85	45	M24
BT30-90°	○	16.5	11	7	12.5	43	23	M12
BT40-90°	○	23	15	10	17	60	35	M16
BT50-90°	○	38	23	17	25	85	45	M24

- 常规制造不带冷却孔,若需要冷却孔,订货时说明。
- There is no cooling hole in conventional manufacturing, if there is a cooling hole, please specify when ordering.

●标准库存 Standard inventory ○订单生产 Order production

BT Pull stud (centre through coolant)

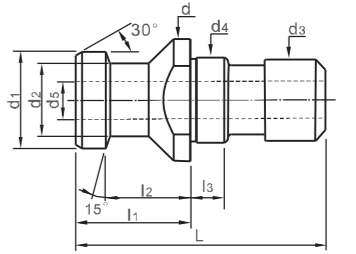


型号 Model	库存 Stock	尺寸 Dimensions(mm)								
		D	D1	D2	D3	D4	L	L1	L2	T
BT40-45° W	○	23	15	10	17	4	60	35	28	M16
BT40-60° W	○	23	15	10	17	4	60	35	28	M16
BT40-90° W	○	23	15	10	17	4	60	35	28	M16
BT50-45° W	○	38	23	17	25	5	85	45	35	M24
BT50-60° W	○	38	23	17	25	5	85	45	35	M24
BT50-90° W	○	38	23	17	25	5	85	45	35	M24

- 常规制造不带冷却孔,若需要冷却孔,订货时说明。
- There is no cooling hole in conventional manufacturing, if there is a cooling hole, please specify when ordering.

●标准库存 Standard inventory ○订单生产 Order production

拉钉 (DIN 69872) Pull Studs

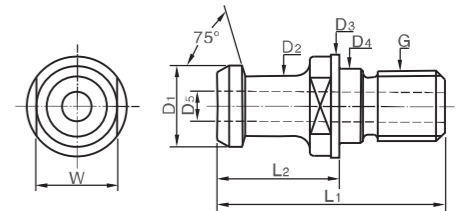


型号 Model	库存 Stock	尺寸 Dimensions(mm)									
		L	L1	L2	L3	d	d1	d2	d3	d4	d5
DIN69872-30	○	44	24	19	5	17	13	9	M12	13	-
DIN69872-40(A)	○	54	26	20	7	23	19	14	M16	17	7.0
DIN69872-50(A)	○	74	34	25	10	36	28	21	M24	25	11.5

- 常规制造不带冷却孔,若需要冷却孔,订货时说明。
- There is no cooling hole in conventional manufacturing, if there is a cooling hole, please specify when ordering.

●标准库存 Standard inventory ○订单生产 Order production

JIS Pull stud

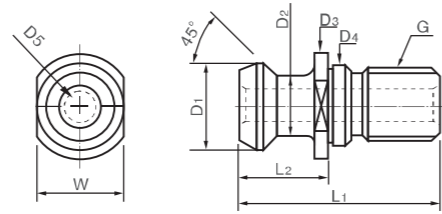


型号 Model	库存 Stock	尺寸 Dimensions(mm)								
		L1	L2	D1	D2	D3	D4	D5	W	G
JIS B6339-40P	○	54	29	19	14	23	17	7	19	M16
JIS B6339-50P	○	74	34	28	21	38	25	10	30	M24

- 常规制造不带冷却孔,若需要冷却孔,订货时说明。
- There is no cooling hole in conventional manufacturing, if there is a cooling hole, please specify when ordering.

●标准库存 Standard inventory ○订单生产 Order production

拉钉(MAZAK)
Pull Studs



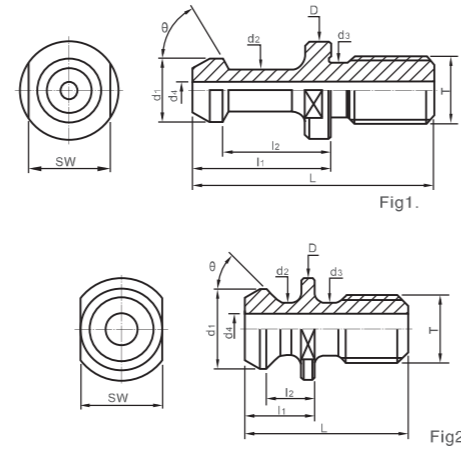
型号 Model	库存 Stock	尺寸 Dimensions(mm)									
		L1	L2	D1	D2	D3	D4	D5	W	G	
MAZAK-BT40	○	44.1	19.1	18.8	12.45	22	17	7	19	M16	
MAZAK-BT50	○	65.2	25.2	29	20.83	37	25	10	30	M24	

- 常规制造不带冷却孔,若需要冷却孔,订货时说明。

- There is no cooling hole in conventional manufacturing, if there is a cooling hole, please specify when ordering.

●标准库存 Standard inventory ○订单生产 Order production

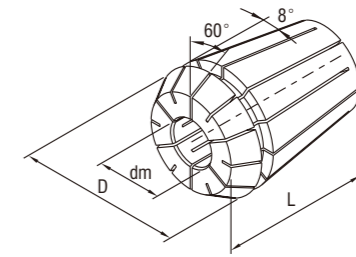
CAT



型号 Model	库存 Stock	尺寸 Dimensions(mm)										
		D	d1	d2	d3	d4	L	I1	I2	SW	T-UNG	Fig
CAT30-45° - ANSI	○	0.65	0.25	0.385	0.385	-	1.10	0.460	0.320	0.53	1/2"-13	2
CAT40-45° - ANSI	○	0.94	0.74	0.490	0.490	-	1.50	0.460	0.440	0.75	5/8"-11	
CAT50-45° - ANSI	○	1.44	1.14	0.820	0.820	-	2.30	1.00	0.700	1.25	1"-8	2
CAT40-45° - W	○	0.94	0.74	0.490	0.490	0.281	1.50	0.640	0.440	0.75	5/8"-11	
CAT50-45° - W	○	1.44	1.14	0.820	0.820	0.468	2.30	1.00	0.400	1.25	1"-8	
CAT40-45° - MAS	○	0.905	0.590	0.394	0.512	-	2.25	1.266	0.99	0.748	5/8"-11	1
CAT40-60° - MAS	○	0.905	0.590	0.394	0.512	-	2.25	1.266	0.99	0.748	5/8"-11	
CAT40-90° - MAS	○	0.905	0.590	0.394	0.512	-	2.25	1.266	0.99	0.748	5/8"-11	
CAT50-45° - MAS	○	1.102	0.906	0.669	0.827	-	3.346	-	1.378	1.181	1"-8	
CAT50-60° - MAS	○	1.102	0.906	0.669	0.827	-	3.346	-	1.378	1.181	1"-8	
CAT50-90° - MAS	○	1.102	0.906	0.669	0.827	-	3.346	-	1.378	1.181	1"-8	
CTA40-45°	○	0.905	0.590	0.394	0.512	0.157	2.25	1.266	0.99	0.748	5/8"-11	
CTA40-60°	○	0.905	0.590	0.394	0.512	0.157	2.25	1.266	0.99	0.748	5/8"-11	
CTA40-90°	○	0.905	0.590	0.394	0.512	0.157	2.25	1.266	0.99	0.748	5/8"-11	
CTA50-45°	○	1.102	0.906	0.669	0.827	0.256	3.346	1.722	1.378	1.181	1"-8	
CTA50-60°	○	1.102	0.906	0.669	0.827	0.256	3.346	1.722	1.378	1.181	1"-8	
CTA50-90°	○	1.102	0.906	0.669	0.827	0.256	3.346	1.722	1.378	1.181	1"-8	
CAT30-45° - M	○	0.65	0.52	0.385	0.385	-	1.10	0.460	0.320	0.53	M12x1.75P	2
CAT40-45° - M	○	0.94	0.74	0.490	0.490	-	1.50	0.640	0.440	0.75	M16x2.0P	
CAT50-45° - M	○	1.44	1.140	0.820	0.820	-	2.30	1.00	0.700	1.25	M2.4x3.0P	

●标准库存 Standard inventory ○订单生产 Order production

ER卡簧(DIN6499)
ER Collets

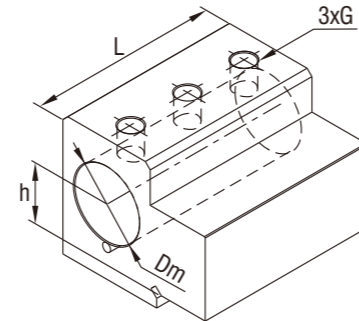


注意事项:
- 刀具夹持小于2/3卡簧内孔长度将造成卡簧永久性损坏。
- 夹持等于卡簧内孔长度可获得最好的夹持精度和夹持力。
- 被夹持的刀具直径不得大于卡簧最大夹持直径。
Matters needing attention:
- Clamping tool clamping less than 2/3 of the hole length of the spring will cause permanent damage to the spring.
- The best clamping accuracy and clamping force can be obtained by clamping equal to the length of the hole in the clamping spring.
- The diameter of the clamping tool shall not be greater than the maximum clamping diameter of the clamping spring.

卡簧夹持范围: ER11为0.5mm, ER16及以上为1.0mm

卡簧 dm 夹持范围 (mm)	ER11 L/D (mm)	ER16 L/D (mm)	ER20 L/D (mm)	ER25 L/D (mm)	ER32 L/D (mm)	ER40 L/D (mm)	卡簧 dm 夹持范围 (mm)
1.0-0.5	ER11-1	ER16-1					1.0-0.5
1.5-1.0	ER11-1.5						1.5-1.0
2.0-1.5	ER11-2	ER16-2	ER20-2	ER25-2			2.0-1.5
2.5-2.0	ER11-2.5						2.5-2.0
3.0-2.5	ER11-3	ER16-3	ER20-3	ER25-3	ER32-3		3.0-2.5
3.5-3.0	ER11-3.5						3.5-3.0
4.0-3.5	ER11-4	ER16-4	ER20-4	ER25-4	ER32-4	ER40-4	4.0-3.5
4.5-4.0	ER11-4.5						4.5-4.0
5.0-4.5	ER11-5	ER16-5	ER20-5	ER25-5	ER32-5	ER40-5	5.0-4.5
5.5-5.0	ER11-5.5						5.5-5.0
6.0-5.5	ER11-6	ER16-6	ER20-6	ER25-6	ER32-6	ER40-6	6.0-5.5
6.5-6.0	ER11-6.5						6.5-6.0
7.0-6.5	ER11-7						7.0-6.5
7.0-6.0	ER11-1.5	ER16-7	ER20-7	ER25-7	ER32-7	ER40-7	7.0-6.0
8.0-7.0		ER16-8	ER20-8	ER25-8	ER32-8	ER40-8	8.0-7.0
9.0-8.0	ER11-1.5	ER16-9	ER20-9	ER25-9	ER32-9	ER40-9	9.0-8.0
10.0-9.0		ER16-10	ER20-10	ER25-10	ER32-10	ER40-10	10.0-9.0
11.0-10.0	ER11-1.5		ER20-11	ER25-11	ER32-11	ER40-11	11.0-10.0
12.0-11.0			ER20-12	ER25-12	ER32-12	ER40-12	12.0-11.0
13.0-12.0	ER11-1.5		ER20-13	ER25-13	ER32-13	ER40-13	13.0-12.0
14.0-13.0				ER25-14	ER32-14	ER40-14	14.0-13.0
15.0-14.0	ER11-1.5			ER25-15	ER32-15	ER40-15	15.0-14.0
16.0-15.0				ER25-16	ER32-16	ER40-16	16.0-15.0
17.0-16.0	ER11-1.5				ER32-17	ER40-17	17.0-16.0
18.0-17.0					ER32-18	ER40-18	18.0-17.0
19.0-18.0	ER11-1.5				ER32-19	ER40-19	19.0-18.0
20.0-19.0					ER32-20	ER40-20	20.0-19.0
21.0-20.0	ER11-1.5					ER40-21	21.0-20.0
22.0-21.0						ER40-22	22.0-21.0
23.0-22.0	ER11-1.5					ER40-23	23.0-22.0
24.0-23.0						ER40-24	24.0-23.0
25.0-24.0	ER11-1.5					ER40-25	25.0-24.0
26.0-25.0						ER40-26	26.0-25.0
柄径公差	h8	h8	h8	h8	h8	h8	柄径公差

内孔车刀夹套 Internal turning Jacket



型号 Model	DmH7	h±0.1	L	G	螺钉	扳手
EF16.20.75	20	16	75	M8	RS08012	S4
EF20.25.80	25	20	80	M10	RS10012	S5
EF25.32.80	32	25	80	M12	RS12016	S6
EF32.40.100	40	32	100	M12	RS12016	S6

● 标准库存 Standard inventory ○ 订单生产 Order production

● 订货示例：一件 EF20.25.80
Ordering examing:1 piece EF20.25.80

过渡套 The transition of

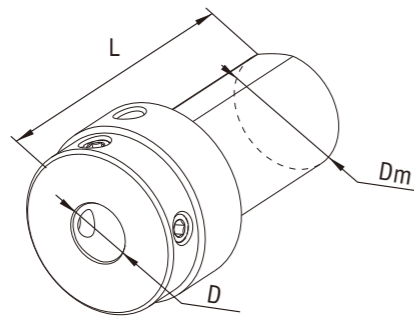


Fig 1
(适用于钢制镗杆)
(Suitable for steel boring bar)

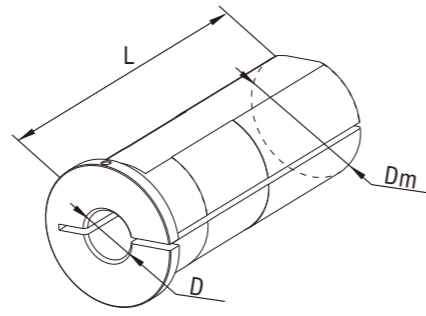


Fig 2
(适用于合金镗杆)
(Suitable for alloy boring bar)

型号 Model	Dm	D	L	图例
RES20-	20	10,12,16	85	Fig 1
RES25-	25	10,12,16,20	85	
RES32-	32	10,12,16,20,25	85	
RES40-	40	12,16,20,25,32	100	
REB20-	20	10,12,16	75	Fig 2
REB25-	25	10,12,16,20	80	
REB32-	32	10,12,16,20,25	80	
REB40-	40	12,16,20,25,32	100	

● 订货示例：一件 EF20.25.80
Ordering examing:1 piece EF20.25.80

轴定位器 Z-axis setters

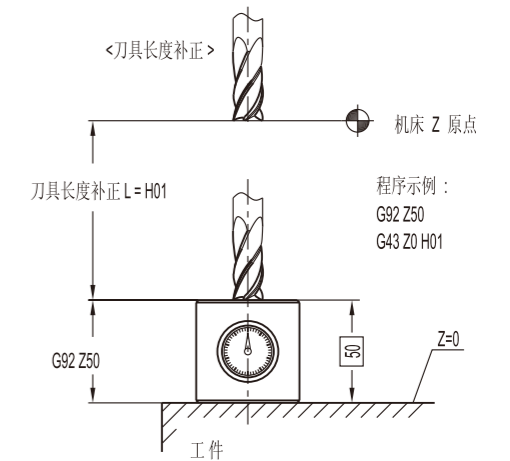
ZDS-50 (通用型)



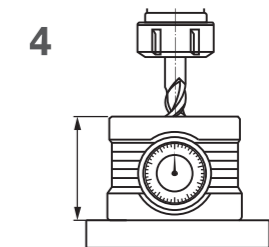
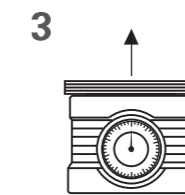
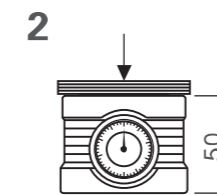
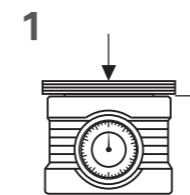
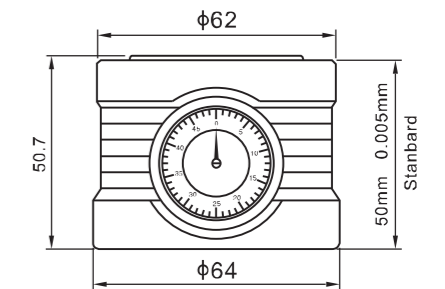
高度 :50 ± 0.005

使用说明: 将ZDS-50 放在工件上, 刀具与检测面缓慢接触, 调节刀具高度, 使表对零。此时, 刀具偏置为50±0.005。

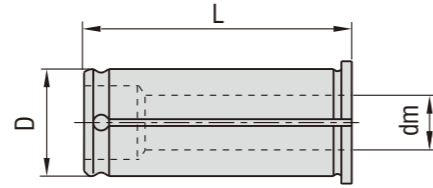
Instructions: Place THE ZDS-50 on the workpiece, and slowly contact the tool with the detection surface to adjust the tool.Height, set the table to zero. At this point, the tool offset is 500.005.



型号 Model	H
ZDI-50A	50

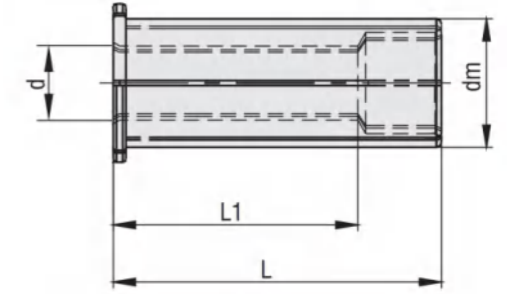
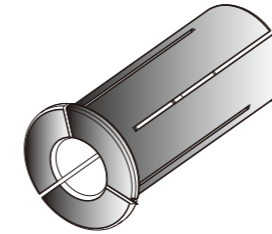


直筒卡簧 Straight Collets



卡簧 dm 夹持范围	C20 L/D (mm)	C22 L/D (mm)	C25 L/D (mm)	C32 L/D (mm)	卡簧 dm 夹持范围
	55/20	55/22	60/25	64/32	
4	C20-4	C22-4	C25-4	C32-4	4
5	C20-5	C22-5	C25-5	C32-5	5
6	C20-6	C22-6	C25-6	C32-6	6
8	C20-8	C22-8	C25-8	C32-8	8
10	C20-10	C22-10	C25-10	C32-10	10
12	C20-12	C22-12	C25-12	C32-12	12
14	C20-14	C22-14	C25-14	C32-14	14
16	C20-16	C22-16	C25-16	C32-16	16
18		C22-18	C25-18	C32-18	18
20		C22-20	C25-20	C32-20	20
25			C25-25	C32-25	25
柄径公差	h6	h6	h6	h6	柄径公差

液压卡簧 Hydraulic Collets



型号 Model	库存 Stock	尺寸 Dimensions(mm)			
		dm	d	L	L1
HC10-3C	○	10	3	42	25
HC10-4C	○	10	4	42	25
HC10-5C	○	10	5	42	25
HC10-6C	○	10	6	42	32
HC10-7C	○	10	7	42	33
HC10-8C	○	10	8	42	33
HC16-3C	○	16	3	52	24
HC16-4C	○	16	4	52	24
HC16-5C	○	16	5	52	24
HC16-6C	○	16	6	52	32
HC16-7C	○	16	7	52	33
HC16-8C	○	16	8	52	33
HC16-9C	○	16	9	52	34
HC16-10C	○	16	10	52	36
HC16-12C	○	16	12	52	36
	○	16	14	52	41
HC25-3C	○	25	3	63	25
HC25-4C	○	25	4	63	25
HC25-5C	○	25	5	63	25
HC25-6C	○	25	6	63	33
HC25-7C	○	25	7	63	33
HC25-8C	○	25	8	63	33
HC25-9C	○	25	9	63	33
HC25-10C	○	25	10	63	36
HC25-12C	○	25	12	63	41
HC25-14C	○	25	14	63	42
HC25-16C	○	25	16	63	44
HC25-18C	○	25	18	63	45
HC25-20C	○	25	20	63	46
HC25-22C	○	25	22	63	46

●标准库存 Standard inventory ○订单生产 Order production

型号 Model	库存 Stock	尺寸 Dimensions(mm)			
		dm	d	L	L1
HC12-3C	○	12	3	42	25
HC12-4C	○	12	4	42	25
HC12-5C	○	12	5	42	25
HC12-6C	○	12	6	42	32
HC12-7C	○	12	7	42	33
HC12-8C	○	12	8	42	33
HC12-9C	○	12	9	42	33
HC12-10C	○	12	10	42	36
HC20-3C	○	20	3	52	24
HC20-4C	○	20	4	52	24
HC20-5C	○	20	5	52	24
HC20-6C	○	20	6	52	32
HC20-7C	○	20	7	52	33
HC20-8C	○	20	8	52	33
HC20-9C	○	20	9	52	34
HC20-10C	○	20	10	52	36
HC20-12C	○	20	12	52	36
HC20-14C	○	20	14	52	41
HC20-16C	○	20	16	52	41
HC20-18C	○	20	18	52	44
HC32-6C	○	32	6	63	33
HC32-7C	○	32	7	63	33
HC32-8C	○	32	8	63	33
HC32-9C	○	32	9	63	33
HC32-10C	○	32	10	63	36
HC32-12C	○	32	12	63	41
HC32-14C	○	32	14	63	42
HC32-16C	○	32	16	63	44
HC32-18C	○	32	18	63	45
HC32-20C	○	32	20	63	46
HC32-22C	○	32	22	63	46
HC32-25C	○	32	25	63	47

●标准库存 Standard inventory ○订单生产 Order production

* 冷却液压力可达80bar。

* 液压卡簧必须完全插入到液压柄孔径中,直至肩部与液压柄前端面贴合。

* 切削刀具必须完全接触长度为L1的 液压卡簧型腔, 否则会对 液压卡簧 及刀柄产生永久性的损伤。

* 切削刀具的柄径公差等级为h6,表面粗糙度 $1.6 \geq Ra \geq 0.4$ 。

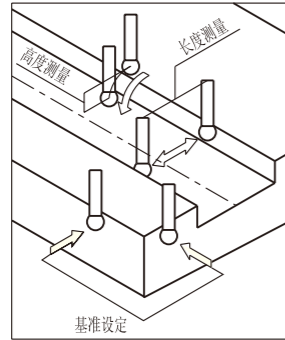
* coolant pressure up to 80bar.

* The hydraulic spring must be fully inserted into the hydraulic handle aperture until the shoulder meets the front end of the hydraulic handle.

* The cutting tool must have full contact length L1 cavity, otherwise onAnd permanent damage to the handle. Hydraulic circlip Hydraulic circlip

* The shank diameter tolerance class of cutting tools is H6 and the surface roughness is 1.6Ra 0.4 or higher.p

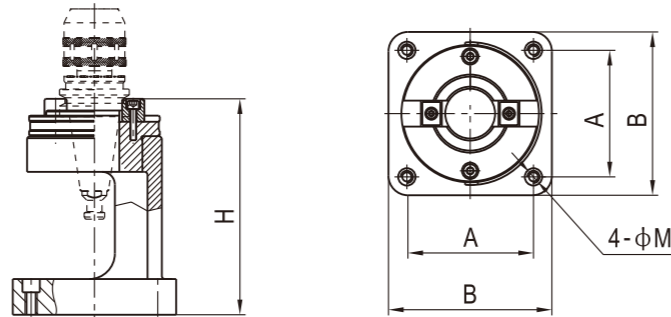
光电寻边器 Point Probes



型号 Model	D	L1	L2
OP20	20	155	10
OP32	32	155	10

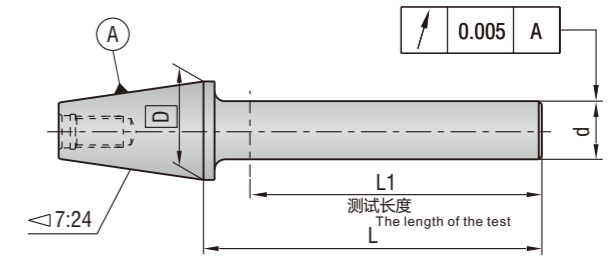
警告: 请缓慢接近工件, 避免损伤测头或测量不准确!
Warning: Please approach the workpiece slowly to avoid damage to the probe or inaccurate measurement!

卸刀夹具 Tooling Setup Fixtures



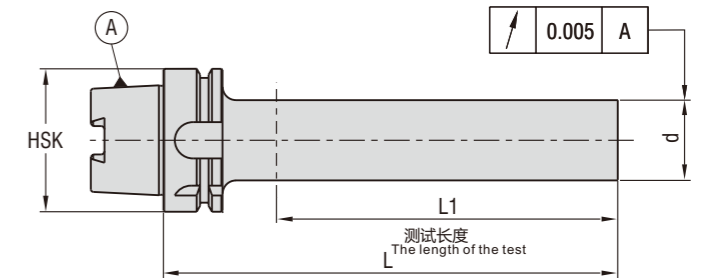
型号 Model		A	B	H	M	适用刀柄 Apply to the handle
T-M30	30	90	120	144	M12	JT30/BT30
T-M40	40	90	120	147	M12	JT40/BT40
T-M50	50	124	160	224	M12	JT50/BT50

7:24 测试棒 7:24 Test Bars



型号 Model		D	d	L1	L
JT40-TB40-300	40	44.45	40	265	300
JT50-TB50-350	50	69.85	50	300	350
BT40-TB40-300	50	44.45	40	265	300
BT50-TB50-350	50	69.85	50	300	350


HSK 测试棒 HSK Test Bars

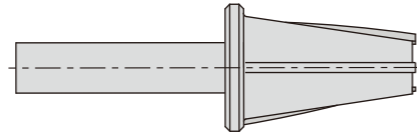


型号 Model		d	L	L1
HSK40-TB25-180	HSK-40	25	180	150
HSK50-TB32-235	HSK-50	32	235	200
HSK63-TB40-245	HSK-63	40	345	300
HSK100-TB40-350	HSK-100	40	350	300


主轴清洁棒 Spindle Wipes

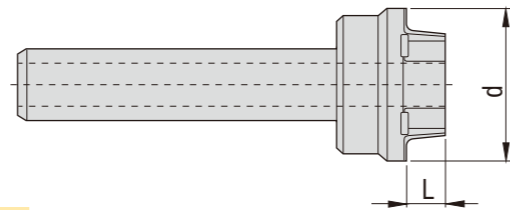
7:24

型号 Model	
W30	40
W40	40
W50	50



HSK


型号 Model		d	L1
HSK40W	HSK-40	45	14
HSK50W	HSK-50	53	17
HSK63W	HSK-63	66	22
HSK100W	HSK-100	103	35

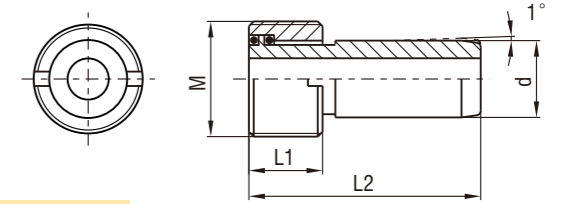


HSK 冷却液套管及扳手


HSK Coolant Tubes & Coolant Tube Wrenches

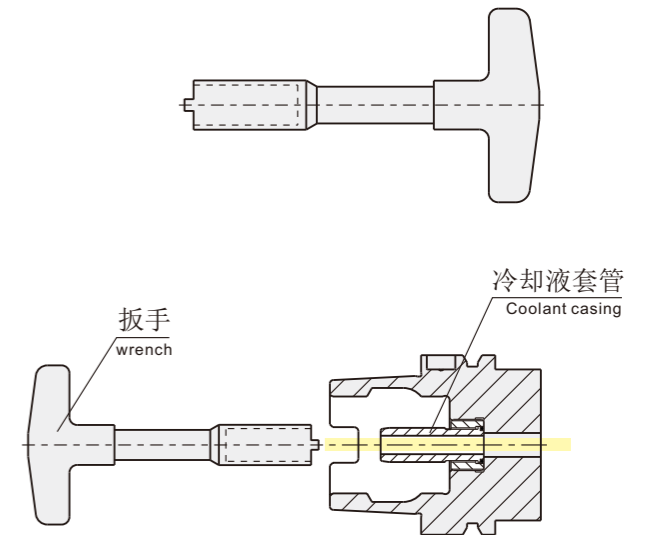
冷却液套管
HSK Coolant Tubes

型号 Model		M	d	L1	L2
TU-HSK40	HSK-40	M12X1	8	7.5	29.5
TU-HSK50	HSK-50	M16X1	10	9.5	33
TU-HSK63	HSK-63	M18X1	12	11.5	36.5
TU-HSK100	HSK-100	M24X1.5	16	15.5	44.5



扳手
HSK Coolant Tube Wrenches

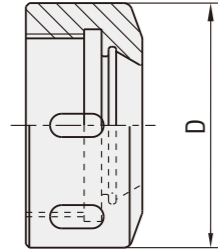
型号 Model	
W-HSK40	HSK-40
W-HSK50	HSK-50
W-HSK63	HSK-63
W-HSK100	HSK-100



ER螺母

ER Chuck Nuts

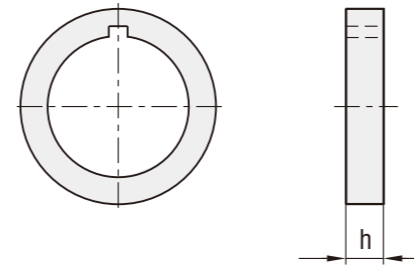
ER螺母
ER Chuck Nuts



型号 Model	D	描述 Description
NER11	23	用于ER11弹簧夹头刀柄
NER16	32	用于ER16弹簧夹头刀柄
NER20	34	用于ER20弹簧夹头刀柄
NER25	42	用于ER25弹簧夹头刀柄
NER32	50	用于ER32弹簧夹头刀柄
NER40	63	用于ER40弹簧夹头刀柄
NER11M	16	用于ER11弹簧夹头刀柄
NER16M	22	用于ER16弹簧夹头刀柄
NER20M	28	用于ER20弹簧夹头刀柄

三面刃铣刀刀柄用垫圈

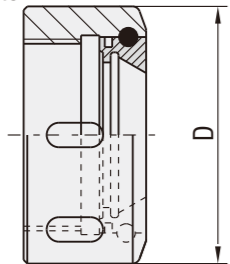
Washer for Slotting Cutter Holder



型号 Model	D	描述 Description
DXS12	3,5,7,8,10,12	用于三面刃刀柄安装外径为12.7mm
DXS13	3,5,7,8,10,12	-13mm
DXS15	3,5,7,8,10,12	-15.875mm
DXS16	3,5,7,8,10,12	-16mm
DXS22	3,5,7,8,10,12	-22mm
DXS22A	3,5,7,8,10,12	-22.225mm
DXS25	3,5,7,8,10,12	-25.40mm
DXS27	3,5,7,8,10,12	-27mm
DXS31	3,5,7,8,10,12	-31.75mm
DXS32	3,5,7,8,10,12	-32mm
DXS38	3,5,7,8,10,12	-38.1mm
DXS40	3,5,7,8,10,12	-40mm

滚珠螺母

ER Ball Bearing Nuts



型号 Model	D	描述 Description
NER16P	32	用于ER16弹簧夹头刀柄
NER20P	34	用于ER20弹簧夹头刀柄
NER25P	42	用于ER25弹簧夹头刀柄
NER32P	50	用于ER32弹簧夹头刀柄
NER40P	63	用于ER40弹簧夹头刀柄

型号 Model	D	描述 Description
NER16P	32	用于ER16弹簧夹头刀柄
NER20P	34	用于ER20弹簧夹头刀柄
NER25P	42	用于ER25弹簧夹头刀柄
NER32P	50	用于ER32弹簧夹头刀柄
NER40P	63	用于ER40弹簧夹头刀柄

SI 单位换算表

SI Unit Conversion Table

■ 粗线表格灰色部分即SI单位
Bold lined units marked with gray background are SI Units

力 Force

N	Kgf	dyn
1	1.01972X10 ⁻¹	1X10 ⁵
9.080665	1	9.80665X10 ⁵
1X10 ⁻⁵	1.01972X10 ⁻⁶	1

应力 Stress

1pa=1N/m², 1Mpa=1N/mm²

Pa or N/m ²	MPa or N/mm ²	kgf/mm ²	kgf/cm ²	kgf/m ²
1	1X10 ⁻⁶	1.01972X10 ⁻⁷	1.01972X10 ⁻⁵	1.01972X10 ⁻¹
1X10 ⁶	1	1.01972X10 ⁻¹	1.01972X10	1.01972X10 ⁵
9.80665X10 ⁶	9.80665	1	1X10 ²	1X10 ⁶
9.80665X10 ⁴	9.80665X10 ⁻²	1X10 ⁻²	1	1X10 ⁴
9.80665	9.80665X10 ⁻⁸	1X10 ⁻⁸	1X10 ⁻⁴	1

压力 Pressure

1pa=1N/m²

Pa	Kpa	Mpa	Bar	kgf/cm ²
1	1X10 ⁻³	1X10 ⁻⁶	1X10 ⁻⁵	1.01972X10 ⁻⁵
1X10 ³	1	1X10 ⁻³	1X10 ⁻²	1.01972X10 ⁻²
1X10 ⁶	1X10 ³	1	1X10	1.01972X10
1X10 ⁵	1X10 ²	1X10 ⁻¹	1	1.01972
9.80665X10 ⁴	9.80665X10	9.80665X10 ⁻²	9.80665X10 ⁻¹	1

■ 摘录自 JIS 钢铁手册
Extracted from JIS Handbook"steel"

硬度换算表

Hardness Conversion Table

韦氏硬度 Vickers Hardness (HV)	布氏硬度 Brinell Hardness (HB)		洛氏硬度 Rockwell Hardness			肖氏硬度 Shore Hardness (HS)	抗拉强度 (近似值) Tensile Strength Mpa*
	标准球 Standard Ball	碳化钨球 Tungsten Carbide Ball	A量视 荷重60KGgf金钢石 圆锥压子 A Scale Load: 60kgf Diamond point (HRA)	B量视 荷重100Kgf,直径1.6mm (1/16 in),球HRB B Scale Load: 100kgf 1.6mm Dia.Ball (HRB)	C量视 荷重150kgf 金钢石圆锥压子HRC C Scale Load:150kgf Diamond Point (HRC)		
940	-	-	85.6	-	68.0	97	-
920	-	-	85.3	-	67.5	96	-
900	-	-	85.0	-	67.0	95	-
880	-	767	84.7	-	66.4	93	-
860	-	757	84.4	-	65.9	92	-
840	-	745	84.1	-	65.3	91	-
820	-	733	83.8	-	64.7	90	-
800	-	722	83.4	-	64.0	88	-
780	-	710	83.0	-	63.3	87	-
760	-	698	82.6	-	62.5	86	-
740	-	684	82.2	-	61.8	84	-
720	-	670	81.8	-	61.0	83	-
700	-	656	81.3	-	60.1	81	-
690	-	647	81.1	-	59.7	-	-
680	-	638	80.8	-	59.2	80	-
670	-	630	80.6	-	58.8	-	-
660	-	620	80.3	-	58.3	79	-
650	-	611	80.0	-	57.8	-	-
640	-	601	79.8	-	57.3	77	-
630	-	591	79.5	-	56.8	-	-
620	-	582	79.2	-	56.3	75	-
610	-	573	78.9	-	55.7	-	-
600	-	564	78.6	-	55.2	74	-
590	-	554	78.4	-	54.7	-	2055
580	-	545	78.0	-	54.1	72	2020
570	-	535	77.8	-	53.6	-	1985
560	-	525	77.4	-	53.0	71	1950
550	-	517	77.0	-	52.3	-	1905
540	-	507	76.7	-	51.7	69	1860
530	-	497	76.4	-	51.1	-	1825
520	-	488	76.1	-	50.5	67	1795
510	-	479	75.7	-	49.8	-	1750
500	-	471	75.3	-	49.1	66	1705
490	-	460	74.9	-	48.4	-	1660
480	-	452	74.5	-	47.7	64	1620
470	-	442	74.1	-	46.9	-	1570
460	-	433	73.6	-	46.1	62	1530
450	-	425	73.3	-	45.3	-	1495
440	-	415	72.8	-	44.5	59	1460
430	-	405	72.3	-	43.6	-	1410
420	-	397	71.8	-	42.7	57	1370
410	-	288	71.4	-	41.8	-	1330
400	-	379	70.8	-	40.8	55	1290
390	-	369	70.3	-	39.8	-	1240
380	-	360	69.8	(110.0)	38.8	52	1205
370	-	350	69.2	-	37.7	-	1170
360	-	341	68.7	(109.0)	36.6	50	1130
350	-	331	68.1	-	35.5	-	1095
340	-	322	67.6	(108.0)	34.4	47	1070
330	-	313	67.0	-	33.3	-	1035

硬度换算表

Hardness Conversion Table

韦氏硬度 Vickers Hardness (HV)	布氏硬度 Brinell Hardness (HB)		洛氏硬度 Rockwell Hardness			肖氏硬度 Shore Hardness (HS)	抗拉强度 (近似值) Tensile Strength Mpa*
	标准球 Standard Ball	碳化钨球 Tungsten Carbide Ball	A量规 荷重60KGgf金钢石 圆锥压子 A Scale Load: 60kgf Diamond point (HRA)	B量规 荷重100Kgf,直径1.6mm (1/16 in),球HRB B Scale Load: 100kgf 1.6mm Dia.Ball (HRB)	C量规 荷重150kgf 金钢石圆锥压子HRC C Scale Load:150kgf Diamond Point (HRC)		
320	303	303	66.4	(107.0)	32.2	45	1005
310	294	294	65.8	-	31	-	980
300	284	284	65.2	-105.5	29.8	42	950
295	280	280	64.8	-	29.2	-	935
290	275	275	64.5	-104.5	28.5	41	915
285	270	270	64.2	-	27.8	-	905
280	265	265	63.8	103.5	27.1	40	890
275	261	261	63.5	-	26.4	-	875
270	256	256	63.1	102	25.6	38	855
265	252	252	62.7	-	24.8	-	840
260	247	247	62.4	(101.0)	24.0	37	825
255	243	243	62.0	-	23.1	-	805
250	238	238	61.6	99.5	22.2	36	795
245	233	233	61.2	-	21.3	-	780
240	228	228	60.7	98.1	20.3	34	765
230	219	219	-	96.7	(18.0)	33	730
220	209	209	-	95.0	(15.7)	32	695
210	200	200	-	93.4	(13.4)	30	670
200	190	190	-	91.5	(11.0)	29	635
190	181	181	-	89.5	(8.5)	28	605
180	171	171	-	87.1	(6.0)	26	580
170	162	162	-	85.0	(3.0)	25	545
160	152	152	-	81.7	(0.0)	24	515
150	143	143	-	78.7	-	22	490
140	133	133	-	75.0	-	21	455
130	124	124	-	71.2	-	20	425
120	114	114	-	66.7	-	-	390
110	105	105	-	62.3	-	-	-
100	95	95	-	56.2	-	-	-
95	90	90	-	52.0	-	-	-
90	86	86	-	48.0	-	-	-
85	81	81	-	41.0	-	-	-

■ 此表摘自 JIS 钢铁手册 (SAE J417)

注 (1) 1MPa=1N/mm²

(2) 表中()内值不是实际使用值,仅供参考使用

Extracted from JIS Handbook "Iron & Steel"(SAE J 417)

Note(1)1MPa=1N/mm²

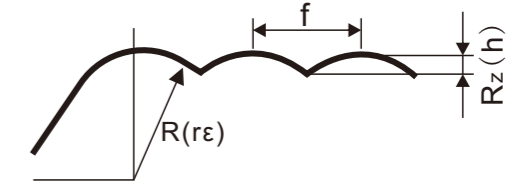
(2)Value in () is not in practical use, but reference only

表面粗糙度

Surface Roughness

理论 (几何) 表面粗糙度 Theoretical(Geometrical) surface Roughness

$$-R_z[h] = \frac{f^2}{8XR[r\epsilon]} \times 1,000$$



- R_z(h):理论表面粗糙度 Theoretical Surface Roughness(um)
- f:每旋转一周的进给量Feed Rate(mm/rev)
- R(rε):刀尖圆弧半径Corner Radius of Insert (mm)

表面粗糙度的计算方法

How to Obtain Surface Roughness Values

种类 Type	记号 Symbol	计算方法 How to obtain	说明图 Explanation
最大粗糙度 Max. Height Roughness	R _z	从粗糙线上沿平均线方向选取基准长度 (l), 在这部分中的最高峰高度与最低谷深度的和以微米表示的值, 这个就是R _z 值。 $R_z = R_p + R_v$ R _y is a mean value in micron meter obtained from the distance of the highest peaks and the lowest valleys within the range of sampled reference lengths (l) in the direction of the center line of the roughness curve. $R_z = R_p + R_v$	
十点平均粗糙度 Ten Points Mean Roughness	R _{ZJIS}	从粗糙线上沿平均线方向选取基准长度 (l), 在此长度中, 分别计算5个最高峰的平均值 (YP) 和5个最低谷的平均值 (YV)。然后相加, 以微米表示, 就得到R _{ZJIS} 值。 $R_{ZJIS} = \frac{(Yp1+Yp2+Yp3+Yp4+Yp5)+(Yv1+Yv2+Yv3+Yv4+Yv5)}{5}$ R _z is a mean value in micron meter obtained from the distance of 5 highest peaks (YP) and the 5 lowest valleys (YV) measured from the center line of the roughness curve within the range of sampled reference length (l) $R_{ZJIS} = \frac{(Yp1+Yp2+Yp3+Yp4+Yp5)+(Yv1+Yv2+Yv3+Yv4+Yv5)}{5}$	
算术平均粗糙度 Arithmetical Mean Roughness	R _a	从粗糙线上沿平均线方向选取基准长度 (l), 把中心线方向看出X轴方向, 与其垂直的为Y轴方向, 若粗糙线可以有方程y=f(x)表示, 则以微米表示R _a 值可以由以下方程式求出。 $R_a = \frac{1}{l} \int_0^l |f(x)| dx$ R _a is obtained from the following formula in micron meter, the roughness curve is expressed by y=f(x), the X-axis is in the direction of the center line and the Y-axis is the vertical magnification of the roughness curve in the range of sampled reference lengths (l). $R_a = \frac{1}{l} \int_0^l |f(x)| dx$	

与三角记号的关系 Relationship with Triangle Symbol

算术平均粗糙度 Arithmetical Mean Roughness R _a (um)	最大粗糙度 Max.Height Roughness R _z (um)	十点平均粗糙度 Ten Points Mean Roughness R _z JIS(um)	三角记号 Triangle Note
0.025 0.05 0.1 0.2	0.1 0.2 0.3 0.4 0.8	0.1 0.2 0.4 0.8	
0.4 0.8 1.6	1.6 3.2 6.3	1.6 3.2 6.3	
3.2 6.3	12.5 25	12.5 25	
12.5 25	50 100	50 100	

JIS标准记号的表示例 Indication in JIS Standard

Ra的记号表示例 Example of Ra Indication	Rz的记号表示例 Example of Rz Indication
①仅表示上限的情况 (上限为6.3umRa时) ①When indication the upper limit only (when upper limit is 6.3umRa) ②表示上限和下限的情况 (上限为6.3umRa、下限为1.6umRa时) ②When indication both lower and upper limit (when upper limit is 6.3umRa, lower limit is 1.6umRa)	①仅表示上限的情况, 在参数记号 后面列出表面粗糙度 ①When indication upper limit only indicate surface roughness following the parameter symbol. ②表示上限和下限的情况, 在参数 记号后面, 按照“上限~下限”的 形式表示表面粗糙度。 ②When indication both lower and upper limit indication surface roughness as (upper limit ~lower limit) following the parameter symbol.

请注意R_a和R_z的表示方式各不相同
Note: The indications of R_a and R_z are different.

使用表面粗糙度标记的注意事项 Surface Roughness Symbol Caution

以上资料是根据 JIS B 0601-2001 编制的。
为了与ISO标准一致, 从JIS B 0601-2001版开始, 变更为右表的记号。
The above information is based on JIS B 0601-2001.
However, some symbols were revised as shown in the right table in
accordance with ISO standard from JIS B 0601-2001 version.

种类 Type	记号Symbol (JIS B 0601-1994)	记号Symbol (JIS B 0601-2001)
最大粗糙度 Max.Height Roughness	R _v	R _z
十点平均粗糙度 Ten Points Mean Roughness	R _z	(R _z JIS)
算术平均粗糙度 Arithmetical Mean Roughness	R _a	R _a

车削加工的计算公式 Basic Formulas of Turning

所需功率 Power Requirement

$$P_C = \frac{K_s X V_c X a_p X f}{6120 X \eta}$$

$$P_{HP} = \frac{K_s X V_c X a_p X f}{4500 X \eta}$$

- P_C: 所需功率 Power Requirement(KW)
- P_{HP}: 所需功率 Power Requirement(Horse Power)(HP)
- V_C: 切削速度 Cutting Speed(m/min)
- f: 每转进给量 Feed Rate(mm/rev)
- a_p: 切深 Depth of Cut(mm)
- K_s: 比切削阻力 Specific Cutting Resistance(kgf/mm²)
- η: 机械效率 Mechanical Efficiency(0.7~0.8)

$$f = \frac{l}{n}$$

l (mm/min): 每分钟切削长度
Length of cut per minute

K_s的概略值 approximate value of K_s

铝 Aluminum: 800MPa
普通钢 General Steel: 2,500~3,000MPa
铸铁 Cast Iron: 1500MPa

软钢 (低碳钢) Low Carbon Steel	190	高碳合金钢 High Alloy Steel	245
中碳钢 Medium Carbon Steel	210	铸铁 Cast Iron	93
高碳钢 High Carbon Steel	240	可锻铸铁 Malleable Cast Iron	120
低碳合金钢 Low Alloy Steel	190	青铜/黄铜 Bronze, Brass	70

切削速度 Cutting Speed

$$V_c = \frac{\pi X D_m X n}{1000}$$

- V_C: 切削速度 Cutting Speed(m/min)
- n: 转速 Spindle Revolution(min⁻¹)
- D_m: 工件外径 Workpiece Diameter(mm)

表面粗糙度 Surface Roughness

$$R_z = h = \frac{f^2}{8XR(\gamma\varepsilon)} \times 1000$$

- R_z=h: 理论表面粗糙度 Theoretical Surface Roughness(um)
- f: 每转进给量 Feed Rate(mm/rev)
- R(γε): 刀尖半径 Corner Radius of Insert(mm)

实际表面粗糙度 Actual Surface Roughness	钢的场合: 理论粗糙度 (R _z) X1.5~3 steel: Theoretical Surface Roughness(R _z)X1.5~3 铸铁的场合: 理论粗糙度 (R _z) X3~5 Cast Iron: Theoretical Surface Roughness(R _z)X3~5
--	---

铣削加工的计算公式 Basic Formylas of Milling

所需功率 Power Requirement

$$P_c = \frac{K_s X Q}{6120 X \eta}$$

$$= \frac{K_s X a_e X V_f X a_p}{6120000 X \eta}$$

$$= \frac{K_s X a_e X f_z X z X n X a_p}{6120000 X \eta}$$

$$P_{HP} = \frac{6120}{4500} P_c$$

- P_c : 所需功率 Power Requirement(KW)
- P_{HP} : 所需功率 Power Requirement(Horse Power)(HP)
- a_e : 切削宽度 Width of Cut(mm)
- V_f : 工作台进给速度 Table Feed(mm/min)
- f_z : 每刃进给量 Feed per Tooth(mm/t)
- Z : 刀盘刀数 Number of Inserts(pcs)
- n : 主轴旋转数 Spindle Revolution(min^{-1})
- a_p : 切深 Depth of Cut(mm)
- K_s : 比切削阻力 Specific Cutting Resistance(kgf/mm^2)
- η : 机械效率 Mechanical Efficiency(0.7~0.8)
- Q : 切削排出量 Chip Removal Volume(cm^3/min)
- K_s 的概略值 approximate value of K_s

铝 Aluminum: 800MPa
普通钢 General Steel: 2,500~3,000MPa
铸铁 Cast Iron: 1500MPa

软钢 (低碳钢) Low Carbon Steel	190	高合金钢 High Alloy Steel	245
中碳钢 Medium Carbon Steel	210	铸铁 Cast Iron	93
高碳钢 High Carbon Steel	240	可锻铸铁 Malleable Cast Iron	120
低碳合金钢 Low Alloy Steel	190	青铜/黄铜 Bronze, Brass	70

切削排出量计算法 Chip Removal Volume

$$Q = \frac{a_c X V_f X a_p}{1000}$$

$$= \frac{a_e X f_z X z X n X a_p}{1000}$$

- Q : 切削排出量 Chip Removal Volume(cm^3/min)
- a_e : 切削宽度 Width of Cut(mm)
- V_f : 工作台进给速度 Table Feed(mm/min)
- f_z : 每刃进给量 Feed per Tooth(mm/t)
- Z : 刀盘刀数 Number of Inserts(pcs)
- n : 主轴旋转数 Spindle Revolution(min^{-1})
- a_p : 切深 Depth of Cut(mm)

工作台进给量和每刃进给量 Table Feed & Per Tooth

$$f_z = \frac{V_f}{z X n}$$

- f_z : 每刃进给量 Feed per Tooth(mm/t)
- V_f : 工作台进给速度 Table Feed(mm/min)
- Z : 刀盘刀数 Number of Inserts(pcs)
- n : 主轴旋转数 Spindle Revolution(min^{-1})

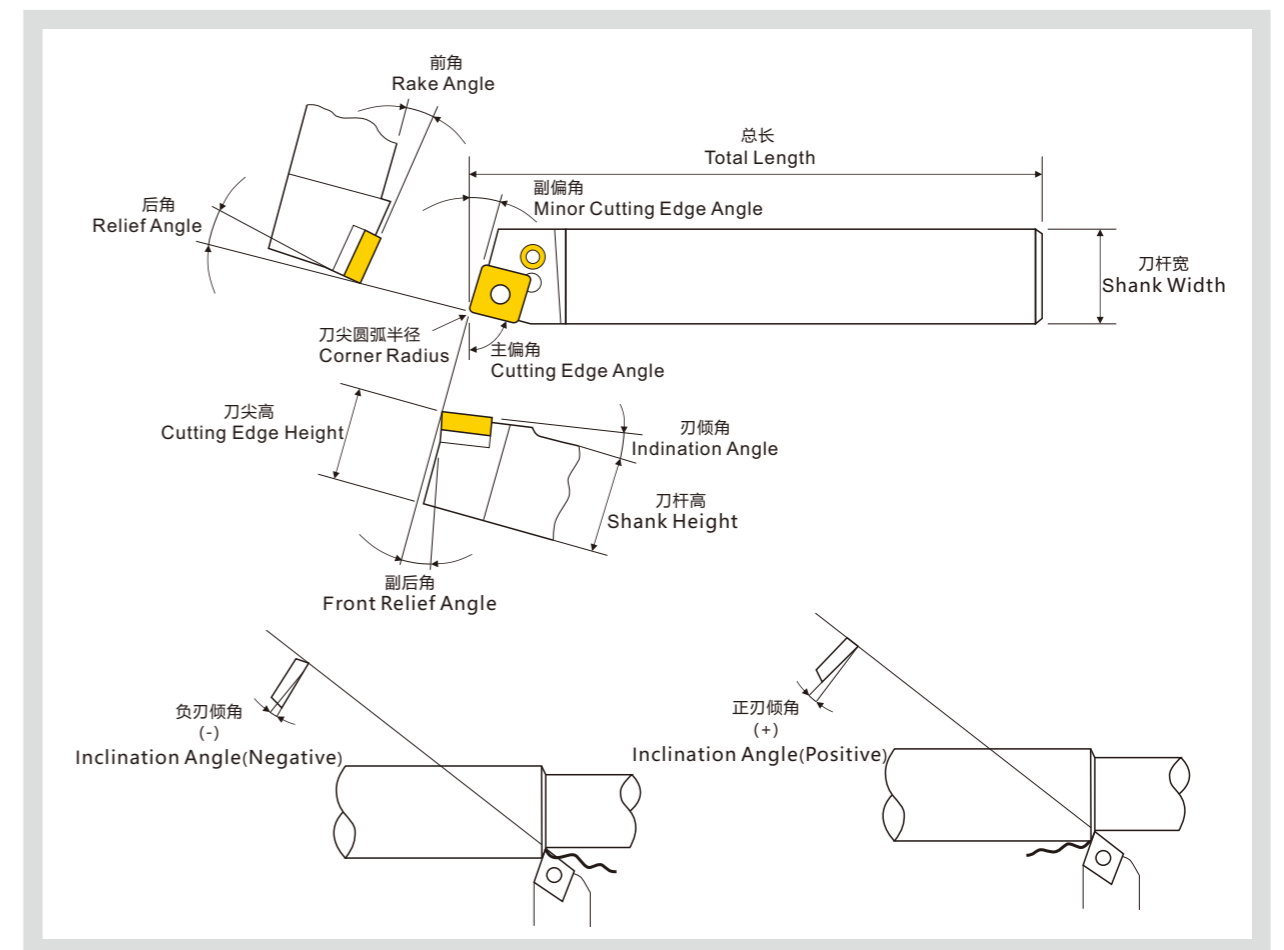
切削速度 Cutting Speed

$$V_c = \frac{\pi X D_s X n}{1000}$$

- V_c : 切削速度 Cutting Speed(m/min)
- n : 主轴旋转数 Spindle Revolution(min^{-1})
- D_s : 铣刀公称直径 Cutter Diameter(mm)

车刀各部分的名称角度

Terms and Angles of Turning Toolholder

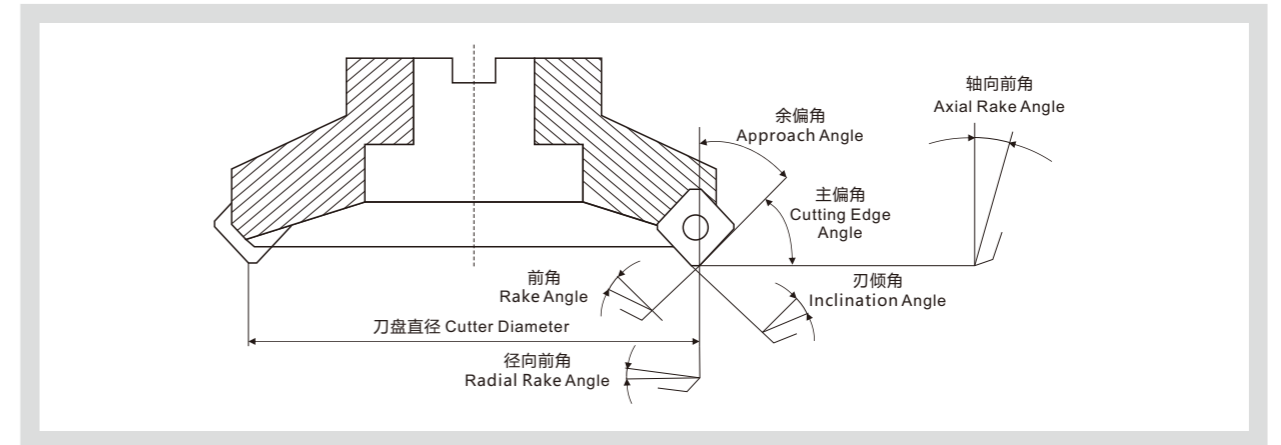


刀尖各角度的功能 Function of Tool Angle

刀尖角度 Tool Angle	作用 Function	效果 Effect
前角 Rake Angle	对切削阻力, 切削热, 切削排出, 工具寿命产生影响。 • Affects cutting force, cutting heat, chip evacuation and tool life.	正角时, 可得到更锋利的切削效果, 切削阻力减少, 但刀尖强度降低。 加工科加工性好或细工件时, 推荐使用正角。 若在黑皮或继续加工需要较强的刀尖强度时, 推荐使用较小的前角或负角。 • When it is positive (+) angle, sharper cutting performance is obtained, less cutting resistance but less edge strength. • Positive (+) angle is recommended for easy to machine workpieces or thin workpieces. • Smaller rake angle or negative (-) angle is recommended when a stronger edge is required like scale cutting or interrupted cutting.

刀尖角度 Tool Angle	作用 Function	效果 Effect
刃倾度 Inclination Angle	<p>重切削时，切削开始点的刀尖上要承受很大的冲击力，为防止刀尖受此力而发生脆性损伤，故需有刃倾角。</p> <ul style="list-style-type: none"> The corner will bear a strong impact when heavy cutting It needs a suitable cutting edge inclination angle to prevent fracture 	<p>刃倾角为负时，切屑流向工件，为正时反向排出；刃倾角为正时，切削刃强度增大，但切削背分力也增加，易产生振动。推荐车削时为3°~5°，铣削时10°~15°。</p> <ul style="list-style-type: none"> When it is negative---chip flows to the workpiece and vice versa. When it is positive---cutting edge strength improves, but the back cutting force also increases and it is inclined to produce vibration. Recommended values: Turning 3°~5°,Milling 10°~15°.
主后角 Relief Angle	<p>避免切刃以外的部分与加工面接触。</p> <ul style="list-style-type: none"> Prevents the tool's contact to the workpiece surface, except the cutting edge 	<p>若后角小，刀尖强度变大，但后刀面磨损在短时间内变大，刀具寿命也会变短。</p> <ul style="list-style-type: none"> When it is small, the cutting edge strength improves, but the wear at relief face increases, and tool life may decrease.
主偏角 Cutting Edge Angle	<p>影响切屑控制能力与切削力方向。</p> <ul style="list-style-type: none"> Affects chip control and the direction of cutting force 	<p>主偏角大时，切屑变厚且切屑控制能力提高</p> <ul style="list-style-type: none"> When it is large, chip thickness becomes thick and chip control improves.
副偏角 Minor Cutting Edge Angle	<p>减少已加工表面与刀具摩擦。</p> <ul style="list-style-type: none"> Prevents friction between cutting edge and work surface 	<p>副偏角小，切削刃强度增加，但刀尖发热；副偏角小，背分力增加，切削时易产生振动；粗加工时副偏角宜小些，而精加工时则宜大些。一般为5°~15°。</p> <ul style="list-style-type: none"> When it is small, the cutting edge strength will improve, but the tip is heated. When it is small, back cutting force increases and it is inclined to produce cutting vibration. It should be smaller for rough finishing, while it can be larger for rough finishing. Recommended values: 5°~15°.
刀尖圆弧半径 Corner Radius	<p>对刀尖的强度及加工表面粗糙度影响很大。</p> <ul style="list-style-type: none"> Affects tool nose strength and roughness of the finished surface 	<p>一般适宜值选进给量的2~3倍。</p> <ul style="list-style-type: none"> Recommended values: 2~3 times of feed rate.

铣刀各部分的名称角度 Terms and Angles of Milling Cutter



刀尖各角度的功能 Function of Tool Angle

刀尖角度 Tool Angle	作用 Function	效果 Effect
轴向前角 Axial Rake Angle	<p>控制切屑排出方向和切削力</p> <ul style="list-style-type: none"> Controls chip flow direction and cutting force 	<p>正角时，切削性能好，且不易发生切屑粘连。</p> <ul style="list-style-type: none"> When it is positive---Good cutting performance and less chip welding
径向前角 Radial Rake Angle	<p>控制切屑排出方向和切削力</p> <ul style="list-style-type: none"> Controls chip flow direction and cutting force 	<p>负角时，切屑排出性能好</p> <ul style="list-style-type: none"> When it is negative---Good chip evacuation
前角 Rake Angle	<p>决定实际切削刃锋利程度</p> <ul style="list-style-type: none"> Determines the real sharp degree of tool edge 	<p>正角时，切削性能好且不易发生切屑粘连，但切削刃强度下降；负角时，切削性能差，易发生切屑粘连，但是切削刃强度高。</p> <ul style="list-style-type: none"> When it is positive---Good cutting performance and less chip welding, but lower edge strength When it is negative---Higher edge strength but easier to weld
余偏角 Approach Angle	<p>决定切屑厚度和切屑排出方向</p> <ul style="list-style-type: none"> Controls chip thickness and chip flow direction 	<p>角度大时，切屑厚度变小，切屑负荷变小，但背分力大。</p> <ul style="list-style-type: none"> When it is large---Thinner chip thickness and lower cutting load
刃倾角 Inclination Angle	<p>决定切屑排出方向</p> <ul style="list-style-type: none"> Controls chip flow direction 	<p>正角时，切屑排出好切屑阻力小，但切削刃强度较小。</p> <ul style="list-style-type: none"> When it is positive---Good chip evacuation, less cutting resistance and lower edge stability of the corner part

