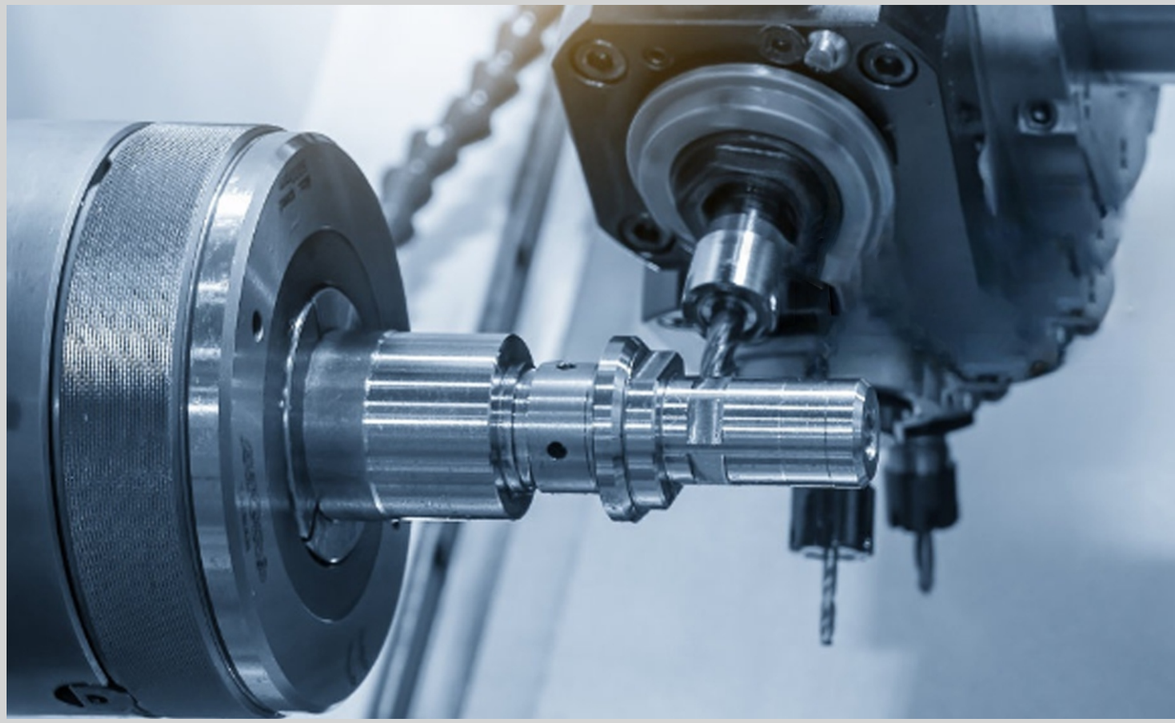
KOVES®
科维丝工具

整体圆柄刀具
Solid Round Cutting Tools



合金铣刀/合金钻头/丝攻

CARBIDE MILLING CUTTER/
CARBIDE DRILL/
THREAD TAPS

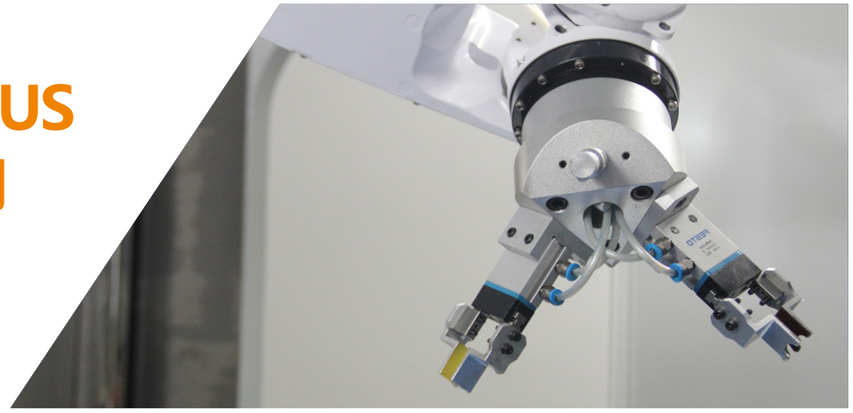
KOVES®
科维丝工具

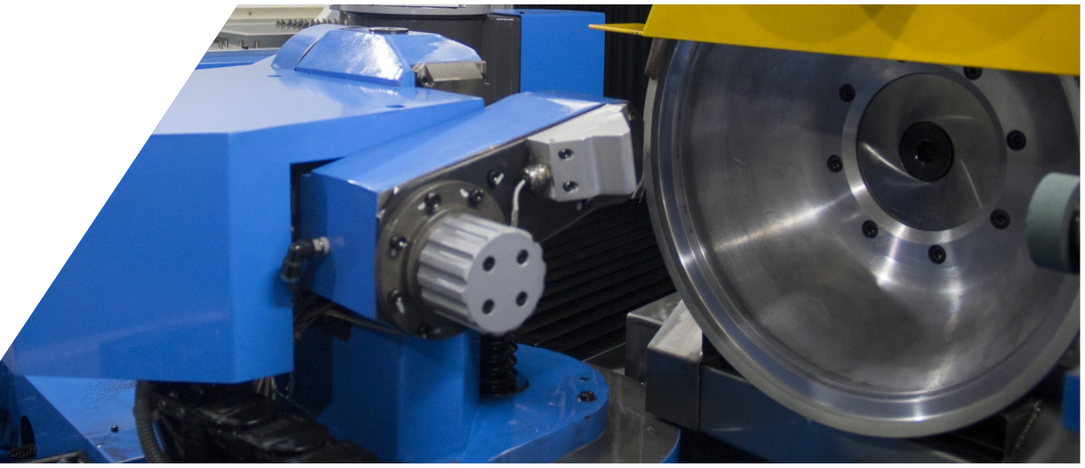
2025 SOLID ROUND CUTTING TOOLS

KOVES®
科维丝工具

东莞市科维丝精密工具有限公司
广东省东莞市长安镇乌沙社区蔡屋村振昌路7号
DONGGUAN KOVES PRECISION TOOLS CO.,LTD
NO.7Zhenchang Road Changan Town, Dongguan City, China
Http:// www.pcbn.com
E-maill: koves@pcbn.com

ABOUT US
关于我们





科维丝公司是一家专注于切削工具生产与销售的企业。
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、刀片及附件；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,specialized in developing and selling industrial products. since established in 2009,from tne very beginning,koves pay attention to technical service as basement,we are has"hign performance cnc cutting tools and systems technology laboratory",also our according to the customer's product and process requirements formulation and optimization of manufacturing process;reasonable selection of cutting parameters;calculating cycle times;selest tools,cutters,blades and accessories;customized non-standard tool;provide a full range of technical services related to mechanical processing.

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L-Carbide Milling Cutter

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M-Carbide Drill

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N-Thread Taps

合金铣刀
Carbide Milling Cutter



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型号详细说明. L01
Model No. Detailed explanation

合金铣刀 Carbide Milling Cutter

HP-MAX: 通用加工系列. L02-L07
HP-MAX: General Machining Series

HM-MAX: 多功能加工系列. L08-L17
HM-MAX: Multi-Function Machining Series

HY-MAX: 高硬材料加工系列. L18-L20
HY-MAX: High Hardness Material Machining Series

HS-MAX: 不锈钢加工系列. L21-L25
HS-MAX: Stainless steel Machining Series

XS-MAX: 不等分螺旋角不锈钢加工系列. L26-L28
XS-MAX: Unequal Helix Angle Stainless steel Machining Series

ALU-MAX: 铝合金加工系列. L29-L34
ALU-MAX: Aluminum Machining Series

CO-MAX: 铜铝加工系列. L35-L40
CO-MAX: Copper & Aluminum Machining Series

CO-MAX: 铜铝加工系列(小径). L41-L56
CO-MAX: Copper & Aluminum Machining Series(Mircro Diameter)

HR-MAX: 深沟微小径系列. L57-L64
HR-MAX:Long Neck Micro End Mills Series

DIA-MAX: 石墨加工系列. L65-L70
DIA-MAX: Graphite Machining Series

螺纹铣刀系列. L71-L80
Thread Milling Cutter Series

锯片铣刀系列. L81-L86
Saw Blade Milling Cutter Series

型号详细说明
Detailed explanation of the model

类型 TYPE
B:球头铣刀 Ball End Mill
E:平底铣刀 Flat End Mill
R:圆鼻铣刀 Radius End Mill
RE:粗皮铣刀 Roughing End Mill

螺旋角 Helix Angle
25:25°
27:27°
30:30°
35:35°
45:45°
55:55°

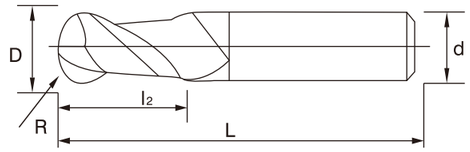
HP B L 2 30 - 080 R0.2 080 - 100 - S08

- HP → 系列 Series
  - HP-MAX
  - HM-MAX
  - HY-MAX
  - HS-MAX
  - HR-MAX
  - ALU-MAX
  - DIA-MAX
  - CO-MAX
- B → 类型 TYPE
- L → L: 加长 Long Length
  - 无标记 NO MARK: 标长 Standard Length
- 2 → 切削刃数 Cutting Flutes
  - 2:2F
  - 3:3F
  - 4:4F
  - 6:6F
- 30 → 螺旋角 Helix Angle
- 080 → 刃径 Cutting Diameter
- R0.2 → R角 Radius Of Cutting Edge
- 080 → 刃长 Cutting Length
- 100 → 总长 Overall Length
- S08 → 柄径 Shank Diameter

HPB230 二刃球头铣刀
HP-MAX Ball End Mill 2-Flute 30°

CARBIDE MG | HP MAX | 2 | 30° Helix | R ±0.005 D≤6 | R ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

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.
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

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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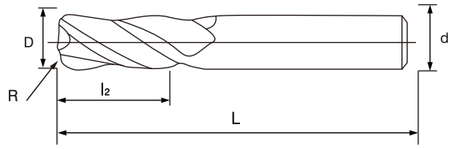
◎最适合Fit best ○适合Fit

HPR435 四刃圆鼻铣刀

HP-MAX Rudius End Mill 4-Flute 35°

CARBIDE MG | HP MAX | 4 | 35° Helix | CR ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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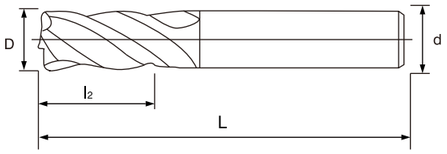
◎最适合Fit best ○适合Fit

HPE435 四刃平底铣刀

HP-MAX Flat End Mill 4-Flute 35°

CARBIDE MG | HP MAX | 4 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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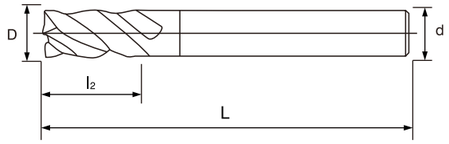
◎最适合Fit best ○适合Fit

HPEL435四刃加长柄平底铣刀

HP-MAX Long Flute Flat End Mill 4-Flute 35°

CARBIDE MG | HP MAX | 4 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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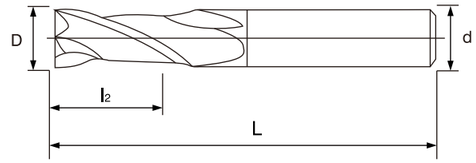
*最适合Fit best ○适合Fit

HPE235 二刃平底铣刀

HP-MAX Flat End Mill 2-Flute 35°

CARBIDE MG | HP MAX | 2 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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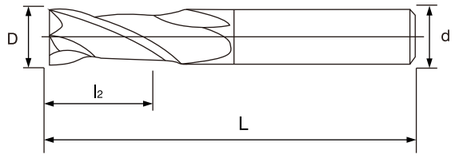
*最适合Fit best ○适合Fit

HPEL235二刃加长柄平底铣刀

HP-MAX Long Flute Flat End Mill 2-Flute 35°

CARBIDE MG | HP MAX | 2 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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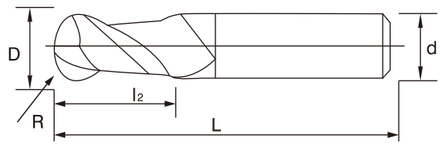
◎最适合Fit best ○适合Fit

HMB230二刃球头铣刀

HM-MAX Ball End Mill 2-Flute 30°

CARBIDE SUPER | HM MAX | 2 | 30° Helix | R ±0.005 D≤6 | R ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
HMB230-010020-050-S04	1	0.5	2	50	4
HMB230-020040-050-S04	2	1.0	4	50	4
HMB230-030060-050-S04	3	1.5	6	50	4
HMB230-040080-050-S04	4	2.0	8	50	6
HMB230-040080-050-S06	4	2.0	8	50	6
HMB230-050100-050-S06	5	2.5	10	50	6
HMB230-060120-050-S06	6	3.0	12	50	6
HMB230-060120-075-S06	6	3.0	12	75	6
HMB230-060120-100-S06	6	3.0	12	100	6
HMB230-080160-060-S08	8	4.0	16	60	8
HMB230-080160-075-S08	8	4.0	16	75	8
HMB230-080160-100-S08	8	4.0	16	100	8
HMB230-100200-075-S10	10	5.0	20	75	10
HMB230-100200-100-S10	10	5.0	20	100	10
HMB230-120240-075-S12	12	6.0	24	75	12
HMB230-120240-100-S12	12	6.0	24	100	12

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	○	◎	◎				◎													

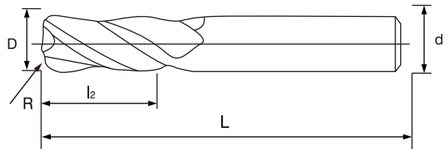
◎最适合Fit best ○适合Fit

HMR435 四刃圆鼻铣刀

HM-MAX Radius End Mill 4-Flute 35°

CARBIDE SUPER | HM MAX | 4 | 35° Helix | CR ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	R R角 Corner R	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
HMR435-010030R0.2-050-S04	1	0.2	3	50	4
HMR435-020060R0.2-050-S04	2	0.2	6	50	4
HMR435-030080R0.2-050-S04	3	0.2	8	50	4
HMR435-030080R0.5-050-S04	3	0.5	8	50	4
HMR435-040110R0.2-050-S04	4	0.2	11	50	4
HMR435-040110R0.5-050-S04	4	0.5	11	50	4
HMR435-060160R0.2-050-S06	6	0.2	16	50	6
HMR435-060160R0.5-050-S06	6	0.5	16	50	6
HMR435-060160R1.0-050-S06	6	1	16	50	6
HMR435-060160R0.5-075-S06	6	0.5	16	75	6
HMR435-060160R1.0-075-S06	6	1	16	75	6
HMR435-060160R0.5-100-S06	6	0.5	16	100	6
HMR435-060160R1.0-100-S06	6	1	16	100	6
HMR435-080200R0.5-060-S08	8	0.5	20	60	8
HMR435-080200R1.0-060-S08	8	1	20	60	8
HMR435-080200R0.5-075-S08	8	0.5	20	75	8
HMR435-080200R1.0-075-S08	8	1	20	75	8
HMR435-080200R0.5-100-S08	8	0.5	20	100	8
HMR435-080200R1.0-100-S08	8	1	20	100	8
HMR435-100250R0.5-075-S10	10	0.5	25	75	10
HMR435-100250R0.5-075-S10	10	1	25	75	10
HMR435-100250R0.5-100-S10	10	0.5	25	100	10
HMR435-100250R1.0-100-S10	10	1	25	100	10
HMR435-120300R0.5-075-S12	12	0.5	30	75	12
HMR435-120300R1.0-075-S12	12	1	30	75	12
HMR435-120300R0.5-100-S12	12	0.5	30	100	12
HMR435-120300R1.0-100-S12	12	1	30	100	12

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 Chilled Hardened Steel			铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
			~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC														
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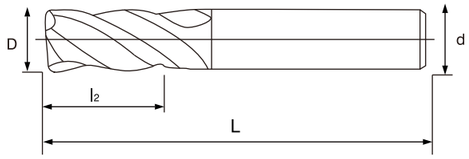
*最适合Fit best ○适合Fit

HME435四刃平底铣刀

HM-MAX Flat End Mill 4-Flute 35°

CARBIDE SUPER | HM MAX | 4 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

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 Chilled Hardened Steel			铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
			~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC														
◎	◎	○	◎	◎				◎													

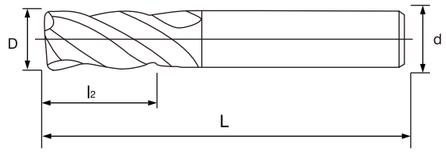
*最适合Fit best ○适合Fit

HMEL435四刃加长柄平底铣刀

HM-MAX Long Flute Flat End Mill 4-Flute 35°

CARBIDE SUPER | HM MAX | 4 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 ~50 HRC	淬火钢 Chilled Hardened Steel ~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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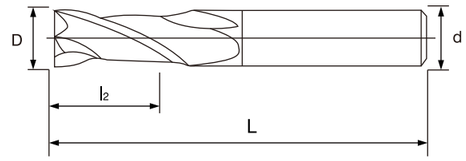
*最适合Fit best ○适合Fit

HME235二刃平底铣刀

HM-MAX Flat End Mill 2-Flute 35°

CARBIDE SUPER | HM MAX | 2 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.0 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

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 ~50 HRC	淬火钢 Chilled Hardened Steel ~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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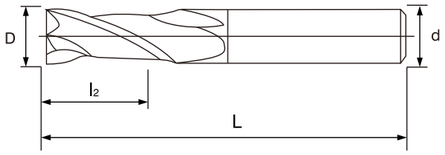
*最适合Fit best ○适合Fit

HMEL235二刃加长柄平底铣刀

HM-MAX Long Flute Flat End Mill 2-Flute 35°

CARBIDE SUPER | HM MAX | 2 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 ~50 HRC	淬火钢 Chilled Hardened Steel ~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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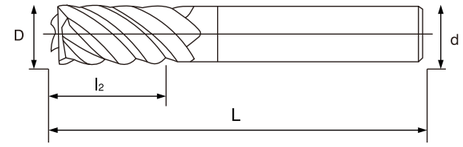
*最适合Fit best ○适合Fit

HME645六刃平底铣刀

HM-MAX Flat End Mill 6-Flute 45°

CARBIDE SUPER | HM MAX | 6 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 ~50 HRC	淬火钢 Chilled Hardened Steel ~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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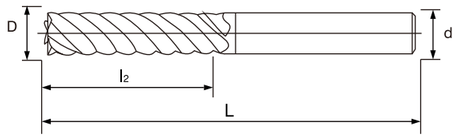
*最适合Fit best ○适合Fit

HMEL645六刃加长柄平底铣刀

HM-MAX Long Flute Flat End Mill 6-Flute 45°

CARBIDE SUPER | HM MAX | 6 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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	45	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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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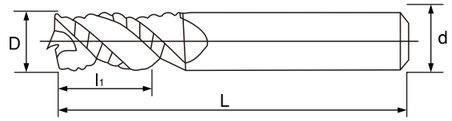
◎最适合Fit best ○适合Fit

HMRE430 四刃粗皮铣刀

HM-MAX Roughing Flat End Mill 4-Flute 30°

CARBIDE SUPER | HM MAX | 4 | 30° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
HMRE430-030080-050-S04	3	8	50	4
HMRE430-040100-050-S04	4	10	50	4
HMRE430-060150-060-S06	6	15	60	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

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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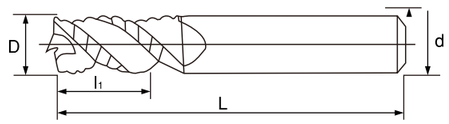
◎最适合Fit best ○适合Fit

HMREL430 四刃加长柄粗皮铣刀

HM-MAX Long Flute Roughing Flat End Mill 4-Flute 30°

CARBIDE SUPER | HM MAX | 4 | 30° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	○	◎	◎				◎													

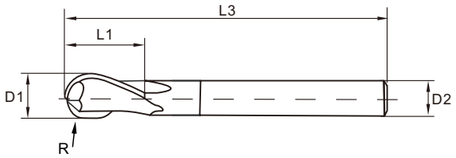
◎最适合Fit best ○适合Fit

HYB230 二刃球头铣刀

HY-MAX Ball End Mill 2-Flute 30°

CARBIDE NANO | HY MAX | 2 | 30° Helix | R ±0.005 | D 0/-0.015





产品规格 | PRODUCT SPECIFICATION

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.
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	R1.0	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

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	○	◎	◎	◎	◎		◎													

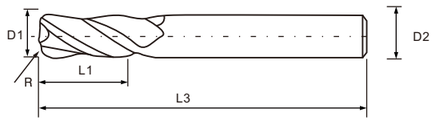
◎最适合Fit best ○适合Fit

HYR435 四刃圆鼻铣刀

HY-MAX Rudius End Mill 4-Flute 35°

CARBIDE NANO | HY MAX | 4 | 35° Helix | CR ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

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
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
HYR435-060150R0.5-100-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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	○	◎	◎	◎	◎		◎													

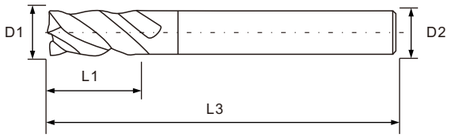
◎最适合Fit best ○适合Fit

HYE445 四刃平底铣刀

HY-MAX Flat End Mill 4-Flute 45°

CARBIDE NANO | HY MAX | 4 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

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.
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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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

HY-MAX切削参数
HY-MAX CUTTING PARAMETERS



侧铣
Side milling

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	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	转速 N (min-1)	35000	17500	11600	8700	7000	5800
				ae≤0.02D	进给 F(mm/min)	1400	1400	1400	1400	1300	1300
		普通加工 General	100	ap≤1D	转速 N (min-1)	15900	7900	5300	3900	3100	2600
				ae≤0.05D	进给 F(mm/min)	630	630	630	600	590	580
	合金钢 淬硬钢 Alloy Steel Hardened Steel 55-65HRC	高速加工 High Speed	140	ap≤0.3D	转速 N (min-1)	22000	11000	7400	5500	4400	3700
				ae≤0.01D	进给 F(mm/min)	700	660	680	660	670	620
		普通加工 General	80	ap≤0.7D	转速 N (min-1)	12700	6400	4200	3200	2500	2100
				ae≤0.03D	进给 F(mm/min)	400	380	390	380	380	350



仿形铣
Copying milling

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	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	转速 N (min-1)	35000	17500	11600	8700	7000	5800
				ae≤0.03D	进给 F(mm/min)	1400	1400	1400	1400	1300	1300
		普通加工 General	150	ap≤0.08D	转速 N (min-1)	24000	12000	7900	5900	4800	4000
				ae≤0.03D	进给 F(mm/min)	960	960	950	950	890	900



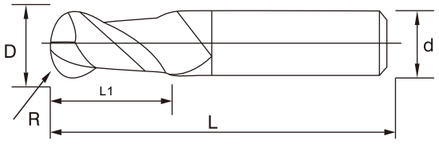
侧铣
Side milling

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	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	转速 N (min-1)	35000	17500	11600	8700	7000	5800
				ae≤0.02D	进给 F(mm/min)	1400	1400	1400	1400	1300	1300
		普通加工 General	100	ap≤1D	转速 N (min-1)	15900	7900	5300	3900	3100	2600
				ae≤0.05D	进给 F(mm/min)	630	630	630	600	590	580
	合金钢 淬硬钢 Alloy Steel Hardened Steel 55-65HRC	高速加工 High Speed	140	ap≤0.3D	转速 N (min-1)	22000	11000	7400	5500	4400	3700
				ae≤0.01D	进给 F(mm/min)	700	660	680	660	670	620
		普通加工 General	80	ap≤0.7D	转速 N (min-1)	12700	6400	4200	3200	2500	2100
				ae≤0.03D	进给 F(mm/min)	400	380	390	380	380	350

HSB230 二刃球头铣刀
HS-MAX Ball End Mill 2-Flute 30°

CARBIDE SUPER | HS MAX | 2 | 30° Helix | R ±0.005 D≤6 | R ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

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.
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

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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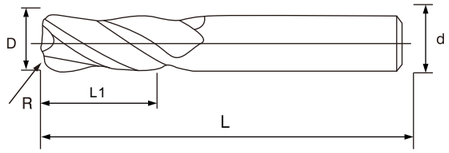
●最适合Fit best ○适合Fit

HSR435 四刃圆鼻铣刀

HS-MAX Rudius End Mill 4-Flute 35°

CARBIDE SUPER | HS MAX | 4 | 35° Helix | CR ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

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.
HSR435-010030R0.2-050-S04	1	0.2	3	50	4
HSR435-020060R0.2-050-S04	2	0.2	6	50	4
HSR435-030080R0.2-050-S04	3	0.2	8	50	4
HSR435-030080R0.5-050-S04	3	0.5	8	50	4
HSR435-040110R0.2-050-S04	4	0.2	11	50	4
HSR435-040110R0.5-050-S04	4	0.5	11	50	4
HSR435-060160R0.2-050-S06	6	0.2	16	50	6
HSR435-060160R0.5-050-S06	6	0.5	16	50	6
HSR435-060160R1.0-050-S06	6	1	16	50	6
HSR435-060160R0.5-075-S06	6	0.5	16	75	6
HSR435-060160R1.0-075-S06	6	1	16	75	6
HSR435-060160R0.5-100-S06	6	0.5	16	100	6
HSR435-060160R1.0-100-S06	6	1	16	100	6
HSR435-080200R0.5-060-S08	8	0.5	20	60	8
HSR435-080200R1.0-060-S08	8	1	20	60	8
HSR435-080200R0.5-075-S08	8	0.5	20	75	8
HSR435-080200R1.0-075-S08	8	1	20	75	8
HSR435-080200R0.5-100-S08	8	0.5	20	100	8
HSR435-080200R1.0-100-S08	8	1	20	100	8
HSR435-100250R0.5-075-S10	10	0.5	25	75	10
HSR435-100250R1.0-075-S10	10	1	25	75	10
HSR435-100250R0.5-100-S10	10	0.5	25	100	10
HSR435-100250R1.0-100-S10	10	1	25	100	10
HSR435-120300R0.5-075-S12	12	0.5	30	75	12
HSR435-120300R1.0-075-S12	12	1	30	75	12
HSR435-120300R0.5-100-S12	12	0.5	30	100	12
HSR435-120300R1.0-100-S12	12	1	30	100	12

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

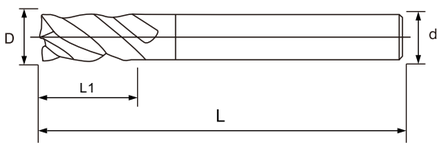
◎最适合Fit best ○适合Fit

HSE435 四刃平底铣刀

HS-MAX Flat End Mill 4-Flute 35°

CARBIDE SUPER | HS MAX | 4 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D1 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

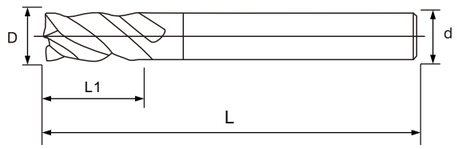
◎最适合Fit best ○适合Fit

HSEL435 四刃加长柄平底铣刀

HS-MAX Long Flute Flat End Mill 4-Flute 35°

CARBIDE SUPER | HS MAX | 4 | 35° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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	12	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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

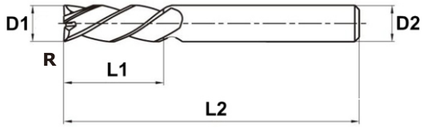
◎最适合Fit best ○适合Fit

XSR445 四刃圆鼻铣刀

XS-MAX Rudius End Mill 4-Flute 45°

CARBIDE SUPER | XS MAX | 4 | 45° Helix | CR ±0.01 D>6 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	F 切削刃数 Cutting Flute	A 螺旋升角 Helix Angle	D1 直径 Diameter	L1 刃长 Flute Length	R R角 Corner R	L2 总长度 Overall Length	D2 柄径 Shank Dia
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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

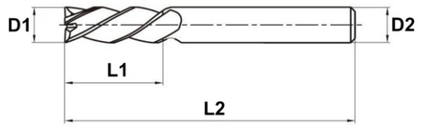
◎最适合Fit best ○适合Fit

XSE445 四刃平底铣刀

XS-MAX Flat End Mill 4-Flute 45°

CARBIDE SUPER | XS MAX | 4 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	F 切削刃数 Cutting Flute	A 螺旋升角 Helix Angle	D1 直径 Diameter	L1 刃长 Flute Length	L2 总长度 Overall Length	D2 柄径 Shank Dia
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°	1. 5	3	50	4
XSE445-015040-050-S04	4F	45°	1. 5	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°	2. 5	5	50	4
XSE445-025070-050-S04	4F	45°	2. 5	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°	3.5	7	50	4
XSE445-035100-050-S04	4F	45°	3.5	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

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 Chilled Steel ~50 HRC	Hardened Steel ~55 HRC	Hardened Steel ~60 HRC	Hardened Steel ~62 HRC	Hardened Steel ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

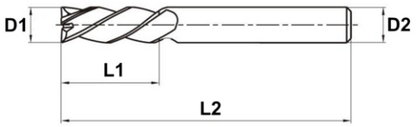
*最适合Fit best ○适合Fit

XSEL445 四刃加长柄平底铣刀

XS-MAX Long flute Flat End Mill 4-Flute 45°

CARBIDE SUPER | XS MAX | 4 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	F 切削刃数 Cutting Flute	A 螺旋升角 Helix Angle	D1 直径 Diameter	L1 刃长 Flute Length	L2 总长度 Overall Length	D2 柄径 Shank Dia
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

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 Chilled Steel ~50 HRC	Hardened Steel ~55 HRC	Hardened Steel ~60 HRC	Hardened Steel ~62 HRC	Hardened Steel ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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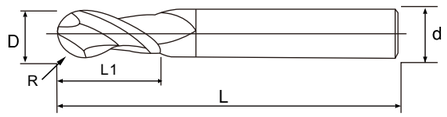
*最适合Fit best ○适合Fit

ALB230 二刃球头铣刀

ALU-MAX Ball End Mill 2-Flute 30°

CARBIDE NANO | 2 | 30° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6 | R ±0.005 D≤6 | R ±0.01 D>6





产品规格 | PRODUCT SPECIFICATION

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.
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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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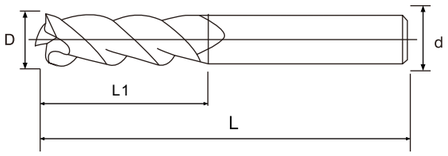
◎最适合Fit best ○适合Fit

ALE345 三刃平底铣刀

ALU-MAX Flat End Mill 3-Flute 45°

CARBIDE NANO | 3 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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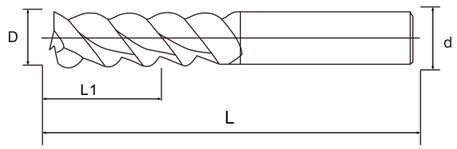
◎最适合Fit best ○适合Fit

ALEL345 三刃加长柄平底铣刀

ALU-MAX Long Flute Flat End Mill 3-Flute 45°

CARBIDE NANO | 3 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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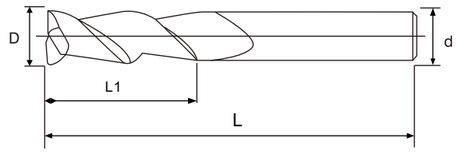
◎最适合Fit best ○适合Fit

ALE255 二刃平底铣刀

ALU-MAX Flat End Mill 2-Flute 55°

CARBIDE NANO | 2 | 55° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

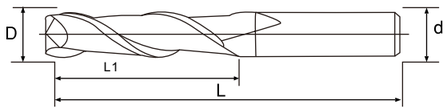
◎最适合Fit best ○适合Fit

ALEL255 二刃加长柄平底铣刀

ALU-MAX Long Flute Flat End Mill 2-Flute 55°

CARBIDE NANO | 2 | 55° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

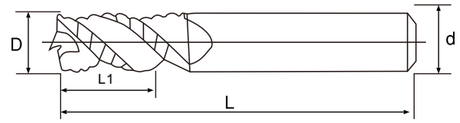
◎最适合Fit best ○适合Fit

ALRE327 三刃粗皮铣刀

ALU-MAX Roughing Flat End Mill 3-Flute 27°

CARBIDE NANO | 3 | 27° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
ALRE327-040120-050-S04	4	12	50	4
ALRE327-060150-050-S06	6	15	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

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

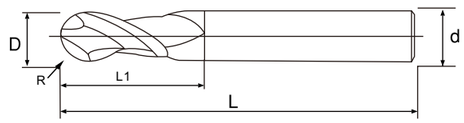
◎最适合Fit best ○适合Fit

COB230 二刃球头铣刀

CO-MAX Ball End Mill 2-Flute 30°

CARBIDE NANO | CO MAX | 2 | 30° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6 | R ±0.005 D≤6 | R ±0.01 D>6 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

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.
COB230-020040-050-S04	2.0	1.0	4	50	4
COB230-030060-050-S04	3.0	1.5	6	50	4
COB230-040080-050-S04	4.0	2.0	8	50	4
COB230-040080-075-S04	4.0	2.0	8	75	4
COB230-040080-050-S06	4.0	2.0	8	50	6
COB230-050100-050-S06	5.0	2.5	10	50	6
COB230-060120-050-S06	6.0	3.0	12	50	6
COB230-060120-075-S06	6.0	3.0	12	75	6
COB230-060120-100-S06	6.0	3.0	12	100	6
COB230-080160-060-S08	8.0	4.0	16	60	8
COB230-080160-075-S08	8.0	4.0	16	75	8
COB230-080160-100-S08	8.0	4.0	16	100	8
COB230-100200-075-S10	10	5.0	20	75	10
COB230-100200-075-S10	10	5.0	20	100	10
COB230-120240-075-S12	12	6.0	24	75	12
COB230-120240-100-S12	12	6.0	24	100	12

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 Chilled Steel ~50 HRC	Hardened Steel ~55 HRC	Hardened Steel ~60 HRC	Hardened Steel ~62 HRC	Hardened Steel ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

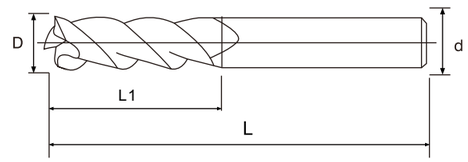
◎最适合Fit best ○适合Fit

COE345三刃平底铣刀

CO-MAX Flat End Mill 3-Flute 45°

CARBIDE NANO | CO MAX | 3 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

加工材料 Work Material

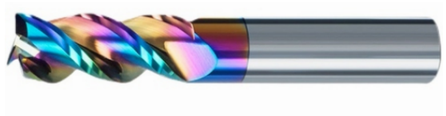
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Steel ~50 HRC	Hardened Steel ~55 HRC	Hardened Steel ~60 HRC	Hardened Steel ~62 HRC	Hardened Steel ~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 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
◎	◎	◎	○					○													

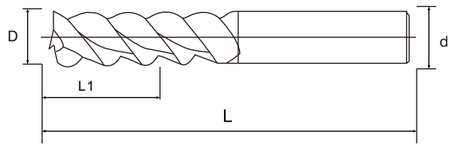
◎最适合Fit best ○适合Fit

COEL345三刃加长柄平底铣刀

CO-MAX Long Flute Flat End Mill 3-Flute 45°

CARBIDE NANO | CO MAX | 3 | 45° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

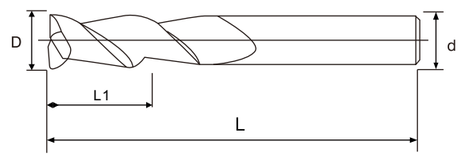
◎最适合Fit best ○适合Fit

COE255二刃平底铣刀

CO-MAX Flat End Mill 2-Flute 55°

CARBIDE NANO | CO MAX | 2 | 55° Helix | D 0/-0.015 D≤5 | D 0/-0.02 D≥6 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

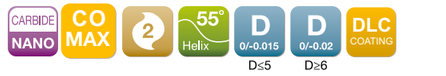
加工材料 Work Material

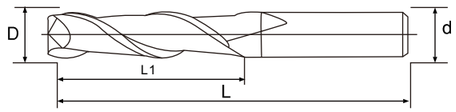
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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

COEL255二刃加长柄平底铣刀

CO-MAX Long Flute Flat End Mill 2-Flute 55°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
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

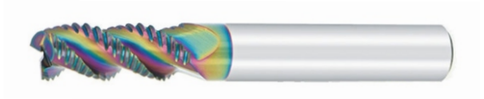
加工材料 Work Material

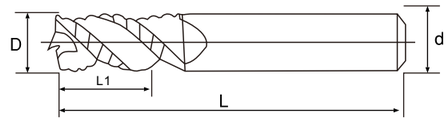
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	L1 刃长 Flute Length	L 全长 O.A.L.	d 柄径 Shank Dia.
COR327-040120-050-S04	4	12	50	4
COR327-060160-050-S06	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

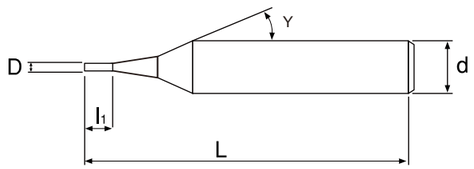
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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

COE-230 二刃微小径平底铣刀

CO-MAX Micro Flat End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l1 刃长 Flute length	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COE230-001002-042-S04	0.1	0.2	15°	d4	42
COE230-0015003-045-S04	0.15	0.3	15°	d4	45
COE230-002004-045-S04	0.2	0.4	15°	d4	45
COE230-0025005-045-S04	0.25	0.5	15°	d4	45
COE230-003006-045-S04	0.3	0.6	15°	d4	45
COE230-0035007-045-S04	0.35	0.7	15°	d4	45
COE230-004008-045-S04	0.4	0.8	15°	d4	45
COE230-0045009-045-S04	0.45	0.9	15°	d4	45
COE230-005010-045-S04	0.5	1	15°	d4	45
COE230-0055011-045-S04	0.55	1.1	15°	d4	45
COE230-006012-045-S04	0.6	1.2	15°	d4	45
COE230-0065013-045-S04	0.65	1.3	15°	d4	45
COE230-007014-045-S04	0.7	1.4	15°	d4	45
COE230-0075015-045-S04	0.75	1.5	15°	d4	45
COE230-008016-045-S04	0.8	1.6	15°	d4	45
COE230-0085017-045-S04	0.85	1.7	15°	d4	45
COE230-009018-045-S04	0.9	1.8	15°	d4	45

加工材料 Work Material

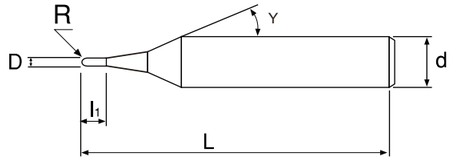
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COB-230 二刃微小径球头铣刀

CO-MAX Micro Ball End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	R 球半径 Ball radius	D 刃径 Diameter	l1 刃长 Flute length	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COB230-0010015-042-S04	R0.05	0.1	0.15	15°	d4	42
COB230-0015002-045-S04	R0.075	0.15	0.2	15°	d4	45
COB230-002003-045-S04	R0.1	0.2	0.3	15°	d4	45
COB230-0030045-045-S04	R0.15	0.3	0.45	15°	d4	45
COB230-004006-045-S04	R0.2	0.4	0.6	15°	d4	45
COB230-005008-045-S04	R0.25	0.5	0.8	15°	d4	45
COB230-006009-045-S04	R0.3	0.6	0.9	15°	d4	45
COB230-007011-045-S04	R0.35	0.7	1.1	15°	d4	45
COB230-008012-045-S04	R0.4	0.8	1.2	15°	d4	45
COB230-009014-045-S04	R0.45	0.9	1.4	15°	d4	45

加工材料 Work Material

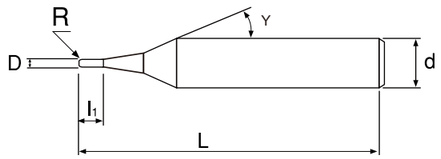
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COR-230 二刃微小径圆鼻铣刀

CO-MAX Micro Radius End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	R R角半径 R-Angle radius	l1 刃长 Flute length	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COR230-002004R0.02-045-S04	0.2	0.02	0.4	15°	4	45
COR230-002004R0.05-045-S04		0.05				45
COR230-003006R0.02-045-S04	0.3	0.02	0.6	15°	4	45
COR230-003006R0.05-045-S04		0.05				45
COR230-004008R0.02-045-S04	0.4	0.02	0.8	15°	4	45
COR230-004008R0.05-045-S04		0.05				45
COR230-004008R0.1-045-S04		0.1				45
COR230-005010R0.02-045-S04	0.5	0.02	1.0	15°	4	45
COR230-005010R0.05-045-S04		0.05				45
COR230-005010R0.1-045-S04		0.1				45
COR230-006012R0.02-045-S04	0.6	0.02	1.2	15°	4	45
COR230-006012R0.05-045-S04		0.05				45
COR230-006012R0.1-045-S04		0.1				45
COR230-006012R0.2-045-S04		0.2				45
COR230-008016R0.02-045-S04	0.8	0.02	1.6	15°	4	45
COR230-008016R0.05-045-S04		0.05				45
COR230-008016R0.1-045-S04		0.1				45
COR230-008016R0.2-045-S04		0.2				45

加工材料 Work Material

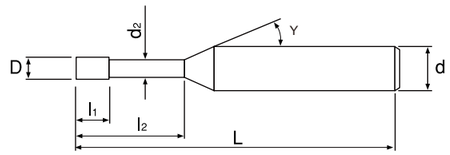
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COE-230 二刃深沟平底铣刀

CO-MAX Long Neck Micro Flat End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COE230-001003-045-S04	0.1	0.3	0.1	0.085	15°	4	45
COE230-001005-045-S04		0.5					45
COE230-001008-045-S04		0.8					45
COE230-001010-045-S04		1					45
COE230-0015005-045-S04	0.15	0.5	0.15	0.13	15°	4	45
COE230-0015010-045-S04		1					45
COE230-002010-045-S04	0.2	1	0.2	0.18	15°	4	45
COE230-002015-045-S04		1.5	0.2	0.18	12°	4	45
COE230-002020-045-S04		2					45
COE230-002030-045-S04		3					45
COE230-002040-045-S04		4					45
COE230-003010-045-S04	0.3	1	0.3	0.27	15°	4	45
COE230-003015-045-S04		1.5	0.3	0.27	12°	4	45
COE230-003020-045-S04		2					45
COE230-003030-045-S04		3					45
COE230-003040-045-S04		4					45
COE230-003050-045-S04		5					45
COE230-004015-045-S04	0.4	1.5	0.4	0.37	12°	4	45
COE230-004020-045-S04		2					45
COE230-004030-045-S04		3					45
COE230-004040-045-S04		4					45
COE230-004050-045-S04		5					45
COE230-004060-045-S04		6					45
COE230-005020-045-S04	0.5	2	0.5	0.46	12°	4	45
COE230-005030-045-S04		3					45
COE230-005040-045-S04		4					45
COE230-005050-045-S04		5					45
COE230-005060-045-S04		6					45
COE230-005080-045-S04		8					45
COE230-005100-045-S04		10					45
COE230-006020-045-S04	0.6	2	0.6	0.56	12°	4	45
COE230-006030-045-S04		3					45
COE230-006040-045-S04		4					45
COE230-006050-045-S04		5					45
COE230-006060-045-S04		6					45
COE230-006080-045-S04		8					45
COE230-006100-045-S04		10					45

加工材料 Work Material

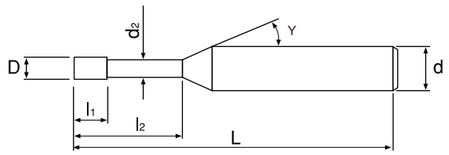
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COE-230 二刃深沟平底铣刀

CO-MAX Long Neck Micro Flat End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COE230-007020-045-S04	0.7	2	0.7	0.66	12°	4	45
COE230-007030-045-S04		3					45
COE230-007040-045-S04		4					45
COE230-007050-045-S04		5					45
COE230-007060-045-S04		6					45
COE230-007080-045-S04		8					45
COE230-007100-045-S04		10					45
COE230-008020-045-S04	0.8	2	0.8	0.76	12°	4	45
COE230-008030-045-S04		3					45
COE230-008040-045-S04		4					45
COE230-008050-045-S04		5					45
COE230-008060-045-S04		6					45
COE230-008080-045-S04		8					45
COE230-008100-045-S04		10					45

加工材料 Work Material

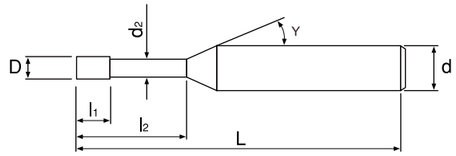
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

*最适合Fit best ○适合Fit

COE-430 四刃深沟平底铣刀

CO-MAX Long Neck Micro Flat End Mill 4-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COE430-01040-050-S04	1	4	1	0.95	12°	4	50
COE430-010050-050-S04		5					50
COE430-010060-050-S04		6					50
COE430-010080-050-S04		8					50
COE430-010100-050-S04		10					50
COE430-010120-050-S04		12					50
COE430-010140-050-S04		14					50
COE430-010160-050-S04		16					50
COE430-010180-050-S04		18					50
COE430-010200-050-S04		20					50
COE430-015060-050-S04	1.5	6	1.5	1.44	12°	4	50
COE430-015080-050-S04		8					50
COE430-015100-050-S04		10					50
COE430-015120-050-S04		12					50
COE430-015140-050-S04		14					50
COE430-015160-050-S04		16					50
COE430-015180-050-S04		18					50
COE430-015200-050-S04		20					50
COE430-020060-050-S04	2	6	2	1.94	12°	4	50
COE430-020080-050-S04		8					50
COE430-020100-050-S04		10					50
COE430-020120-050-S04		12					50
COE430-020140-050-S04		14					50
COE430-020160-050-S04		16					50
COE430-020180-050-S04		18					50
COE430-020200-050-S04		20					50
COE430-030100-050-S04	3	10	3	2.92	12°	4	50
COE430-030120-050-S04		12					50
COE430-030140-050-S04		14					50
COE430-030160-050-S04		16					50
COE430-030180-050-S04		18					50
COE430-030200-050-S04		20					50
COE430-030160-060-S04		16				6	60
COE430-030180-060-S04		18					60
COE430-030200-060-S04		20					60
COE430-030250-060-S04		25					60

加工材料 Work Material

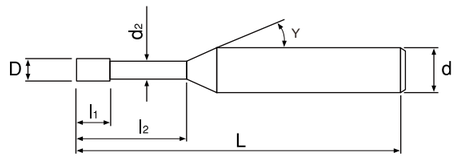
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

*最适合Fit best ○适合Fit

COE-430 四刃深沟平底铣刀

CO-MAX Long Neck Micro Flat End Mill 4-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COE430-030160-075-S6	3	16	3	2.92	12°	6	75
COE430-030180-075-S6		18					75
COE430-030200-075-S6		20					75
COE430-030250-075-S6		25					75
COE430-030300-075-S6		30					75
COE430-030350-075-S6		35					75
COE430-040160-060-S6	4	16	4	3.9	12°	6	60
COE430-040180-060-S6		18					60
COE430-040200-060-S6		20					60
COE430-040250-060-S6		25					60
COE430-040160-075-S6		16					75
COE430-040180-075-S6		18					75
COE430-040200-075-S6		20					75
COE430-040250-075-S6		25					75
COE430-040300-075-S6		30					75
COE430-040350-075-S6		35					75

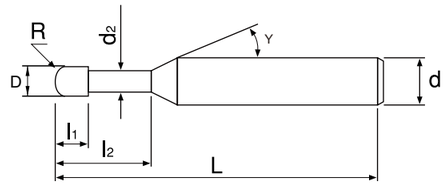
加工材料 Work Material			
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COB-230 二刃深沟球头铣刀

CO-MAX Long Neck Micro Ball End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	R 球头半径 Ball head radius	l2 径长 Diameter length	D 刃径 Diameter	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COB230-001003-045-S04	R0.05	0.3	0.1	0.1	0.085	15°	4	45
COB230-001005-045-S04		0.5						45
COB230-001008-045-S04		0.8						45
COB230-001010-045-S04		1						45
COB230-0015005-045-S04	R0.075	0.5	0.15	0.15	0.13	15°	4	45
COB230-0015010-045-S04		1						45
COB230-002010-045-S04	R0.1	1	0.2	0.2	0.18	15°	4	45
COB230-002015-045-S04		1.5	0.2	0.2	0.18	12°	4	45
COB230-002020-045-S04		2						45
COB230-002030-045-S04		3						45
COB230-003010-045-S04	R0.15	1	0.3	0.3	0.27	15°	4	45
COB230-003015-045-S04		1.5	0.3	0.3	0.27	12°	4	45
COB230-003020-045-S04		2						45
COB230-003030-045-S04		3						45
COB230-003040-045-S04		4						45
COB230-003050-045-S04		5						45
COB230-004015-045-S04	R0.2	1.5	0.4	0.4	0.37	12°	4	45
COB230-004020-045-S04		2						45
COB230-004030-045-S04		3						45
COB230-004040-045-S04		4						45
COB230-004050-045-S04		5						45
COB230-004060-045-S04		6						45
COB230-005020-045-S04	R0.25	2	0.5	0.5	0.46	12°	4	45
COB230-005030-045-S04		3						45
COB230-005040-045-S04		4						45
COB230-005050-045-S04		5						45
COB230-005060-045-S04		6						45
COB230-005080-045-S04		8						45
COB230-006020-045-S04	R0.3	2	0.6	0.6	0.56	12°	4	45
COB230-006030-045-S04		3						45
COB230-006040-045-S04		4						45
COB230-006050-045-S04		5						45
COB230-006060-045-S04		6						45
COB230-006080-045-S04		8						45
COB230-006100-045-S04		10						45

加工材料 Work Material			
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

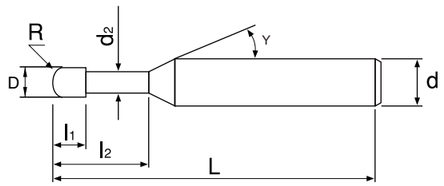
◎最适合Fit best ○适合Fit

COB-230 二刃深沟球头铣刀

CO-MAX Long Neck Micro Ball End Mill 2-Flute 30°

CARBIDE NANO | CO MAX | 2 | 30° Helix | D 0/-0.015 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	R 球头半径 Ball head radius	l2 径长 Diameter length	D 刃径 Diameter	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COB230-008020-045-S4	R0.04	2	0.8	0.8	0.76	12°	4	45
COB230-008030-045-S4		3						45
COB230-008040-045-S4		4						45
COB230-008050-045-S4		5						45
COB230-008060-045-S4		6						45
COB230-008080-045-S4		8						45
COB230-008100-045-S4		10						45
COB230-010030-050-S4	R0.5	3	1	1	0.95	12°	4	50
COB230-010040-050-S4		4						50
COB230-010050-050-S4		5						50
COB230-010060-050-S4		6						50
COB230-010080-050-S4		8						50
COB230-010100-050-S4		10						50
COB230-010120-050-S4		12						50
COB230-010140-050-S4		14						50
COB230-010160-050-S4		16						50
COB230-010180-050-S4		18						50
COB230-010200-050-S4		20						50
COB230-015040-050-S4	R0.75	4	1.5	1.5	1.44	12°	4	50
COB230-015050-050-S4		5						50
COB230-015060-050-S4		6						50
COB230-015080-050-S4		8						50
COB230-015100-050-S4		10						50
COB230-015120-050-S4		12						50
COB230-015160-050-S4		16						50
COB230-015180-050-S4		18						50
COB230-015200-050-S4		20						50
COB230-020060-050-S4	R1	6	2	2	1.94	12°	4	50
COB230-020080-050-S4		8						50
COB230-020100-050-S4		10						50
COB230-020120-050-S4		12						50
COB230-020140-050-S4		14						50
COB230-020160-050-S4		16						50
COB230-020180-050-S4		18						50
COB230-020200-050-S4		20						50
COB230-020160-060-S6		16					6	60
COB230-020180-060-S6		18						60
COB230-020200-060-S6		20						60
COB230-020250-060-S6		25						60

加工材料 Work Material

铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

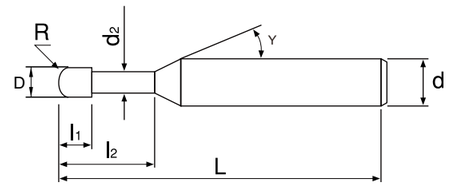
*最适合Fit best ○适合Fit

COB-230 二刃深沟球头铣刀

CO-MAX Long Neck Micro Ball End Mill 2-Flute 30°

CARBIDE NANO | CO MAX | 2 | 30° Helix | D 0/-0.015 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	R 球头半径 Ball head radius	l2 径长 Diameter length	D 刃径 Diameter	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COB230-030080-050-S4	R1.5	8	3	3	2.92	12°	4	50
COB230-030100-050-S4		10						50
COB230-030120-050-S4		12						50
COB230-030160-050-S4		16						50
COB230-030200-050-S4		20						50
COB230-030160-060-S4		16					6	60
COB230-030180-060-S4		18						60
COB230-030200-060-S4		20						60
COB230-030250-060-S4		25						60
COB230-030160-075-S6		16						75
COB230-030180-075-S6		18						75
COB230-030200-075-S6		20						75
COB230-030250-075-S6		25						75
COB230-030300-075-S6		30						75
COB230-040160-060-S4	R2	16	4	4	3.9	12°	6	60
COB230-040180-060-S4		18						60
COB230-040200-060-S4		20						60
COB230-040250-060-S4		25						60
COB230-040160-075-S6		16						75
COB230-040180-075-S6		18						75
COB230-040200-075-S6		20						75
COB230-040250-075-S6		25						75
COB230-040300-075-S6		30						75
COB230-040350-075-S6		35						75

加工材料 Work Material

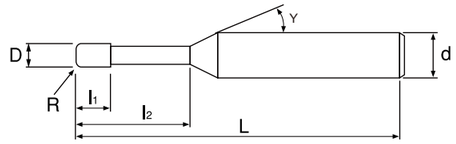
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

*最适合Fit best ○适合Fit

COR-230 二刃深沟圆鼻铣刀

CO-MAX Long Neck Micro Radius End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	R R角半径 R-Angle radius	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COR230-002010-045-S04	0.2	1	0.02	0.2	0.18	15°	4	45
COR230-002015-045-S04		1.5		0.2	0.18	12°	4	45
COR230-002020-045-S04		2						45
COR230-002030-045-S04		3						45
COR230-002010-045-S04		1	0.05	0.2	0.18	15°	4	45
COR230-002015-045-S04		1.5		0.2	0.18	12°	4	45
COR230-002020-045-S04		2						45
COR230-002030-045-S04		3						45
COR230-003010-045-S04	0.3	1	0.02	0.3	0.27	15°	4	45
COR230-003015-045-S04		1.5		0.3	0.27	12°	4	45
COR230-003020-045-S04		2						45
COR230-003030-045-S04		3						45
COR230-003040-045-S04		4						45
COR230-003010-045-S04		1	0.05	0.3	0.27	15°	4	45
COR230-003015-045-S04		1.5		0.3	0.27	12°	4	45
COR230-003020-045-S04		2						45
COR230-003030-045-S04		3						45
COR230-003040-045-S04		4						45
COR230-004010-045-S04	0.4	1	0.02	0.4	0.37	15°	4	45
COR230-004015-045-S04		1.5		0.4	0.37	12°	4	45
COR230-004020-045-S04		2						45
COR230-004030-045-S04		3						45
COR230-004040-045-S04		4						45
COR230-004050-045-S04		5						45
COR230-004060-045-S04		6						45
COR230-004010-045-S04		1	0.05	0.4	0.37	15°	4	45
COR230-004015-045-S04		1.5		0.4	0.37	12°	4	45
COR230-004020-045-S04		2						45
COR230-004030-045-S04		3						45
COR230-004040-045-S04		4						45
COR230-004050-045-S04		5						45
COR230-004060-045-S04		6						45
COR230-004010-045-S04		1	0.01	0.4	0.37	15°	4	45
COR230-004015-045-S04		1.5		0.4	0.37	12°	4	45
COR230-004020-045-S04		2						45
COR230-004030-045-S04		3						45
COR230-004040-045-S04		4						45
COR230-004050-045-S04		5						45
COR230-004060-045-S04		6						45

加工材料 Work Material

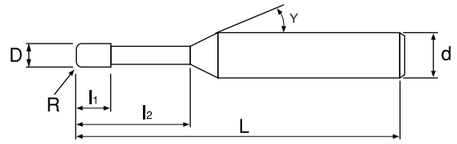
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

*最适合Fit best ○适合Fit

COR-230 二刃深沟圆鼻铣刀

CO-MAX Long Neck Micro Radius End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	R R角半径 R-Angle radius	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COR230-005020-045-S04	0.5	2	0.02	0.5	0.46	12°	4	45
COR230-005030-045-S04		3						45
COR230-005040-045-S04		4						45
COR230-005050-045-S04		5						45
COR230-005060-045-S04		6						45
COR230-005080-045-S04		8						45
COR230-005100-045-S04		10						45
COR230-005020-045-S04		2	0.05					45
COR230-005030-045-S04		3						45
COR230-005040-045-S04		4						45
COR230-005050-045-S04		5						45
COR230-005060-045-S04		6						45
COR230-005080-045-S04		8						45
COR230-005100-045-S04		10						45
COR230-005020-045-S04		2	0.1					45
COR230-005030-045-S04		3						45
COR230-005040-045-S04		4						45
COR230-005050-045-S04		5						45
COR230-005060-045-S04		6						45
COR230-005080-045-S04		8						45
COR230-005100-045-S04		10						45
COR230-006020-045-S04	0.6	2	0.02	0.6	0.56	12°	4	45
COR230-006030-045-S04		3						45
COR230-006040-045-S04		4						45
COR230-006050-045-S04		5						45
COR230-006060-045-S04		6						45
COR230-006080-045-S04		8						45
COR230-006100-045-S04		10						45
COR230-006020-045-S04		2	0.05					45
COR230-006030-045-S04		3						45
COR230-006040-045-S04		4						45
COR230-006050-045-S04		5						45
COR230-006060-045-S04		6						45
COR230-006080-045-S04		8						45
COR230-006100-045-S04		10						45

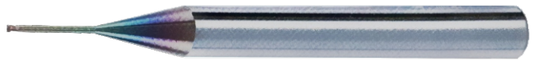
加工材料 Work Material

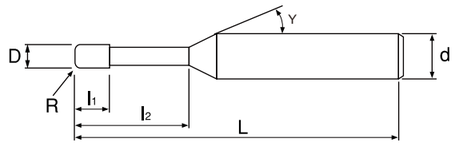
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

*最适合Fit best ○适合Fit

COR-230 二刃深沟圆鼻铣刀

CO-MAX Long Neck Micro Radius End Mill 2-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	R R角半径 R-Angle radius	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COR230-006020-045-S04	0.6	2	0.1	0.6	0.56	12°	4	45
COR230-006030-045-S04		3						45
COR230-006040-045-S04		4						45
COR230-006050-045-S04		5						45
COR230-006060-045-S04		6						45
COR230-006080-045-S04		8						45
COR230-006100-045-S04		10						45
COR230-006020-045-S04		2	0.2					45
COR230-006030-045-S04		3						45
COR230-006040-045-S04		4						45
COR230-006050-045-S04		5						45
COR230-006060-045-S04		6						45
COR230-006080-045-S04		8						45
COR230-006100-045-S04		10						45
COR230-008020-045-S04	0.8	2	0.02	0.8	0.76	12°	4	45
COR230-008030-045-S04		3						45
COR230-008040-045-S04		4						45
COR230-008050-045-S04		5						45
COR230-008060-045-S04		6						45
COR230-008080-045-S04		8						45
COR230-008100-045-S04		10						45
COR230-008020-045-S04		2	0.05					45
COR230-008030-045-S04		3						45
COR230-008040-045-S04		4						45
COR230-008050-045-S04		5						45
COR230-008060-045-S04		6						45
COR230-008080-045-S04		8						45
COR230-008100-045-S04		10						45
COR230-008020-045-S04		2	0.1					45
COR230-008030-045-S04		3						45
COR230-008040-045-S04		4						45
COR230-008050-045-S04		5						45
COR230-008060-045-S04		6						45
COR230-008080-045-S04		8						45
COR230-008100-045-S04		10						45
COR230-008020-045-S04		2	0.2					45
COR230-008030-045-S04		3						45
COR230-008040-045-S04		4						45
COR230-008050-045-S04		5						45
COR230-008060-045-S04		6						45
COR230-008080-045-S04		8						45
COR230-008100-045-S04		10						45

加工材料 Work Material

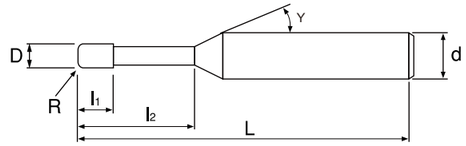
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COR-430 四刃深沟圆鼻铣刀

CO-MAX Long Neck Micro Radius End Mill 4-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l2 径长 Diameter length	R R角半径 R-Angle radius	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COR430-010040-050-S04	1	4	0.1	1	0.95	12°	4	50
COR430-010060-050-S04		6						50
COR430-010080-050-S04		8						50
COR430-010100-050-S04		10						50
COR430-010120-050-S04		12						50
COR430-010140-050-S04		14						50
COR430-010160-050-S04		16						50
COR430-010180-050-S04		18						50
COR430-010200-050-S04		20						50
COR430-010040-050-S04		4	0.2					50
COR430-010060-050-S04		6						50
COR430-010080-050-S04		8						50
COR430-010100-050-S04		10						50
COR430-010120-050-S04		12						50
COR430-010140-050-S04		14						50
COR430-010160-050-S04		16						50
COR430-010180-050-S04		18						50
COR430-010200-050-S04		20						50
COR430-015060-050-S04	1.5	6	0.1	1.5	1.44	12°	4	50
COR430-015080-050-S04		8						50
COR430-015100-050-S04		10						50
COR430-015120-050-S04		12						50
COR430-015140-050-S04		14						50
COR430-015160-050-S04		16						50
COR430-015180-050-S04		18						50
COR430-015200-050-S04		20						50
COR430-015060-050-S04		6	0.2					50
COR430-015080-050-S04		8						50
COR430-015100-050-S04		10						50
COR430-015120-050-S04		12						50
COR430-015140-050-S04		14						50
COR430-015160-050-S04		16						50
COR430-015180-050-S04		18						50
COR430-015200-050-S04		20						50
COR430-020060-050-S04	2	6	0.1	2	1.94	12°	4	50
COR430-020080-050-S04		8						50
COR430-020100-050-S04		10						50
COR430-020120-050-S04		12						50
COR430-020140-050-S04		14						50
COR430-020160-050-S04		16						50
COR430-020180-050-S04		18						50
COR430-020200-050-S04		20						50

加工材料 Work Material

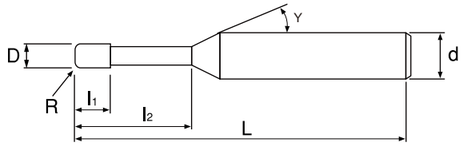
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COR-430 四刃深沟圆鼻铣刀

CO-MAX Long Neck Micro Radius End Mill 4-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l1 径长 Diameter length	R R角半径 R-Angle radius	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COR430-020060-050-S04	2	6	0.2	2	1.94	12°	4	50
COR430-020080-050-S04		8						50
COR430-020100-050-S04		10						50
COR430-020120-050-S04		12						50
COR430-020140-050-S04		14						50
COR430-020160-050-S04		16						50
COR430-020180-050-S04		18						50
COR430-020200-050-S04		20						50
COR430-020060-050-S04		6	0.5					50
COR430-020080-050-S04		8						50
COR430-020100-050-S04		10						50
COR430-020120-050-S04		12						50
COR430-020140-050-S04		14						50
COR430-020160-050-S04		16						50
COR430-020180-050-S04		18						50
COR430-020200-050-S04		20						50
COR430-030100-050-S04	3	10	0.1	3	2.92	12°	4	50
COR430-030120-050-S04		12						50
COR430-030140-050-S04		14						50
COR430-030160-050-S04		16						50
COR430-030180-050-S04		18						50
COR430-030200-050-S04		20						50
COR430-030100-050-S04		10	0.2					50
COR430-030120-050-S04		12						50
COR430-030140-050-S04		14						50
COR430-030160-050-S04		16						50
COR430-030180-050-S04		18						50
COR430-030200-050-S04		20						50
COR430-030100-050-S04		10	0.5					50
COR430-030120-050-S04		12						50
COR430-030140-050-S04		14						50
COR430-030160-050-S04		16						50
COR430-030180-050-S04		18						50
COR430-030200-050-S04		20						50
COR430-030120-060-S06		12	0.2				6	60
COR430-030160-060-S06		16						60
COR430-030200-060-S06		20						60
COR430-030250-060-S06		25						60

加工材料 Work Material

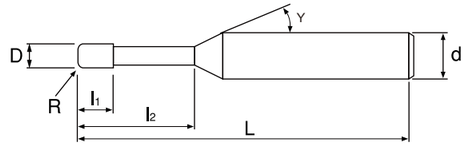
铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

◎最适合Fit best ○适合Fit

COR-430 四刃深沟圆鼻铣刀

CO-MAX Long Neck Micro Radius End Mill 4-Flute 30°





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Diameter	l1 径长 Diameter length	R R角半径 R-Angle radius	l1 刃长 Flute length	d2 颈径 Neck diameter	Y 颈角(为参考值) Neck angle	d 柄径 Shank Dia.	L 全长 O.A.L.
COR430-030120-060-S06	3	12	0.5	3	2.92	12°	6	60
COR430-030160-060-S06		16						60
COR430-030200-060-S06		20						60
COR430-030250-060-S06		25						60
COR430-030120-075-S06		12	0.2					75
COR430-030160-075-S06		16						75
COR430-030200-075-S06		20						75
COR430-030250-075-S06		25						75
COR430-030300-075-S06		30						75
COR430-030120-075-S06		12	0.5					75
COR430-030160-075-S06		16						75
COR430-030200-075-S06		20						75
COR430-030250-075-S06		25						75
COR430-030300-075-S06		30						75
COR430-040160-060-S06	4	16	0.2	4	3.9	12°	6	60
COR430-040200-060-S06		20						60
COR430-040250-060-S06		25						60
COR430-040160-060-S06		16	0.5					60
COR430-040200-060-S06		20						60
COR430-040250-060-S06		25						60
COR430-040160-075-S06		16	0.2					75
COR430-040200-075-S06		20						75
COR430-040250-075-S06		25						75
COR430-040300-075-S06		30						75
COR430-040350-075-S06		35						75
COR430-040160-075-S06		16	0.5					75
COR430-040200-075-S06		20						75
COR430-040250-075-S06		25						75
COR430-040300-075-S06		30						75
COR430-040350-075-S06		35						75

加工材料 Work Material

铜电极 Copper electrode	铝合金 Aluminium alloy	铝镁合金 Aluminum magnesium alloy	钛合金 Titanium alloy
◎	◎	◎	◎

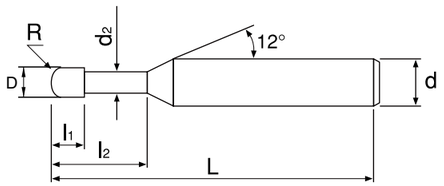
◎最适合Fit best ○适合Fit

HRB230二刃深沟球头铣刀

HR-MAX Long Neck Micro Ball End Mill 2-Flute 30°

CARBIDE NANO | HR MAX | 2 | 30° Helix | R ±0.005 | D 0/-0.015 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	d2 颈径 Neck Dia.	R R角 Corner R	L1 刃长 Flute Length	d 柄径 Shank Dia	L 全长 O.A.L.
HRB230-002010-050-S04	0.2	1	0.18	R0.1	0.16	4	50
HRB230-002015-050-S04		1.5					50
HRB230-002020-050-S04		2					50
HRB230-003010-050-S04	0.3	1	0.27	R0.15	0.24	4	50
HRB230-003020-050-S04		2					50
HRB230-003030-050-S04		3					50
HRB230-004010-050-S04	0.4	1	0.37	R0.2	0.32	4	50
HRB230-004020-050-S04		2					50
HRB230-004040-050-S04		4					50
HRB230-004060-050-S04		6					50
HRB230-005020-050-S04	0.5	2	0.46	R0.25	0.4	4	50
HRB230-005040-050-S04		4					50
HRB230-005060-050-S04		6					50
HRB230-005080-050-S04		8					50
HRB230-006020-050-S04	0.6	2	0.55	R0.3	0.48	4	50
HRB230-006030-050-S04		3					50
HRB230-006040-050-S04		4					50
HRB230-006060-050-S04		6					50
HRB230-006080-050-S04		8					50
HRB230-008020-050-S04	0.8	2	0.75	R0.4	0.64	4	50
HRB230-008040-050-S04		4					50
HRB230-008060-050-S04		6					50
HRB230-008080-050-S04		8					50
HRB230-008100-050-S04		10					50
HRB230-010040-050-S04	1.0	4	0.95	R0.5	0.8	4	50
HRB230-010060-050-S04		6					50
HRB230-010080-050-S04		8					50
HRB230-010100-050-S04		10					50
HRB230-010120-050-S04		12					50
HRB230-010160-050-S04		16					50

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	○	◎	◎	◎	◎		◎													

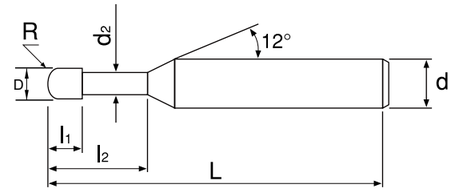
*最适合Fit best ○适合Fit

HRB230二刃深沟球头铣刀

HR-MAX Long Neck Micro Ball End Mill 2-Flute 30°

CARBIDE NANO | HR MAX | 2 | 30° Helix | R ±0.005 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6 | DLC COATING





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	d2 颈径 Neck Dia.	R R角 Corner R	L1 刃长 Flute Length	d 柄径 Shank Dia	L 全长 O.A.L.
HRB230-012060-050-S04	1.2	6	1.15	R.06	0.96	4	50
HRB230-012080-050-S04		8					50
HRB230-012100-050-S04		10					50
HRB230-012120-050-S04		12					50
HRB230-015060-050-S04	1.5	6	1.45	R0.75	1.2	4	50
HRB230-015080-050-S04		8					50
HRB230-015100-050-S04		10					50
HRB230-015120-050-S04		12					50
HRB230-015160-050-S04		16					50
HRB230-015200-050-S04		20					50
HRB230-020080-050-S04	2.0	8	1.95	R1.0	1.6	4	50
HRB230-020100-050-S04		10					50
HRB230-020120-050-S04		12					50
HRB230-020160-050-S04		16					50
HRB230-020180-050-S04		18					50
HRB230-030100-050-S06	3.0	10	2.85	R1.5	2.4	6	50
HRB230-030120-050-S06		12					50
HRB230-030160-050-S06		16					50
HRB230-030200-070-S06		20					70
HRB230-040160-050-S06	4.0	16	3.85	R2.0	3.2	6	50
HRB230-040200-050-S06		20					50

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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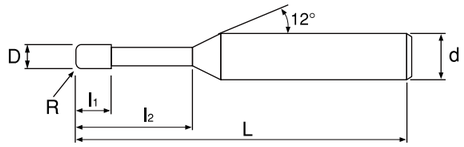
*最适合Fit best ○适合Fit

HRR430 四刃深沟圆鼻铣刀

HR-MAX Long Neck Micro Radius End Mill 4-Flute 30°

CARBIDE NANO | HR MAX | 4 | 30° Helix | CR ±0.01 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	R R角 Corner R	L1 刃长 Flute Length	d 柄径 Shank Dia.	L 全长 O.A.L.
HRR430-010040R0.1-050-S04	1.0	4	R0.1	1.5	4	50
HRR430-010060R0.1-050-S04		6				50
HRR430-010080R0.1-050-S04		8				50
HRR430-010040R0.2-050-S04		4	R0.2			50
HRR430-010060R0.2-050-S04		6				50
HRR430-010080R0.2-050-S04		8				50
HRR430-015060R0.2-050-S04	1.5	6	R0.2	2.3	4	50
HRR430-015080R0.2-050-S04		8				50
HRR430-015100R0.2-050-S04		10				50
HRR430-020080R0.1-050-S04	2.0	8	R0.1	3.0	4	50
HRR430-020100R0.1-050-S04		10				50
HRR430-020120R0.1-050-S04		12				50
HRR430-020160R0.1-050-S04		16				50
HRR430-020080R0.2-050-S04		8	R0.2			50
HRR430-020100R0.2-050-S04		10				50
HRR430-020120R0.2-050-S04		12				50
HRR430-020160R0.2-050-S04		16				50

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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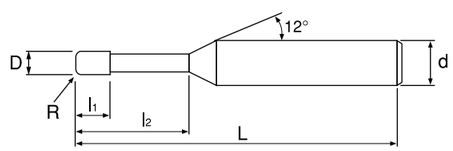
◎最适合Fit best ○适合Fit

HRR430 四刃深沟圆鼻铣刀

HR-MAX Long Neck Micro Radius End Mill 4-Flute 30°

CARBIDE NANO | HR MAX | 4 | 30° Helix | CR ±0.01 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	R R角 Corner R	L1 刃长 Flute Length	d 柄径 Shank Dia.	L 全长 O.A.L.
HRR430-030120R0.2-050-S04	3.0	12	R0.2	4.5	6	50
HRR430-030160R0.2-050-S06		16				50
HRR430-030200R0.2-050-S06		20				50
HRR430-030260R0.2-070-S06		26				70
HRR430-030300R0.2-070-S06		30				70
HRR430-030260R0.3-070-S06		26	R0.3			70
HRR430-030300R0.3-070-S06		30				70
HRR430-030120R0.5-050-S06		12	R0.5			50
HRR430-030160R0.5-050-S06		16				50
HRR430-030200R0.5-050-S06		20				50
HRR430-030260R0.5-070-S06		26				70
HRR430-030300R0.5-070-S06		30				70
HRR430-040160R0.2-050-S06	4.0	16	R0.2	6	6	50
HRR430-040200R0.2-050-S06		20				50
HRR430-040160R0.3-050-S06		16	R0.3			50
HRR430-040200R0.3-050-S06		20				50
HRR430-040160R0.5-050-S06		16	R0.5			50
HRR430-040200R0.5-050-S06		20				50

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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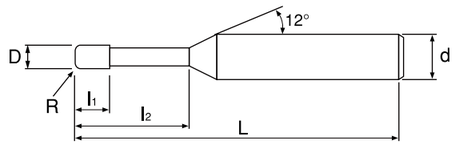
◎最适合Fit best ○适合Fit

HRR230 二刃深沟圆鼻铣刀

HR-MAX Long Neck Micro Radius End Mill 2-Flute 30°

CARBIDE NANO | HR MAX | 2 | 30° Helix | CR ±0.01 | D 0/-0.015 (D≤5) | D 0/-0.02 (D≥6)





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	R R角 Corner R	L1 刃长 Flute Length	d 柄径 Shank Dia.	L 全长 O.A.L.
HRR230-005020R0.05-050-S04	0.5	2	R0.05	0.7	4	50
HRR230-005040R0.05-050-S04		4				50
HRR230-005060R0.05-050-S04		6				50
HRR230-006020R0.05-050-S04	0.6	2	R0.05	0.9	4	50
HRR230-006040R0.05-050-S04		4				50
HRR230-006060R0.05-050-S04		6				50
HRR230-008040R0.05-050-S04	0.8	4	R0.05	1.2	4	50
HRR230-008060R0.05-050-S04		6				50

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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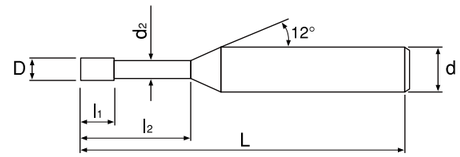
◎最适合Fit best ○适合Fit

HRE430 四刃深沟平底铣刀

HR-MAX Long Neck Micro Flat End Mill 4-Flute 30°

CARBIDE NANO | HR MAX | 4 | 30° Helix | D 0/-0.015





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	L1 刃长 Flute Length	d2 直径 Diameter	d 柄径 Shank Dia.	L 全长 O.A.L.
HRE430-010050-050-S04	1.0	5	1.5	0.95	4	50
HRE430-010060-050-S04		6				50
HRE430-010080-050-S04		8				50
HRE430-010100-050-S04		10				50
HRE430-010120-050-S04		12				50
HRE430-010160-050-S04		16				50
HRE430-015060-050-S04	1.5	6	2.3	1.45	4	50
HRE430-015080-050-S04		8				50
HRE430-015100-050-S04		10				50
HRE430-015120-050-S04		12				50
HRE430-015160-050-S04		16				50
HRE430-015180-050-S04		18				50
HRE430-015200-050-S04		20				50
HRE430-020080-050-S04	2.0	8	3.0	1.95	4	50
HRE430-020100-050-S04		10				50
HRE430-020120-050-S04		12				50
HRE430-020160-050-S04		16				50
HRE430-020180-050-S04		18				50
HRE430-020200-050-S04		20				50
HRE430-020220-050-S04		22				50
HRE430-030120-050-S04	3.0	12	4.5	2.85	6	50
HRE430-030160-050-S04		16				50
HRE430-030200-050-S04		20				50
HRE430-040160-050-S06	4.0	16	6	3.85	6	50
HRE430-040200-050-S06		20				50

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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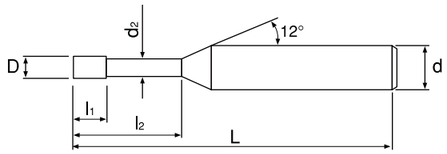
◎最适合Fit best ○适合Fit

HRE230 二刃深沟平底铣刀

HR-MAX Long Neck Micro Flat End Mill 2-Flute 30°

CARBIDE NANO | HR MAX | 2 | 30° Helix | D 0/-0.015





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	L1 刃长 Flute Length	d2 直径 Diameter	d 柄径 Shank Dia.	L 全长 O.A.L.
HRE230-002010-050-S04	0.2	1	0.3	0.18	4	50
HRE230-002015-050-S04		1.5				50
HRE230-002020-050-S04		2				50
HRE230-003010-050-S04	0.3	1	0.5	0.27	4	50
HRE230-003020-050-S04		2				50
HRE230-003030-050-S04		3				50
HRE230-004020-050-S04	0.4	2	0.6	0.37	4	50
HRE230-004040-050-S04		4				50
HRE230-004060-050-S04		6				50
HRE230-005020-050-S04	0.5	2	0.7	0.45	4	50
HRE230-005030-050-S04		3				50
HRE230-005040-050-S04		4				50
HRE230-005060-050-S04		6				50
HRE230-005080-050-S04		8				50
HRE230-006020-050-S04	0.6	2	0.9	0.55	4	50
HRE230-006030-050-S04		3				50
HRE230-006040-050-S04		4				50
HRE230-006060-050-S04		6				50
HRE230-006080-050-S04		8				50
HRE230-007040-050-S04	0.7	4	1.0	0.65	4	50
HRE230-007060-050-S04		6				50
HRE230-007080-050-S04		8				50
HRE230-007100-050-S04		10				50
HRE230-008040-050-S04	0.8	4	1.2	0.95	4	50
HRE230-008060-050-S04		6				50
HRE230-008080-050-S04		8				50
HRE230-008100-050-S04		10				50

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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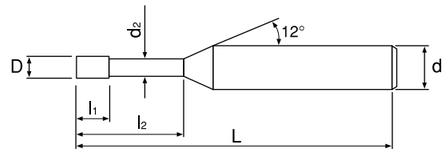
◎最适合Fit best ○适合Fit

HRE230 二刃深沟平底铣刀

HR-MAX Long Neck Micro Flat End Mill 2-Flute 30°

CARBIDE NANO | HR MAX | 2 | 30° Helix | D 0/-0.015





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 直径 Diameter	l2 颈长 Effective Length	L1 刃长 Flute Length	d2 直径 Diameter	d 柄径 Shank Dia.	L 全长 O.A.L.
HRE230-010050-050-S04	1.0	5	1.5	0.95	4	50
HRE230-010060-050-S04		6				50
HRE230-010080-050-S04		8				50
HRE230-010100-050-S04		10				50
HRE230-010120-050-S04		12				50
HRE230-010160-050-S04		16				50
HRE230-015060-050-S04	1.5	6	2.3	1.45	4	50
HRE230-015080-050-S04		8				50
HRE230-015100-050-S04		10				50
HRE230-015120-050-S04		12				50
HRE230-015160-050-S04		16				50
HRE230-015180-050-S04		18				50
HRE230-015200-050-S04		20				50
HRE230-020080-050-S04	2.0	8	3.0	1.95	4	50
HRE230-020100-050-S04		10				50
HRE230-020120-050-S04		12				50
HRE230-020160-050-S04		16				50
HRE230-020180-050-S04		18				50
HRE230-020200-050-S04		20				50
HRE230-020220-050-S04		22				50
HRE230-030120-050-S06	3.0	12	4.5	2.85	6	50
HRE230-030160-050-S06		16				50
HRE230-030200-050-S06		20				50

加工材料 Work Material

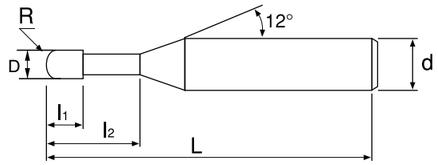
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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

DMB235二刃球头铣刀

DIA-MAX Ball End Mill 2-Flute 35°/Diamond coated





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Cutting Dia.	l2 有效长 Effective long	R R角 Radius	l1 刃长 Flute Length	刃数 Cutting flute	d 柄径 Shank Dia.	L 全长 O.A.L.
DMB235-002020-050-S04	0.2	2	0.1	0.4	2	4	50
DMB235-003030-050-S04	0.3	3	0.15	0.6	2	4	50
DMB235-004040-050-S03	0.4	4	0.2	0.8	2	3	50
DMB235-005050-050-S04	0.5	4	0.25	1	2	4	50
DMB235-006060-050-S04	0.6	6	0.3	1.2	2	4	50
DMB235-006100-050-S04		10					50
DMB235-008080-050-S04	0.8	8	0.4	2	2	4	50
DMB235-010060-050-S04	1.0	6	0.5	2	2	4	50
DMB235-010100-050-S04		10					50
DMB235-010150-050-S04		15					50
DMB235-010100-060-S04		10					60
DMB235-010150-060-S04		15					60
DMB235-010200-060-S04		20					60
DMB235-010100-075-S04		10					75
DMB235-010150-075-S04		15					75
DMB235-015060-050-S04	1.5	6	0.75	3	2	4	50
DMB235-015100-050-S04		10					50
DMB235-015150-050-S04		15					50
DMB235-015100-060-S04		10					60
DMB235-015150-060-S04		15					60
DMB235-015100-075-S04		10					75
DMB235-015150-075-S04		15					75
DMB235-020060-050-S04	2.0	6	1	4	2	4	50
DMB235-020100-050-S04		10					50
DMB235-020150-050-S04		15					50

加工材料 Work Material

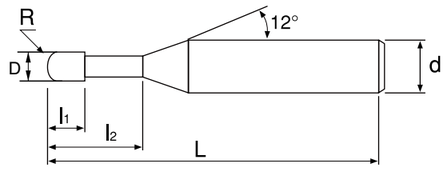
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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

DMB235二刃球头铣刀

DIA-MAX Ball End Mill 2-Flute 35°/Diamond coated





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Cutting Dia.	l2 有效长 Effective long	R R角 Radius	l1 刃长 Flute Length	刃数 Cutting flute	d 柄径 Shank Dia.	L 全长 O.A.L.
DMB235-020100-060-S04	2.0	10	1	4	2	4	60
DMB235-020150-060-S04		15					60
DMB235-020100-075-S04		10					75
DMB235-020150-075-S04		15					75
DMB235-030060-050-S03	3.0	6	1.5	6	2	3	50
DMB235-030060-060-S03		6					60
DMB235-030060-075-S03		6					75
DMB235-030060-100-S03		6					100
DMB235-040080-050-S04	4.0	8	2	8	2	4	50
DMB235-040080-060-S04		8					60
DMB235-040080-075-S04		8					75
DMB235-040100-100-S04		10		10			100
DMB235-060120-060-S06	6.0	12	3	12	2	6	60
DMB235-060120-075-S06		12					75
DMB235-060160-100-S06		16		16			100
DMB235-060200-150-S06		20		20			150
DMB235-080160-075-S08	8.0	16	4	16	2	8	75
DMB235-080160-100-S08		16					100
DMB235-080300-150-S08		30		30			150
DMB235-100200-100-S10	10.0	20	5	20	2	10	100
DMB235-100200-110-S10		20					110
DMB235-100300-150-S10		30		30			150
DMB235-120300-100-S12	12.0	30	6	30	2	12	100
DMB235-120300-150-S12		30					150

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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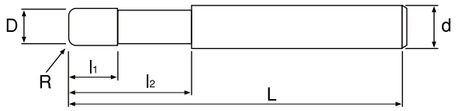
◎最适合Fit best ○适合Fit

DMR435 四刃圆鼻铣刀

DIA-MAX Radius End Mill 4-Flute 35°/Diamond coated

CARBIDE MG | DIA CVD | 4 | 35° Helix | R ±0.01 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Cutting Dia.	l2 有效长 Effective long	R R角 Radius	l1 刃长 Flute Length	刃数 Cutting flute	d 柄径 Shank Dia.	L 全长 O.A.L.
DMR435-010100R0. 1-050-S04	1.0	10	0.1	3	4	4	50
DMR435-010100R0. 2-060-S04		10	0.2				60
DMR435-015070R0. 1-050-S04	1.5	7	0.1	3	4	4	50
DMR435-015100R0. 1-050-S04		10					50
DMR435-015100R0. 1-060-S04		10					60
DMR435-015100R0. 2-050-S04		10	0.2				50
DMR435-020100R0. 1-050-S04	2.0	10	0.1	3	4	4	50
DMR435-020100R0. 1-060-S04		10		6			60
DMR435-020100R0. 2-050-S04		10	0.2				50
DMR435-020100R0. 2-060-S04		10					60
DMR435-020150R0. 2-075-S04		15					75
DMR435-020100R0. 3-060-S04		10	0.3				60
DMR435-030100R0. 1-040-S04	3.0	10	0.1	6	4	4	40
DMR435-030100R0. 1-050-S04		10					50
DMR435-030100R0. 2-050-S04		10	0.2				50
DMR435-030100R0. 2-060-S03		10				3	60
DMR435-030100R0. 2-075-S03		10		10			75
DMR435-030100R0. 2-100-S03		10					100
DMR435-030100R0. 3-060-S03		10	0.3				60
DMR435-030100R0. 5-060-S03		10	0.5				60
DMR435-030100R0. 5-075-S03		10					75
DMR435-030100R0. 5-100-S03		10					100

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

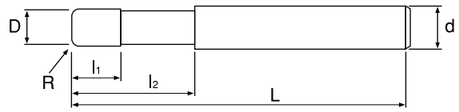
◎最适合Fit best ○适合Fit

DMR435 四刃圆鼻铣刀

DIA-MAX Radius End Mill 4-Flute 35°/Diamond coated

CARBIDE MG | DIA CVD | 4 | 35° Helix | R ±0.01 | D 0/-0.015 D≤5 | D 0/-0.02 D≥6





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Cutting Dia.	R R角 Radius	l1 刃长 Flute Length	刃数 Cutting flute	d 柄径 Shank Dia.	L 全长 O.A.L.
DMR435-040060R0. 1-040-S04	4.0	0.1	6	4	4	40
DMR435-040060R0. 2-050-S04		0.2	6			50
DMR435-040100R0. 2-050-S04			10			50
DMR435-040120R0. 2-060-S04			12			60
DMR435-040200R0. 2-075-S04			20			75
DMR435-040200R0. 2-100-S04			20			100
DMR435-040060R0. 5-050-S04		0.5	6			50
DMR435-040120R0. 5-060-S04			12			60
DMR435-040120R0. 5-075-S04			12			75
DMR435-040200R0. 5-100-S04			20			100
DMR435-060200R0. 3-075-S06	6.0	0.3	20	4	6	75
DMR435-060300R0. 3-100-S06			30			100
DMR435-060200R0. 5-060-S06		0.5	20			60
DMR435-060200R0. 5-075-S06			20			75
DMR435-060250R0. 5-100-S06			25			100
DMR435-080250R0. 3-100-S08	8.0	0.3	25	4	8	75
DMR435-080300R0. 3-100-S08			30			100
DMR435-080300R0. 5-075-S08		0.5	30			75
DMR435-080300R0. 5-100-S08			30			100
DMR435-080400R0. 5-150-S08			40			150
DMR435-100250R0. 5-075-S10	10.0	0.5	25	4	10	75
DMR435-100300R0. 5-100-S10			30			100
DMR435-100400R0. 5-150-S10			40			150
DMR435-120300R0. 5-100-S12	12.0	0.5	30	4	12	100
DMR435-120400R0. 5-150-S12			40			150

加工材料 Work Material

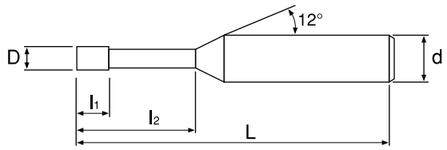
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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

DME435四刃平底铣刀

DIA-MAX Rib Flat End Mill 4-Flute 35°/Diamond Coated





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Cutting Dia.	l2 有效长 Effective long	L1 刃长 Flute Length	刃数 Cutting flute	d 柄径 Shank Dia.	L 全长 O.A.L.
DME435-010060-050-S04	1.0	6	3	4	4	50
DME435-010100-050-S04		10				50
DME435-010060-060-S04		6				60
DME435-010100-060-S04		10				60
DME435-010150-060-S04		15				60
DME435-010100-075-S04		10				75
DME435-010150-075-S04		15				75
DME435-015060-050-S04	1.5	6	4.5	4	4	50
DME435-015100-050-S04		10				50
DME435-015150-050-S04		15				50
DME435-015060-060-S04		6				60
DME435-015100-060-S04		10				60
DME435-015150-060-S04		15				60
DME435-015100-075-S04		10				75
DME435-015150-075-S04		15				75
DME435-020060-050-S04	2.0	-	6	4	4	50
DME435-020100-050-S04		10				50
DME435-020150-050-S04		15				50
DME435-020100-060-S04		10				60
DME435-020150-060-S04		15				60
DME435-020200-060-S04		20				60
DME435-020100-075-S04		10				75
DME435-020150-075-S04		15				75
DME435-030090-050-S03	3.0	9	9	4	3	50
DME435-030090-060-S03		9				60
DME435-030090-075-S03		9				75
DME435-030150-075-S03		15	15			100
DME435-030090-050-S04		9	9		4	50
DME435-030150-060-S04		15	15			60
DME435-040120-050-S04	4.0	12	12	4	4	50
DME435-040120-060-S04		12				60
DME435-040120-075-S04		12				75
DME435-040200-100-S04		20	20			100
DME435-060200-050-S06	6.0	20	20	4	6	50
DME435-060200-060-S06		20				60
DME435-060250-075-S06		25	25			75
DME435-060300-100-S06		30	30			100
DME435-060400-150-S06		40	40			150
DME435-080200-050-S08	8.0	20	20	4	8	50
DME435-080200-060-S08		20				60
DME435-080300-075-S08		30	30			75
DME435-080300-100-S08		30				100
DME435-080400-150-S08		40	40			150
DME435-100250-060-S10	10.0	25	25	4	10	60
DME435-100300-075-S10		30	30			75
DME435-100400-100-S10		40	40			100
DME435-100400-150-S10		40				150
DME435-120500-100-S12	12.0	50	50	4	12	100
DME435-120500-150-S12		50				150
DME435-120500-180-S12		50				180

加工材料 Work Material

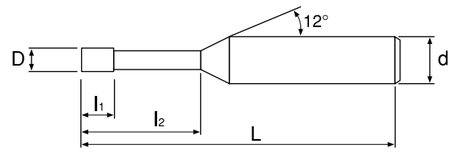
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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

DME235 二刃平底铣刀

DIA-MAX Flat End Mill 2-Flute 35°/Diamond coated





产品规格 | PRODUCT SPECIFICATION

unit:mm

型号 Type No.	D 刃径 Cutting Dia.	l2 有效长 Effective long	l1 刃长 Flute Length	刃数 Cutting flute	d 柄径 Shank Dia.	L 全长 O.A.L.
DME235-002020-050-S04	0.2	2	0.4	2	4	50
DME235-003030-050-S04	0.3	3	0.6	2	4	50
DME235-004040-050-S04	0.4	4	0.8	2	4	50
DME235-005060-050-S04	0.5	6	1	2	4	50
DME235-005100-050-S04		10				50
DME235-006060-050-S04	0.6	6	1.2	2	4	50
DME235-006100-050-S04		10				50
DME235-008060-050-S04	0.8	6	1.6	2	4	50
DME235-008100-050-S04		10				50
DME235-010100-050-S04	1.0	10	3	2	4	50
DME235-010100-060-S04		10				60
DME235-015100-050-S04	1.5	10	4.5	2	4	50
DME235-015100-060-S04		10				60
DME235-020100-050-S04	2.0	10	6	2	4	50
DME235-020100-060-S04		10				60

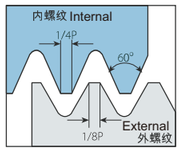
加工材料 Work Material

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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 | PRODUCT SPECIFICATION

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		KVX	KW20	库存 STOCK
0.4	M2X0.4		KM2X0.4ISO-d4	1.54	4	3	5	50		●	●	●
0.45	M2.5X0.45		KM2.5X0.45ISO-d4	1.96	4	3	6	50		●	●	●
0.5	M3X0.5		KM3X0.5ISO-d4	2.4	4	3	7.5	50		●	●	●
0.5		M6X0.5	KM6X0.5ISO-d4	4.8	4	3	13	50		●	●	●
0.5		M10X0.5	KM10X0.5ISO-d6	7.9	6	3	20	60		●	●	●
0.7	M4X0.7		KM4X0.7ISO-d4	3.15	4	3	10	50		●	●	●
0.75	M4.5X0.75		KM4.5X0.75ISO-d4	3.4	4	3	9	50		●	●	●
0.75		M12X0.75	KM12X0.75ISO-d8	9.95	8	3	20	75		●	●	●
0.8	M5X0.8		KM5X0.8ISO-d4	3.9	4	3	13	50		●	●	●
1.0	M6X1.0		KM6X1.0ISO-d6	5	6	3	17	50		●	●	●
1.0		M8X1.0	KM8x1.0ISO-d6	5.95	6	3	15	60		●	●	●
1.0		M10X1.0	KM10X1.0ISO-d8	7.95	8	3	22	60		●	●	●
1.0		M12X1.0	KM12X1.0ISO-d10	9.9	10	4	28	75		●	●	●
1.0		M16X1.0	KM16X1.0ISO-d12	12	12	4	30	75		●	●	●
1.0		M20X1.0	KM20X1.0ISO-d16	16	16	4	40	100		●	●	●
1.25	M8X1.25		KM8X1.25ISO-d6	5.9	6	3	18	50		●	●	●
1.25		M16X1.25	KM16X1.25ISO-d10	10	10	4	25	75		●	●	●
1.25		M20X1.25	KM20X1.25ISO-d12	12	12	4	25	100		●	●	●
1.5	M10X1.5		KM10X1.5ISO-d8	7.7	8	3	22	60		●	●	●
1.5		M12X1.5	KM12X1.5ISO-d10	9.4	10	4	24	75		●	●	●
1.5		M16X1.5	KM16X1.5ISO-d12	12	12	4	30	75		●	●	●
1.5		M20X1.5	KM20X1.5ISO-d16	15.95	16	4	40	100		●	●	●
1.5		M30X1.5	KM30X1.5ISO-d20	20	20	4	30	100		●	●	●
1.75	M12X1.75		KM12X1.75ISO-d10	9.5	10	4	25	75		●	●	●
2.0	M14X2.0		KM14X2.0ISO-d12	11.2	12	4	30	75		●	●	●
2.0		M20X2.0	KM20X2.0ISO-d16	15.95	16	4	40	100		●	●	●
2.5	M20X2.5		KM20X2.5ISO-d16	15.9	16	4	40	100		●	●	●
3.0	M24X3.0		KM24X3.0ISO-d16	15.9	16	4	40	100		●	●	●
3.5	M30X3.5		KM30X3.5ISO-d20	15.9	20	4	40	100		●	●	●

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

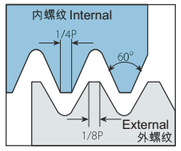
加工材料 Work Material

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○												

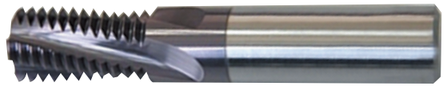
◎最适合Fit best ○适合Fit

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 | PRODUCT SPECIFICATION

unit:mm

螺距 Pitc 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		KVX	KW20	库存 STOCK
32	8"X32		KM8"X32UN-d4	3.2	4	3	11	50		●	●	●
32	10"X32		KM10"X32UN-d4	3.8	4	3	10	50		●	●	●
32	6"X32		KM6"X32UN-d4	2.56	4	3	8	50		●	●	●
24	10"X24		KM10"X24UN-d4	3.6	4	3	11	50		●	●	●
40	4"X40		KM4"X40UN-d4	2.13	4	3	7	50		●	●	●
56	2"X56		KM2"X56UN-d4	1.65	4	3	6	50		●	●	●
20	1/4"X20		KM1/4"X20UN-d6	4.9	6	3	13	50		●	●	●
18	5/16"X18		KM5/16"X18UN-d6	6	6	3	17	60		●	●	●
28		1/4"X28	KM1/4"X28UN-d6	4.6	6	3	15	50		●	●	●
24		5/16"X24	KM5/16"X24UN-d6	5.9	6	3	17	60		●	●	●
16	3/8"X16		KM3/8"X16UN-d8	7.65	8	3	20	65		●	●	●
14	7/16"X14		KM7/16"X14UN-d8	7.6	8	4	23.6	60		●	●	●
24		5/16"X24	KM5/16"X24UN-d8	6.88	8	3	21	65		●	●	●
18		5/8"X18	KM5/8"X18UN-d8	7.95	8	4	20	65		●	●	●
32		3/8"X32	KM3/8"X32UN-d8	7.9	8	4	20	65		●	●	●
24		3/8"X24	KM3/8"X24UN-d8	7.4	8	4	20	65		●	●	●
28		7/16"X28	KM7/16"X28UN-d8	7.9	8	4	20	60		●	●	●
20		1/2"X20	KM1/2"X20UN-d10	9.9	10	4	25	75		●	●	●
18		9/16"X18	KM9/16"X18UN-d10	10	10	4	30	75		●	●	●
20		7/16"X20	KM7/16"X20UN-d10	8.5	10	4	23	75		●	●	●
20		3/4"X20	KM3/4"X20UN-d10	9.95	10	4	25	75		●	●	●
13	1/2"X13		KM1/2"X13UN-d10	9.5	10	4	25	75		●	●	●
24		9/16"X24	KM9/16"X24UN-d12	11.9	12	4	30	75		●	●	●
11	5/8"X11		KM5/8"X11UN-d12	11.95	12	4	35	83		●	●	●
18		9/16"X18	KM9/16"X18UN-d12	11.95	12	4	30	83		●	●	●
14		7/8"X14	KM7/8"X14UN-d12	12	12	4	30	75		●	●	●
12	9/16"X12		KM9/16"X12UN-d12	11.8	12	4	28.6	75		●	●	●
20	3/4"X20		KM3/4"X20UN-d12	11.9	12	4	30	75		●	●	●
28		7/8"X28	KM7/8"X28UN-d12	12	12	4	25	75		●	●	●
16		3/4"X16	KM3/4"X16UN-d12	12	12	4	28	75		●	●	●
10	3/4"X10		KM3/4"X10UN-d16	14.5	16	5	40	100		●	●	●
9	7/8"X9		KM7/8"X9UN-d16	15.95	16	4	45	100		●	●	●
16		3/4"X16	KM3/4"X16UN-d16	15.9	16	5	40	100		●	●	●
14		7/8"X14	KM7/8"X14UN-d16	15.9	16	5	40	100		●	●	●
12		1"X12	KM1"X12UN-d16	16	16	5	40	100		●	●	●
8	1"X8		KM1"X8UN-d16	16	16	5	40	100		●	●	●
8	1"X8		KM1"X8UN-d20	19.95	20	5	50	100		●	●	●

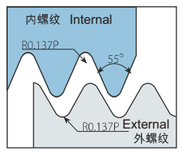
加工材料 Work Material

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○												

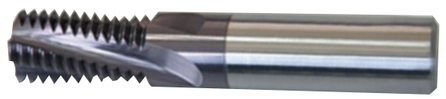
◎最适合Fit best ○适合Fit

BSP(G)-55° 英制标准管螺纹 整体合金螺纹铣刀

BSP(G)-55° 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 | PRODUCT SPECIFICATION

unit:mm

螺距 Pitch TPI	Standard	内外螺纹公用 订货号 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		KVX	KW20	库存 STOCK
28	1/16"X28 1/8"X28	KM1/16"X28BSP-d6(1/8"X28)	5.8	6	3	17	60		●	●	●
28	1/8"X28	KM1/8"X28BSP-d8	7.7	8	3	20	60		●	●	●
19	1/4"X19 3/8"X19	KM1/4"X19BSP-d12(3/8"X19)	9.9	12	4	27	75		●	●	●
19	3/8"X19	KM3/8"X19BSP-d14	11.9	14	4	26.7	75		●	●	●
14	1/2"X14 5/8"X14 3/4"X14	KM1/2"X14BSP-d16(5/8"X14/3/4"X14)	11.9	16	4	40	83		●	●	●
11	1"X11 1-1/2"X11	KM1"X11BSP-d16(1-1/2"X11)	16	16	5	42	100		●	●	●

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

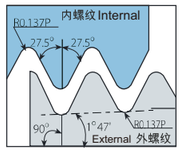
加工材料 Work Material

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 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

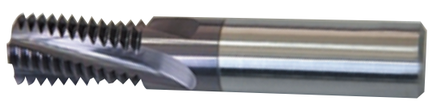
◎最适合Fit best ○适合Fit

BSPT-55° 英制标准锥管螺纹 整体合金螺纹铣刀

BSPT-55° 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 | PRODUCT SPECIFICATION

unit:mm

螺距 Pitch TPI	Standard	内外螺纹公用 订货号 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		KVX	KW20	库存 STOCK
28	1/16"X28 1/8"X28	KM1/16"X28BSPT-d6(1/8"X28)	5.8	6	3	17	60		●	●	●
28	1/8"X28	KM1/8"X28BSPT-d8	7.9	8	3	20	65		●	●	●
19	1/4"X19 3/8"X19	KM1/4"X19BSPT-d10(3/8"X19)	9.1	10	4	26.7	75		●	●	●
19	3/8"X19	KM3/8"X19BSPT-d12	11.9	12	4	30	75		●	●	●
14	1/2"X14 7/8"X14	KM1/2"X14BSPT-d16(7/8"X14)	11.9	16	4	33	83		●	●	●
14	3/4"X14 7/8"	KM3/4"X14BSPT-d16(7/8")	15.9	16	4	40	83		●	●	●
11	>1"X11	KM>1"X11BSPT-d16	15.9	16	5	30	100		●	●	●

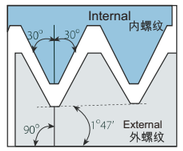
●标准库存Standard inventory ○订单生产The order production

加工材料 Work Material

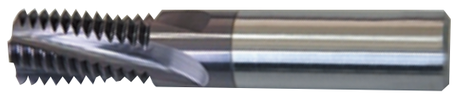
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 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° 美制标准锥管螺纹 整体合金螺纹铣刀
NPT-60° solid carbide thread mill



标准：USAS B2.1:1968
Defined by : USAS B2.1:1968
精度：Standard NPT
Tolerance class : Standard NPT





产品规格 | PRODUCT SPECIFICATION

unit:mm

螺距 Pitch TPI	Standard	内外螺纹公用 订货号 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		KVX	KW20	库存 STOCK
27	1/16"X27 1/8"X27	KM1/16"X27NPT-d8(1/8"X27)	5.3	8	3	15	65		●	●	●
27	1/8"X27	KM1/8"X27NPT-d8	7.1	8	3	15	65		●	●	●
18	1/4"X18 3/8"X18	KM1/4"X18NPT-d12(3/8"X18)	9.1	12	4	14.8	75		●	●	●
18	3/8"X18	KM3/8"X18NPT-d12	11.15	12	4	14.8	75		●	●	●
14	1/2"X14 5/8"X14 3/4"X14	KM1/2"X14NPT-d16(5/8"X14/3/4"X14)	15.5	16	4	25	100		●	●	●
11.5	1"X11 2"X11	KM1"X11NPT-d16(2"X11)	15.5	16	4	25	100		●	●	●
8	2-1/2" 3"	KM2-1/2NPT-d16(3")	13.72	16	4	30	83		●	●	●

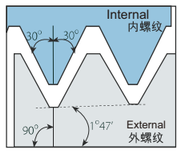
●标准库存Standard inventory ○订单生产The order production

加工材料 Work Material

碳素钢 S45C S55C 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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

NPTF 美制干密封锥管螺纹 整体合金螺纹铣刀
NPTF 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 | PRODUCT SPECIFICATION

unit:mm

螺距 Pitch TPI	Standard	内外螺纹公用 订货号 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		KVX	KW20	库存 STOCK
27	1/16"X27 1/8"X27	KM1/16"X27NPTF-d6(1/8"X27)	5.9	6	3	10	50		●	●	●
27	1/8"X27	KM1/8"X27NPTF-d8	7.65	8	3	15	60		●	●	●
18	1/4"X18 3/8"X18	KM1/4"X18NPTF-d10(3/8"X18)	9.9	10	4	14.8	75		●	●	●
18	3/8"X18	KM3/8"X18NPTF-d12	11.15	12	4	14.8	75		●	●	●
14	1/2"X14 5/8"X14 3/4"X14	KM1/2"X14NPTF-d16(5/8"X14/3/4"X14)	15.5	16	4	25	100		●	●	●
11.5	1"X11 2"X11	KM1"X11NPTF-d16(2"X11)	15.9	16	5	33	100		●	●	●

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

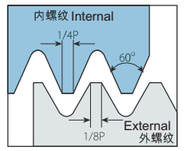
加工材料 Work Material

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○						○													

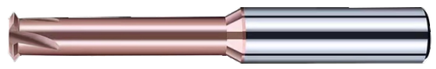
◎最适合Fit best ○适合Fit

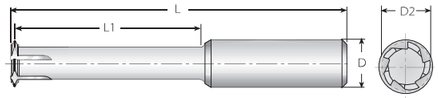
ISO标准型螺纹 整体合金螺纹铣刀

ISO Metric 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 | PRODUCT SPECIFICATION

unit:mm

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		KVX	KW20	库存 STOCK
0.2	M0.8X0.2	D1TM0.8X0.2ISO-d4	0.55	4	3	2	50		●	●	●
0.25	M1.0X0.25	D1TM1.0X0.25ISO-d4	0.73	4	3	2.3	50		●	●	●
0.25	M1.2X0.25	D1TM1.2X0.25ISO-d4	0.92	4	3	2.8	50		●	●	●
0.3	M1.4X0.3	D1TM1.4X0.3ISO-d4	1.05	4	3	3.2	50		●	●	●
0.35	M1.6X0.35	D1TM1.6X0.35ISO-d4	1.21	4	3	3.5	50		●	●	●
0.35	M1.8X0.35	D1TM1.8X0.35ISO-d4	1.4	4	3	5.6	50		●	●	●
0.4	M2.0X0.4	D1TM2.0X0.4ISO-d4	1.54	4	3	4.5	50		●	●	●
0.45	M2.5X0.45	D1TM2.5X0.45ISO-d4	1.96	4	3	5.5	50		●	●	●
0.5	M3X0.5	D1TM3X0.5ISO-d4	2.4	4	3	7	50		●	●	●
0.6	M3.5X0.6	D1TM3.5X0.6ISO-d4	2.75	4	3	10	50		●	●	●
0.7	M4X0.7	D1TM4X0.7ISO-d4	3.15	4	3	8.6	50		●	●	●
0.8	M5X0.8	D1TM5X0.8ISO-d4	4	4	3	12	50		●	●	●
1.0	M6X1.0	D1TM6X1.0ISO-d6	4.75	6	3	15	50		●	●	●
1.25	M8X1.25	D1TM8X1.25ISO-d6	5.95	6	3	20	50		●	●	●
1.5	M10X1.5	D1TM10X1.5ISO-d8	7.9	8	3	25	60		●	●	●
1.5	M12X1.5	D1TM12X1.5ISO-d10	10	10	4	30	75		●	●	●
1.75	M12X1.75	D1TM12X1.75ISO-d10	9.9	10	4	30	75		●	●	●
2.0	M14X2.0	D1TM14X2.0ISO-d12	9.9	12	4	30	75		●	●	●
2.0	M16X2.0	D1TM16X2.0ISO-d14	11.9	14	4	35	80		●	●	●
2.5	M18X2.5	D1TM18X2.5ISO-d16	14	16	4	40	90		●	●	●
2.5	M20X2.5	D1TM20X2.5ISO-d16	16	16	5	45	90		●	●	●

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

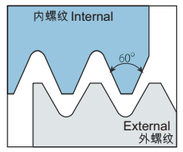
加工材料 Work Material

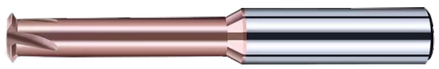
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
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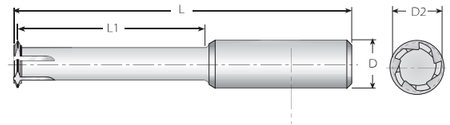
●最适合Fit best ○适合Fit

60°泛牙型螺纹 整体合金螺纹铣刀

Partial Profile 60° solid carbide thread mill







产品规格 | PRODUCT SPECIFICATION

unit:mm

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		KVX	KW20	库存 STOCK
0.5-0.8	D1T0.5-0.8-d4 60°	3.3	4	3	12	50		●	●	●
0.5-1.0	D1T0.5-1.0-d4 60°	4.0	4	4	12	50		●	●	●
0.5-1.25	D1T0.5-1.25-d6 60°	6.0	6	4	16	50		●	●	●
0.8-1.5	D1T0.8-1.5-d8 60°	8.0	8	4	25	60		●	●	●
1.25-2.0	D1T1.25-2.0-d10 60°	9.4	10	5	28	75		●	●	●
2.0-3.0	D1T2.0-3.0-d14 60°	14	14	5/6	40	100		●	●	●
2.0-4.0	D1T2.0-4.0-d16 60°	16	16	5/6	45	100		●	●	●

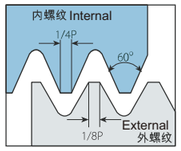
●标准库存Standard inventory ○订单生产The order production

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
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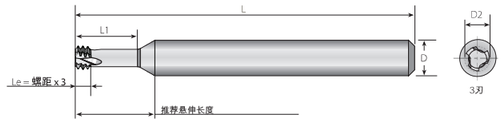
●最适合Fit best ○适合Fit

ISO标准型螺纹 整体合金螺纹铣刀
ISO Metric 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 | PRODUCT SPECIFICATION

unit:mm

螺距 Pitch	粗细牙 Coarse 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		KVX	KW20	库存 STOCK
0.25	M1.0X0.25	D3TM1.0X0.25-d4	0.73	4	3	2.3	50		●	●	●
0.25	M1.2X0.25	D3TM1.2X0.25-d4	0.92	4	3	3.3	50		●	●	●
0.3	M1.4X0.3	D3TM1.4X0.3-d4	1.05	4	3	3.2	50		●	●	●
0.35	M1.6X0.35	D3TM1.6X0.35-d4	1.21	4	3	3.5	50		●	●	●
0.35	M1.8X0.35	D3TM1.8X0.35-d4	1.4	4	3	4	50		●	●	●
0.4	M2.0X0.4	D3TM2.0X0.4-d4	1.54	4	3	4.5	50		●	●	●
0.45	M2.2X0.45	D3TM2.2X0.45-d4	1.65	4	3	5	50		●	●	●
0.45	M2.5X0.45	D3TM2.5X0.45-d4	1.96	4	3	7.5	50		●	●	●
0.5	M3X0.5	D3TM3X0.5-d4	2.42	4	3	7	50		●	●	●
0.5	M4X0.5	D3TM4X0.5-d4	3.4	4	3	8	50		●	●	●
0.5	M8X0.5	D3TM8X0.5-d6	5.95	6	3	16	50		●	●	●
0.5	M10X0.5	D3TM10X0.5-d8	7.95	8	3	25	60		●	●	●
0.6	M3.5X0.6	D3TM3.5X0.6-d4	2.75	4	3	9	50		●	●	●
0.7	M4X0.7	D3TM4X0.7-d4	3.15	4	3	8.8	50		●	●	●
0.75	M4.5X0.75	D3TM4.5X0.75-d4	3.5	4	3	11	50		●	●	●
0.75	M6X0.75	D3TM6X0.75-d6	4.75	6	3	13	50		●	●	●
0.75	M8X0.75	D3TM8X0.75-d6	5.95	6	3	20	50		●	●	●
0.75	M10X0.75	D3TM10X0.75-d8	7.95	8	3	25	60		●	●	●
0.8	M5X0.8	D3TM5X0.8-d4	7.95	4	3	25	50		●	●	●
1.0	M6X1.0	D3TM6X1.0-d6	3.95	6	3	14	50		●	●	●
1.0	M8X1.0	D3TM8X1.0-d6	5.9	6	3	20	50		●	●	●
1.0	M10X1.0	D3TM10X1.0-d8	7.9	8	3	21	60		●	●	●
1.0	M12X1.0	D3TM12X1.0-d10	9.9	10	4	30	75		●	●	●
1.0	M14X1.0	D3TM14X1.0-d10	9.9	10	4	28	75		●	●	●
1.0	M16X1.0	D3TM16X1.0-d12	11.9	12	4	35	75		●	●	●
1.0	M20X1.0	D3TM20X1.0-d16	15.9	16	4	50	90		●	●	●
1.25	M8X1.25	D3TM8X1.25-d6	5.95	6	3	17.5	50		●	●	●
1.25	M10X1.25	D3TM10X1.25-d8	7.95	8	3	21	60		●	●	●
1.25	M12X1.25	D3TM12X1.25-d10	9.9	10	4	30	75		●	●	●
1.5	M10X1.5	D3TM10X1.5-d8	7.9	8	3	22	60		●	●	●
1.5	M12X1.5	D3TM12X1.5-d10	9.9	10	4	30	75		●	●	●
1.5	M16X1.5	D3TM16X1.5-d12	11.9	12	4	35	75		●	●	●
1.5	M20X1.5	D3TM20X1.5-d16	15.9	16	4	40	90		●	●	●
1.75	M12X1.75	D3TM12X1.75-d10	9.9	10	4	28	75		●	●	●
2.0	M14X2.0	D3TM14X2.0-d10	9.9	10	4	28	75		●	●	●
2.0	M16X2.0	D3TM16X2.0-d12	11.9	12	4	35	75		●	●	●
2.5	M20X2.5	D3TM20X2.5-d16	15.9	16	4	50	100		●	●	●
3.0	M24X3.0	D3TM24X3.0-d16	15.9	16	4	50	100		●	●	●
									●	●	●

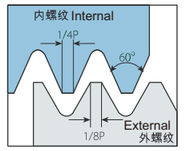
●标准库存Standard inventory ○订单生产The order production

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○												

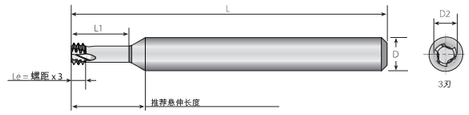
◎最适合Fit best ○适合Fit

UN-60° 美制统一标准螺纹 整体合金螺纹铣刀
American UN 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 | PRODUCT SPECIFICATION

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	L1 刃长 Flute length	L 全长 O. A. L		KVX	KW20	库存 STOCK
80		NO.0-80	D3TNO.0-80-d4 60°	1.18	4	3	3.5	50		●	●	●
72		NO.1-72	D3TNO.1-72-d4 60°	1.44	4	3	3.8	50		●	●	●
64	NO.1-64	NO.2-64	D3TNO.1-64-d4 60° (NO.2-64)	1.4	4	3	4.0	50		●	●	●
56	NO.2-56	NO.3-56	D3TNO.2-56-d4 60° (NO.3-56)	1.65	4	3	5.0	50		●	●	●
48	NO.3-48	NO.4-48	D3TNO.3-48-d4 60° (NO.4-48)	1.9	4	3	5.0	50		●	●	●
40	NO.4-40		D3TNO.4-40-d4 60°	2.13	4	3	6.0	50		●	●	●
40	NO.5-40	NO.6-40	D3TNO.5-40-d4 60° (NO.6-40)	2.46	4	3	8.0	50		●	●	●
36		NO.8-36	D3TNO.8-36-d4 60°	3.31	4	3	8.7	50		●	●	●
32	NO.6-32		D3TNO.6-32-d4 60°	2.56	4	3	7.4	50		●	●	●
32	NO.8-32		D3TNO.8-32-d4 60°	3.2	4	3	11.0	50		●	●	●
32		NO.10-32	D3TNO.10-32-d4 60°	3.8	4	3	10.0	50		●	●	●
28		1/4-28	D3T1/4-28-d6 60°	5.0	6	3	15.0	50		●	●	●
24	NO.10-24		D3T10-24-d4 60°	3.6	4	3	11.0	50		●	●	●
24		5/16-24	D3T5/16-24-d6 60°	5.95	6	3	18.0	60		●	●	●
20	1/4-20		D3T1/4-20-d6 60°	4.87	6	3	13.75	50		●	●	●
20		7/16-20	D3T7/16-20-d10 60°	9.5	10	4	28	75		●	●	●
18	5/16-18		D3T5/16-18-d6 60°	5.9	6	3	18	50		●	●	●
16	3/8-16		D3T3/8-16-d8 60°	7.65	8	3	20	60		●	●	●
14	7/16-14		D3T7/16-14-d10 60°	9.0	10	4	28	75		●	●	●

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

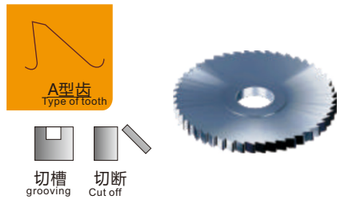
加工材料 Work Material

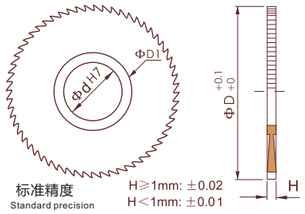
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass Fiber	电木 Bakelite	石墨 Graphite	氧化锆 Zirconium oxide	单晶硅 Silicon	陶瓷 Ceramic	碳纤维 Carbon Fiber
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◎最适合Fit best ○适合Fit

A型齿整体硬质合金锯片铣刀

A-Tooth Type Tungsten Carbide Circular Saw Blade Milling cutter





产品规格 | PRODUCT SPECIFICATION

unit:mm

代码 code	D 外径 Outer diameter mm	H 厚度 Thickness mm	T 常用齿数 Commonly used teeth	齿形 Teeth Type	d 内径 Inner diameter mm
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

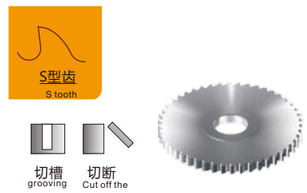
加工材料 Work Material

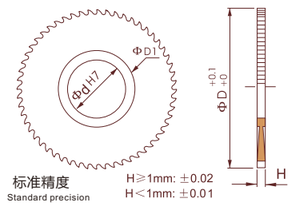
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Steel ~50 HRC	Hardened Steel ~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 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片铣刀

S-Tooth Type Tungsten Carbide Circular Saw Blade Milling cutter





产品规格 | PRODUCT SPECIFICATION

unit:mm

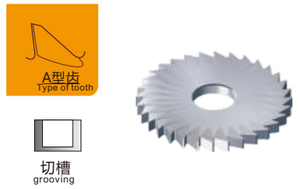
代码 code	D 外径 Outer diameter mm	H 厚度 Thickness mm	T 常用齿数 Commonly used teeth	齿形 Teeth Type	d 内孔 Inner diameter mm
KAA	12	0.15-3.0	**16**.12	S-type	4
	16	0.15-3.0	**20**.16		5
	20	0.30-3.0	40.32.**24**.20		6
	25	0.30-3.0	32.**24**.20		8
	32	0.30-4.0	48.40.32.**24**		8
	40	0.30-6.0	56.48.40.**32**.24		10
	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

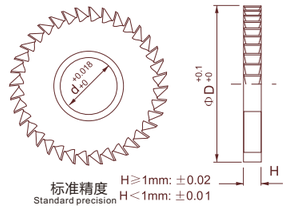
加工材料 Work Material

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 Chilled Steel ~50 HRC	Hardened Steel ~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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

整体硬质合金三面刃锯片铣刀
Tungsten Carbide Side and Face Saw Blade Milling Cutter





产品规格 | PRODUCT SPECIFICATION

unit:mm

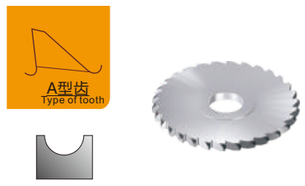
代码 code	D 外径 Outer diameter mm	H 厚度 Thickness mm	T 常用齿数 Commonly used teeth	齿形 Teeth Type	d 内孔 Inner diameter mm
KAB	32	2.0-6.0	32.24.20.**16**	A-type	8
	40	2.0-6.0	40.32.24.**20**		10
	45	2.0-6.0	40.32.**24**.**20**		12.7.13
	50	2.0-6.0	48.40.32.**24**		13
	63	2.0-8.0	56.48.40.**32**.24		16
	70	2.0-8.0	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

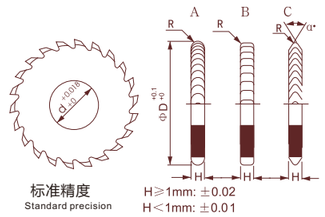
加工材料 Work Material

碳素钢 S45C S55C 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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
Tungsten Carbide Convex Semicircle Saw Blade Milling Cutter





产品规格 | PRODUCT SPECIFICATION

unit:mm

代码 code	D 外径 Outer diameter mm	H 厚度 Thickness mm	T 常用齿数 Commonly used teeth	齿形 Teeth Type	d 内孔 Inner diameter mm
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
		2.0-8.0			

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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
◎	◎	◎	○					○													

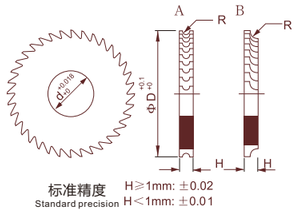
◎最适合Fit best ○适合Fit

整体硬质合金凹半圆锯片铣刀

Tungsten Carbide Concave Semicircle Saw Blade Milling Cutter







标准精度 H≥1mm: ±0.02
Standard precision H<1mm: ±0.01

产品规格 | PRODUCT SPECIFICATION

unit:mm

代码 code	D 外径 Outer diameter mm	H 厚度 Thickness mm	T 常用齿数 Commonly used teeth	齿形 Teeth Type	d 内孔 Inner diameter mm
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

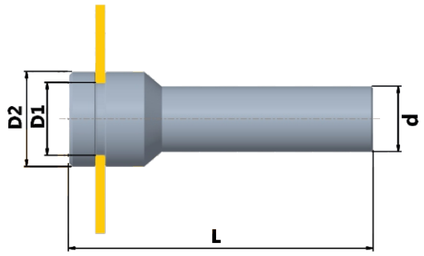
碳素钢 S45C S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	不锈钢 S304L 316L Stainless Steel	预热钢 NAK/HPM Pre Hardened Steel 淬火钢 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	铜合金 Copper Alloy	铝合金 Aluminum Alloy	树脂 Resin	工程塑料 Plastics	玻璃纤维 Glass 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

锯片刀杆

Saw Blade Holder





产品规格 | PRODUCT SPECIFICATION

型号 model	D1 锯片内径 Saw blade Inner dia.	D2 刀头直径 Holder Head Diameter	d 刀柄直径 Shank Diameter	L 刀杆总长 Overal length	库存 STOCK
D3-D6-D6-L50	3	6	6	50	●
D4-D8-D8-L55	4	8	8	55	●
D5-D8-D8-L50	5	8	8	50	●
D5-D10-D10-L70	5	10	10	70	●
D6-D10-D10-L70	6	10	10	70	●
D8-D12-D12-L70	8	12	12	70	●
D8-D12-D8-45-L70	8	12	8	70	●
D8-D12-D12-L100	8	15	12	100	●
D10-D15-D10-L70	10	15	10	70	●
D10-D15-D8-L70	10	18	8	70	●
D13-D18-D12-L70	13	22	12	70	●
D16-D22-D16-L80	16	22	16	80	●
D16-D22-D12-L80	16	22	12	80	●
D16-D22-D16-L130	16	22	16	130	●
D16-D22-D20-L150	16	22	20	150	●
D16-D22-D20-L200	16	22	20	200	●
D22-D28-D20-L90	22	28	20	90	●
D22-D28-D16-L90	22	28	16	90	●
D25.4-D32-D20-L60	25.4	32	20	60	●
D27-D32-D20-L90	27	32	20	90	●
D27-D32-D20-L160	27	32	20	160	●

●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 Chilled Hardened Steel ~50 HRC	~55 HRC	~60 HRC	~62 HRC	~65 HRC	铸铁 Cast iron	钛合金 Titanium Alloy	高温合金 Superalloy	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
Carbide Drill



Contents
目录 ▶

M

合金钻头 Carbide Drill

平底钻系列 M01-M04
Flat Drills

微钻系列 M05-M29
Micro Drills

高性能合金钻（定柄） M30-M39
High Performance Drills (End Mill Shank)

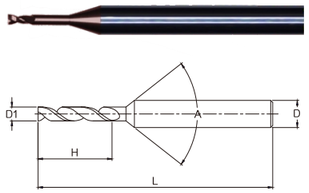
普通直柄合金钻 M40-M49
General Drills (Straight Shank)

定点钻 M50-M51
Spotting Drill

中心钻 M52
Center Drill

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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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)

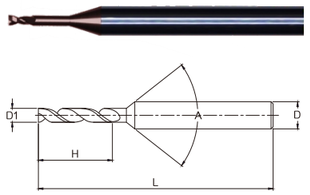
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L
CFD-0500	○	0.50	2.5	3	38
CFD-0510	○	0.51	2.5	3	38
CFD-0520	○	0.52	2.5	3	38
CFD-0530	○	0.53	2.5	3	38
CFD-0540	○	0.54	2.5	3	38
CFD-0550	○	0.55	2.5	3	38
CFD-0560	○	0.56	2.5	3	38
CFD-0570	○	0.57	2.5	3	38
CFD-0580	○	0.58	2.5	3	38
CFD-0590	○	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

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
CFD-0970	○	0.97	3.0	3	38
CFD-0980	○	0.98	3.0	3	38
CFD-0990	○	0.99	3.0	3	38
CFD-1000	○	1.00	4.0	3	38
CFD-1010	○	1.01	4.0	3	38
CFD-1020	○	1.02	4.0	3	38
CFD-1030	○	1.03	4.0	3	38
CFD-1040	○	1.04	4.0	3	38
CFD-1050	○	1.05	4.0	3	38
CFD-1060	○	1.06	4.0	3	38
CFD-1070	○	1.07	4.0	3	38
CFD-1080	○	1.08	4.0	3	38
CFD-1090	○	1.09	4.0	3	38
CFD-1100	○	1.10	4.0	3	38
CFD-1110	○	1.11	4.0	3	38
CFD-1120	○	1.12	4.0	3	38
CFD-1130	○	1.13	4.0	3	38
CFD-1140	○	1.14	4.0	3	38
CFD-1150	○	1.15	4.0	3	38
CFD-11 60	○	1.16	4.0	3	38
CFD-1170	○	1.17	4.0	3	38
CFD-1180	○	1.18	4.0	3	38
CFD-1190	○	1.19	4.0	3	38
CFD-1200	○	1.20	4.5	3	38
CFD-1210	○	1.21	4.5	3	38
CFD-1220	○	1.22	4.5	3	38
CFD-1230	○	1.23	4.5	3	38
CFD-1240	○	1.24	4.5	3	38
CFD-1250	○	1.25	4.5	3	38
CFD-1260	○	1.26	4.5	3	38
CFD-1270	○	1.27	4.5	3	38
CFD-1280	○	1.28	4.5	3	38
CFD-1290	○	1.29	4.5	3	38
CFD-1300	○	1.30	4.5	3	38
CFD-1310	○	1.31	4.5	3	38
CFD-1320	○	1.32	4.5	3	38
CFD-1330	○	1.33	4.5	3	38
CFD-1340	○	1.34	4.5	3	38
CFD-1350	○	1.35	4.5	3	38
CFD-1360	○	1.36	4.5	3	38
CFD-1370	○	1.37	4.5	3	38
CFD-1380	○	1.38	4.5	3	38
CFD-1390	○	1.39	4.5	3	38
CFD-1400	○	1.40	4.5	3	38
CFD-1410	○	1.41	4.5	3	38
CFD-1420	○	1.42	4.5	3	38
CFD-1430	○	1.43	4.5	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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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)

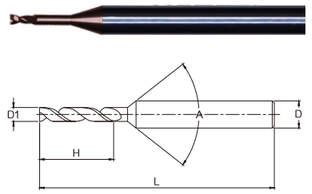
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L
CFD-1440	○	1.44	4.5	3	38
CFD-1450	○	1.45	4.5	3	38
CFD-1460	○	1.46	4.5	3	38
CFD-1470	○	1.47	4.5	3	38
CFD-1480	○	1.48	4.5	3	38
CFD-1490	○	1.49	4.5	3	38
CFD-1500	○	1.50	5.0	3	38
CFD-1510	○	1.51	5.0	3	38
CFD-1520	○	1.52	5.0	3	38
CFD-1530	○	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

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
CFD-1910	○	1.91	7.0	3	38
CFD-1920	○	1.92	7.0	3	38
CFD-1930	○	1.93	7.0	3	38
CFD-1940	○	1.94	7.0	3	38
CFD-1950	○	1.95	7.0	3	38
CFD-1960	○	1.96	7.0	3	38
CFD-1970	○	1.97	7.0	3	38
CFD-1980	○	1.98	7.0	3	38
CFD-1990	○	1.99	7.0	3	38
CFD-2000	○	2.00	8.0	3	38
CFD-2010	○	2.01	8.0	3	38
CFD-2020	○	2.02	8.0	3	38
CFD-2030	○	2.03	8.0	3	38
CFD-2040	○	2.04	8.0	3	38
CFD-2050	○	2.05	8.0	3	38
CFD-2060	○	2.06	8.0	3	38
CFD-2070	○	2.07	8.0	3	38
CFD-2080	○	2.08	8.0	3	38
CFD-2090	○	2.09	8.0	3	38
CFD-2100	○	2.10	8.0	3	38
CFD-2110	○	2.11	8.0	3	38
CFD-2120	○	2.12	8.0	3	38
CFD-2130	○	2.13	8.0	3	38
CFD-2140	○	2.14	8.0	3	38
CFD-2150	○	2.15	8.0	3	38
CFD-2160	○	2.16	8.0	3	38
CFD-2170	○	2.17	8.0	3	38
CFD-2180	○	2.18	8.0	3	38
CFD-2190	○	2.19	8.0	3	38
CFD-2200	○	2.20	8.5	3	38
CFD-2210	○	2.21	8.5	3	38
CFD-2220	○	2.22	8.5	3	38
CFD-2230	○	2.23	8.5	3	38
CFD-2240	○	2.24	8.5	3	38
CFD-2250	○	2.25	8.5	3	38
CFD-2260	○	2.26	8.5	3	38
CFD-2270	○	2.27	8.5	3	38
CFD-2280	○	2.28	8.5	3	38
CFD-2290	○	2.29	8.5	3	38
CFD-2300	○	2.30	9.0	3	38
CFD-2310	○	2.31	9.0	3	38
CFD-2320	○	2.32	9.0	3	38
CFD-2330	○	2.33	9.0	3	38
CFD-2340	○	2.34	9.0	3	38
CFD-2350	○	2.35	9.0	3	38
CFD-2360	○	2.36	9.0	3	38
CFD-2370	○	2.37	9.0	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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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
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

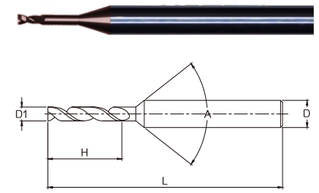
●标准库存 ○订单生产

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
CFD-2850	○	2.85	10.0	3	38
CFD-2860	○	2.86	10.0	3	38
CFD-2870	○	2.87	10.0	3	38
CFD-2880	○	2.88	10.0	3	38
CFD-2890	○	2.89	10.0	3	38
CFD-2900	○	2.90	10.0	3	38
CFD-2910	○	2.91	10.0	3	38
CFD-2920	○	2.92	10.0	3	38
CFD-2930	○	2.93	10.0	3	38
CFD-2940	○	2.94	10.0	3	38
CFD-2950	○	2.95	10.0	3	38
CFD-2960	○	2.96	10.0	3	38
CFD-2970	○	2.97	10.0	3	38
CFD-2980	○	2.98	10.0	3	38
CFD-2990	○	2.99	10.0	3	38
CFD-3000	○	3.00	10.0	3	38
CFD-3100	○	3.10	15.0	4	50
CFD-3200	○	3.20	15.0	4	50
CFD-3300	○	3.30	15.0	4	50
CFD-3400	○	3.40	15.0	4	50
CFD-3500	○	3.50	15.0	4	50
CFD-3600	○	3.60	15.0	4	50
CFD-3700	○	3.70	15.0	4	50
CFD-3800	○	3.80	15.0	4	50
CFD-3900	○	3.90	15.0	4	50
CFD-4000	○	4.00	20.0	4	55
CFD-4100	○	4.10	20.0	6	55
CFD-4200	○	4.20	20.0	6	55
CFD-4300	○	4.30	20.0	6	55
CFD-4400	○	4.40	20.0	6	55
CFD-4500	○	4.50	20.0	6	55
CFD-4600	○	4.60	20.0	6	55
CFD-4700	○	4.70	20.0	6	55
CFD-4800	○	4.80	20.0	6	55
CFD-4900	○	4.90	20.0	6	55
CFD-5000	○	5.00	25.0	6	60
CFD-5100	○	5.10	25.0	6	60
CFD-5200	○	5.20	25.0	6	60
CFD-5300	○	5.30	25.0	6	60
CFD-5400	○	5.40	25.0	6	60
CFD-5500	○	5.50	25.0	6	60
CFD-5600	○	5.60	25.0	6	60
CFD-5700	○	5.70	25.0	6	60
CFD-5800	○	5.80	25.0	6	60
CFD-5900	○	5.90	25.0	6	60
CFD-6000	○	6.00	25.0	8	60
CFD-6100	○	6.10	30.0	8	75

●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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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)

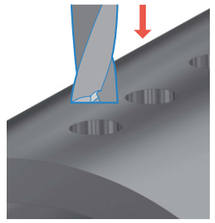
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L
CFD-6200	○	6.20	30.0	8	75
CFD-6300	○	6.30	30.0	8	75
CFD-6400	○	6.40	30.0	8	75
CFD-6500	○	6.50	30.0	8	75
CFD-6600	○	6.60	30.0	8	75
CFD-6700	○	6.70	30.0	8	75
CFD-6800	○	6.80	30.0	8	75
CFD-6900	○	6.90	30.0	8	75
CFD-7000	○	7.00	30.0	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

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
CFD-9200	○	9.20	35.0	10	80
CFD-9300	○	9.30	36.0	10	80
CFD-9400	○	9.40	36.0	10	80
CFD-9500	○	9.50	37.0	10	80
CFD-9600	○	9.60	37.0	10	80
CFD-9700	○	9.70	37.0	10	80
CFD-9800	○	9.80	38.0	10	80
CFD-9900	○	9.90	38.0	10	80
CFD-10000	○	10.00	39.0	10	80
CFD-10100	○	10.10	39.0	12	85
CFD-10200	○	10.20	39.0	12	85
CFD-10300	○	10.30	40.0	12	85
CFD-10400	○	10.40	40.0	12	85
CFD-10500	○	10.50	40.0	12	85
CFD-10600	○	10.60	41.0	12	85
CFD-10700	○	10.70	41.0	12	85
CFD-10800	○	10.80	42.0	12	85
CFD-10900	○	10.90	42.0	12	85
CFD-11000	○	11.00	42.0	12	85
CFD-11100	○	11.10	43.0	12	85
CFD-11200	○	11.20	43.0	12	85
CFD-11300	○	11.30	44.0	12	85
CFD-11400	○	11.40	44.0	12	85
CFD-11500	○	11.50	44.0	12	85
CFD-11600	○	11.60	45.0	12	90
CFD-11700	○	11.70	45.0	12	90
CFD-11800	○	11.80	45.0	12	90
CFD-11900	○	11.90	46.0	12	90
CFD-12000	○	12.00	46.0	12	90

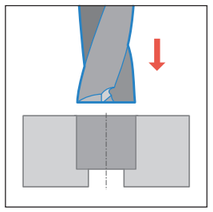
●标准库存 ○订单生产



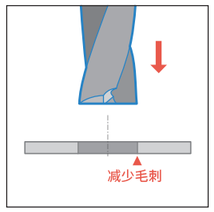
适用于斜面和圆弧面孔加工！可抑制通孔出口部分的毛刺
Effective for drilling in inclined and cylindrical surfaces!
Reduces burrs at hole exits

主要应用:
APPLICATIONS:

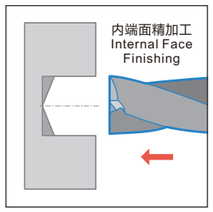
扩孔加工
Hole Counterboring



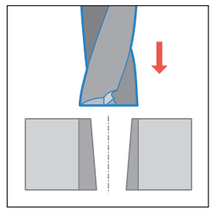
薄板的插铣加工
Plunging on Thin Plate



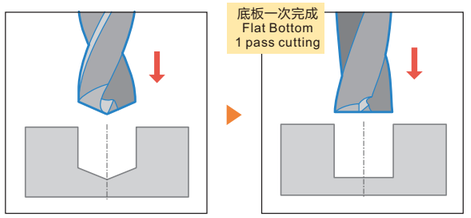
自动车床加工
Turning in Automatic Lathes



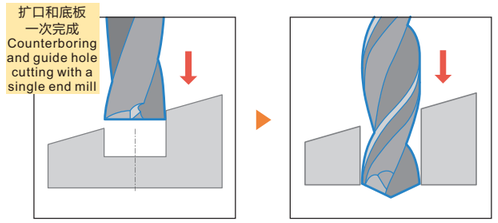
自动车床加工
Turning in Automatic Lathes



钻孔加工后的底面精加工
Bottom Finishing after Drilling



对斜面的扩孔和导向孔加工
Counterboring on Slant Surface/Guide Hole Cutting



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.

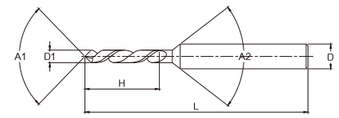
刃径 Diameter	切削条件 Cutting Conditions	一般構造用鋼 炭素鋼 Structural Steel Carbon Steel ~250HB	合金鋼 Alloy Steel ~300HB	高硬度材料 Hardened Steel ~50HRC	不锈钢 Stainless Steel ~200HB	灰口铸铁 Gray Cast Iron FC250	球墨铸铁 Ductile Cast Iron FCD450	铝合金 Aluminum Alloy
0.5	Vc m/min	30-40-50	30-35-40	15-20-25	15-20-25	30-40-50	20-30-40	60-80-100
	f mm/rev	0.004-0.005-0.006	0.004-0.005-0.006	0.001-0.002-0.003	0.003-0.004-0.005	0.004-0.005-0.006	0.001-0.003-0.005	0.003-0.005-0.007
1.0	Vc m/min	45-55-65	35-45-55	20-30-40	20-25-30	45-55-65	30-40-50	80-100-120
	f mm/rev	0.01-0.03-0.05	0.01-0.03-0.05	0.002-0.006-0.01	0.005-0.007-0.01	0.01-0.03-0.05	0.005-0.01-0.015	0.01-0.02-0.03
2.0	Vc m/min	50-60-70	40-50-60	20-30-40	20-30-40	50-60-70	45-55-65	90-110-130
	f mm/rev	0.02-0.04-0.06	0.02-0.04-0.06	0.01-0.018-0.025	0.01-0.015-0.02	0.02-0.04-0.06	0.015-0.03-0.045	0.03-0.05-0.07
4.0	Vc m/min	60-75-90	50-65-80	20-30-40	20-30-40	60-75-90	55-65-75	90-110-130
	f mm/rev	0.06-0.08-0.10	0.05-0.08-0.10	0.01-0.02-0.03	0.01-0.02-0.03	0.06-0.08-0.10	0.04-0.06-0.08	0.06-0.08-0.10
6.0	Vc m/min	60-75-90	50-65-80	20-30-40	20-30-50	60-75-90	60-70-80	90-110-130
	f mm/rev	0.05-0.10-0.15	0.05-0.10-0.15	0.04-0.06-0.08	0.03-0.04-0.05	0.05-0.10-0.15	0.06-0.09-0.12	0.05-0.10-0.15
8.0	Vc m/min	60-75-90	50-65-80	20-30-40	20-30-50	60-75-90	60-70-80	90-110-130
	f mm/rev	0.10-0.15-0.20	0.10-0.15-0.20	0.06-0.08-0.10	0.04-0.06-0.08	0.10-0.15-0.20	0.10-0.12-0.15	0.10-0.15-0.20
10.0	Vc m/min	60-75-90	50-65-80	20-30-40	20-30-50	60-75-90	60-70-80	90-110-130
	f mm/rev	0.12-0.17-0.22	0.12-0.17-0.22	0.08-0.10-0.12	0.06-0.08-0.10	0.12-0.17-0.22	0.12-0.15-0.18	0.12-0.17-0.22
12.0	Vc m/min	60-75-90	50-65-80	20-30-40	20-30-50	60-75-90	60-70-80	90-110-130
	f mm/rev	0.15-0.20-0.25	0.15-0.20-0.25	0.12-0.15-0.18	0.08-0.10-0.12	0.15-0.20-0.25	0.15-0.18-0.20	0.15-0.20-0.25

CPD- GENERAL PURPOSE MICRO DRILLS

CPD 普通微型钻头

超微粒 MICRO GRAIN | SHANK 3.0mm | SHANK 3.175mm | SHANK 4.0mm | Regular Flute | 螺旋 35° | 120°





- 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	淬火钢 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
CPD0040	○	0.040	0.40	3	38
CPD0045	○	0.045	0.45	3	38
CPD0050	○	0.050	0.50	3	38
CPD0055	○	0.055	0.55	3	38
CPD0060	○	0.060	0.60	3	38
CPD0065	○	0.065	0.65	3	38
CPD0070	○	0.070	0.70	3	38
CPD0075	○	0.075	0.75	3	38
CPD0080	○	0.080	0.80	3	38
CPD0085	○	0.085	0.85	3	38
CPD0090	○	0.090	0.90	3	38
CPD0095	○	0.095	0.95	3	38
CPD0100	○	0.10	1.5	3	38
CPD0110	○	0.11	1.5	3	38
CPD0120	○	0.12	2.5	3	38
CPD0130	○	0.13	2.5	3	38
CPD0140	○	0.14	2.5	3	38
CPD0150	○	0.15	2.5	3	38
CPD0160	○	0.16	2.5	3	38
CPD0170	○	0.17	2.5	3	38
CPD0180	○	0.18	2.5	3	38
CPD0190	○	0.19	2.5	3	38
CPD0200	○	0.20	3.5	3	38
CPD0210	○	0.21	3.5	3	38
CPD0220	○	0.22	3.5	3	38
CPD0230	○	0.23	3.5	3	38
CPD0240	○	0.24	3.5	3	38
CPD0250	○	0.25	3.5	3	38
CPD0260	○	0.26	3.5	3	38
CPD0270	○	0.27	3.5	3	38
CPD0280	○	0.28	3.5	3	38
CPD0290	○	0.29	3.5	3	38
CPD0300	○	0.30	5.0	3	38
CPD0310	○	0.31	5.0	3	38
CPD0320	○	0.32	5.0	3	38
CPD0330	○	0.33	5.0	3	38
CPD0340	○	0.34	5.0	3	38
CPD0350	○	0.35	5.0	3	38
CPD0360	○	0.36	5.0	3	38
CPD0370	○	0.37	5.0	3	38
CPD0380	○	0.38	5.0	3	38
CPD0390	○	0.39	5.0	3	38
CPD0400	○	0.40	6.0	3	38
CPD0410	○	0.41	6.0	3	38
CPD0420	○	0.42	6.0	3	38
CPD0430	○	0.43	6.0	3	38
CPD0440	○	0.44	6.0	3	38

●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
CPD0450	○	0.45	6.0	3	38
CPD0460	○	0.46	6.0	3	38
CPD0470	○	0.47	6.0	3	38
CPD0480	○	0.48	6.0	3	38
CPD0490	○	0.49	6.0	3	38
CPD0500	○	0.50	6.0	3	38
CPD0510	○	0.51	6.0	3	38
CPD0520	○	0.52	6.0	3	38
CPD0530	○	0.53	6.0	3	38
CPD0540	○	0.54	6.0	3	38
CPD0550	○	0.55	6.0	3	38
CPD0560	○	0.56	6.0	3	38
CPD0570	○	0.57	6.0	3	38
CPD0580	○	0.58	6.0	3	38
CPD0590	○	0.59	6.0	3	38
CPD0600	○	0.60	7.0	3	38
CPD0610	○	0.61	7.0	3	38
CPD0620	○	0.62	7.0	3	38
CPD0630	○	0.63	7.0	3	38
CPD0640	○	0.64	7.0	3	38
CPD0650	○	0.65	7.0	3	38
CPD0660	○	0.66	7.0	3	38
CPD0670	○	0.67	7.0	3	38
CPD0680	○	0.68	7.0	3	38
CPD0690	○	0.69	7.0	3	38
CPD0700	○	0.70	8.0	3	38
CPD0710	○	0.71	8.0	3	38
CPD0720	○	0.72	8.0	3	38
CPD0730	○	0.73	8.0	3	38
CPD0740	○	0.74	8.0	3	38
CPD0750	○	0.75	8.0	3	38
CPD0760	○	0.76	8.0	3	38
CPD0770	○	0.77	8.0	3	38
CPD0780	○	0.78	8.0	3	38
CPD0790	○	0.79	8.0	3	38
CPD0800	○	0.80	8.0	3	38
CPD0810	○	0.81	8.0	3	38
CPD0820	○	0.82	8.0	3	38
CPD0830	○	0.83	8.0	3	38
CPD0840	○	0.84	8.0	3	38
CPD0850	○	0.85	8.0	3	38
CPD0860	○	0.86	8.0	3	38
CPD0870	○	0.87	8.0	3	38
CPD0880	○	0.88	8.0	3	38
CPD0883	○	0.883	8.0	3	38
CPD0885	○	0.885	8.0	3	38
CPD0887	○	0.887	8.0	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
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

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
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

●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
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

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
CPD2600	○	2.60	12.0	3	38
CPD2610	○	2.61	12.0	3	38
CPD2620	○	2.62	12.0	3	38
CPD2630	○	2.63	12.0	3	38
CPD2640	○	2.64	12.0	3	38
CPD2650	○	2.65	12.0	3	38
CPD2660	○	2.66	12.0	3	38
CPD2670	○	2.67	12.0	3	38
CPD2680	○	2.68	12.0	3	38
CPD2690	○	2.69	12.0	3	38
CPD2700	○	2.70	12.0	3	38
CPD2710	○	2.71	12.0	3	38
CPD2720	○	2.72	12.0	3	38
CPD2730	○	2.73	12.0	3	38
CPD2740	○	2.74	12.0	3	38
CPD2750	○	2.75	12.0	3	38
CPD2760	○	2.76	12.0	3	38
CPD2770	○	2.77	12.0	3	38
CPD2780	○	2.78	12.0	3	38
CPD2785	○	2.785	12.0	3	38
CPD2790	○	2.79	12.0	3	38
CPD2800	○	2.80	12.0	3	38
CPD2810	○	2.81	12.0	3	38
CPD2820	○	2.82	12.0	3	38
CPD2830	○	2.83	12.0	3	38
CPD2840	○	2.84	12.0	3	38
CPD2850	○	2.85	12.0	3	38
CPD2860	○	2.86	12.0	3	38
CPD2870	○	2.87	12.0	3	38
CPD2880	○	2.88	12.0	3	38
CPD2890	○	2.89	12.0	3	38
CPD2900	○	2.90	12.0	3	38
CPD2910	○	2.91	12.0	3	38
CPD2920	○	2.92	12.0	3	38
CPD2930	○	2.93	12.0	3	38
CPD2940	○	2.94	12.0	3	38
CPD2950	○	2.95	12.0	3	38
CPD2960	○	2.96	12.0	3	38
CPD2970	○	2.97	12.0	3	38
CPD2980	○	2.98	12.0	3	38
CPD2990	○	2.99	12.0	3	38
CPD3000	○	3.00	12.0	3	38

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

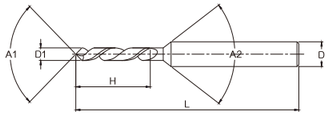
被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不锈钢 Stainless Steel			铝合金 Aluminum Alloy			铜合金 Copper Alloy			工程塑胶、树脂 Plastics Resin		
直径 Drill Dia. mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 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	10000~20000	5~20	0.0005~0.001	10000~30000	10~90	0.001~0.003	10000~20000	20~100	0.002~0.005	10000~20000	10~60	0.001~0.003
0.1-0.29	19000~13000	38~130	0.002~0.01	16000~11000	22~75	0.0014~0.007	13000~8800	13~35	0.001~0.004	10000~5000	5	0.0005~0.001	22200~16500	110~330	0.005~0.02	16000~11000	32~88	0.002~0.008	20000~15000	100~150	0.005~0.01
0.3-0.49	13000~12000	130~240	0.01~0.02	11000~9700	75~95	0.007~0.01	8800~6500	26~32	0.003~0.005	5000~4500	5~22	0.001~0.005	16500~13000	330~520	0.02~0.04	11000~11500	88~170	0.008~0.015	15000	150~300	0.01~0.02
0.5-0.99	12000~9600	240~380	0.02~0.04	9700~6400	95~128	0.01~0.02	6500~4800	32~48	0.005~0.01	4500~3200	22~32	0.005~0.01	13000~12700	520~760	0.04~0.06	11500~9600	170~380	0.015~0.04	15000~10000	150~400	0.02~0.04
1.0-1.99	9600~6400	290~380	0.03~0.06	6400~4000	128~200	0.02~0.05	3100~2400	31~72	0.01~0.03	3200~2400	32~72	0.01~0.03	12700~6400	760	0.06~0.12	9600~4800	380	0.04~0.08	10000~6000	500	0.05~0.07
2.0-3.0	6400~4200	440	0.07~0.1	4000~3200	200~260	0.05~0.08	2400~1600	48~64	0.02~0.04	2400~1800	72~90	0.03~0.05	6400~5300	760~1060	0.12~0.2	4800~4200	380~630	0.08~0.15	6000~5000	500	0.07~0.1

CPDL- GENERAL PURPOSE LONG FLUTE MICRO DRILLS

CPDL 普通加长微型钻头

超微粒 MICRO GRAIN | SHANK 3.0mm | SHANK 3.175mm | SHANK 4.0mm | Long Flute | 螺旋 35 | 120°





- 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	淬火钢 Hardess 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
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

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
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

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●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
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

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
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	○	1.78	20.0	3	50
CPDL1790	○	1.79	20.0	3	50
CPDL1800	○	1.80	20.0	3	50
CPDL1810	○	1.81	20.0	3	50
CPDL1820	○	1.82	20.0	3	50
CPDL1830	○	1.83	20.0	3	50
CPDL1840	○	1.84	20.0	3	50
CPDL1850	○	1.85	20.0	3	50
CPDL1860	○	1.86	20.0	3	50
CPDL1870	○	1.87	20.0	3	50
CPDL1880	○	1.88	20.0	3	50
CPDL1890	○	1.89	20.0	3	50
CPDL1900	○	1.90	20.0	3	50
CPDL1910	○	1.91	20.0	3	50
CPDL1920	○	1.92	20.0	3	50
CPDL1930	○	1.93	20.0	3	50
CPDL1940	○	1.94	20.0	3	50
CPDL1950	○	1.95	20.0	3	50
CPDL1960	○	1.96	20.0	3	50
CPDL1970	○	1.97	20.0	3	50
CPDL1980	○	1.98	20.0	3	50
CPDL1990	○	1.99	20.0	3	50
CPDL2000	○	2.00	20.0	3	50
CPDL2010	○	2.01	25.0	3	60
CPDL2020	○	2.02	25.0	3	60
CPDL2030	○	2.03	25.0	3	60
CPDL2040	○	2.04	25.0	3	60
CPDL2050	○	2.05	25.0	3	60
CPDL2060	○	2.06	25.0	3	60
CPDL2070	○	2.07	25.0	3	60
CPDL2080	○	2.08	25.0	3	60
CPDL2090	○	2.09	25.0	3	60
CPDL2100	○	2.10	25.0	3	60
CPDL2110	○	2.11	25.0	3	60
CPDL2120	○	2.12	25.0	3	60
CPDL2130	○	2.13	25.0	3	60
CPDL2140	○	2.14	25.0	3	60
CPDL2150	○	2.15	25.0	3	60
CPDL2160	○	2.16	25.0	3	60
CPDL2170	○	2.17	25.0	3	60
CPDL2180	○	2.18	25.0	3	60
CPDL2190	○	2.19	25.0	3	60
CPDL2200	○	2.20	25.0	3	60
CPDL2210	○	2.21	25.0	3	60
CPDL2220	○	2.22	25.0	3	60
CPDL2230	○	2.23	25.0	3	60
CPDL2240	○	2.24	25.0	3	60
CPDL2250	○	2.25	25.0	3	60
CPDL2260	○	2.26	25.0	3	60
CPDL2270	○	2.27	25.0	3	60
CPDL2280	○	2.28	25.0	3	60
CPDL2290	○	2.29	25.0	3	60
CPDL2300	○	2.30	25.0	3	60
CPDL2310	○	2.31	25.0	3	60
CPDL2320	○	2.32	25.0	3	60
CPDL2330	○	2.33	25.0	3	60
CPDL2340	○	2.34	25.0	3	60
CPDL2350	○	2.35	25.0	3	60

●标准库存 ○订单生产

●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
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
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

切削参数表 Standard Drilling Conditions

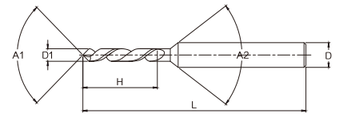
被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不锈钢 Stainless Steel			铝合金 Aluminum Alloy			铜合金 Copper Alloy			工程塑胶、树脂 Plastics Resin		
直径 Drill Dia. mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 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	10000~20000	5~20	0.0005~0.001	10000~30000	10~90	0.001~0.003	10000~20000	20~100	0.002~0.005	10000~20000	10~60	0.001~0.003
0.1-0.29	19000~13000	38~130	0.002~0.01	16000~11000	22~75	0.0014~0.007	13000~8800	13~35	0.001~0.004	10000~5000	5	0.0005~0.001	22200~16500	110~330	0.005~0.02	16000~11000	32~88	0.002~0.008	20000~15000	100~150	0.005~0.01
0.3-0.49	13000~12000	130~240	0.01~0.02	11000~9700	75~95	0.007~0.01	8800~6500	26~32	0.003~0.005	5000~4500	5~22	0.001~0.005	16500~13000	330~520	0.02~0.04	11000~11500	88~170	0.008~0.015	15000	150~300	0.01~0.02
0.5-0.99	12000~9600	240~380	0.02~0.04	9700~6400	95~128	0.01~0.02	6500~4800	32~48	0.005~0.01	4500~3200	22~32	0.005~0.01	13000~12700	520~760	0.04~0.06	11500~9600	170~380	0.015~0.04	15000~10000	150~400	0.02~0.04
1.0-1.99	9600~6400	290~380	0.03~0.06	6400~4000	128~200	0.02~0.05	3100~2400	31~72	0.01~0.03	3200~2400	32~72	0.01~0.03	12700~6400	760	0.06~0.12	9600~4800	380	0.04~0.08	10000~6000	500	0.05~0.07
2.0-3.0	6400~4200	440	0.07~0.1	4000~3200	200~260	0.05~0.08	2400~1600	48~64	0.02~0.04	2400~1800	72~90	0.03~0.05	6400~5300	760~1060	0.12~0.2	4800~4200	380~630	0.08~0.15	6000~5000	500	0.07~0.1

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	淬火钢 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
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

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
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	3	38
CDD0600	○	0.60	7.0	3	38
CDD0610	○	0.61	7.0	3	38
CDD0620	○	0.62	7.0	3	38
CDD0630	○	0.63	7.0	3	38
CDD0640	○	0.64	7.0	3	38
CDD0650	○	0.65	7.0	3	38
CDD0660	○	0.66	7.0	3	38
CDD0670	○	0.67	7.0	3	38
CDD0680	○	0.68	7.0	3	38
CDD0690	○	0.69	7.0	3	38
CDD0700	○	0.70	8.0	3	38
CDD0710	○	0.71	8.0	3	38
CDD0720	○	0.72	8.0	3	38
CDD0730	○	0.73	8.0	3	38
CDD0740	○	0.74	8.0	3	38
CDD0750	○	0.75	8.0	3	38
CDD0760	○	0.76	8.0	3	38
CDD0770	○	0.77	8.0	3	38
CDD0780	○	0.78	8.0	3	38
CDD0790	○	0.79	8.0	3	38
CDD0800	○	0.80	8.0	3	38
CDD0810	○	0.81	8.0	3	38
CDD0820	○	0.82	8.0	3	38
CDD0830	○	0.83	8.0	3	38
CDD0840	○	0.84	8.0	3	38
CDD0850	○	0.85	8.0	3	38
CDD0860	○	0.86	8.0	3	38
CDD0870	○	0.87	8.0	3	38
CDD0880	○	0.88	8.0	3	38
CDD0883	○	0.883	8.0	3	38
CDD0885	○	0.885	8.0	3	38
CDD0887	○	0.887	8.0	3	38

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
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

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
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

●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	28.00
CDD2180	○	2.18	12.0	3	38	28.00
CDD2190	○	2.19	12.0	3	38	28.00
CDD2200	○	2.20	12.0	3	38	28.00
CDD2210	○	2.21	12.0	3	38	28.00
CDD2220	○	2.22	12.0	3	38	28.00
CDD2230	○	2.23	12.0	3	38	28.00
CDD2240	○	2.24	12.0	3	38	28.00
CDD2250	○	2.25	12.0	3	38	28.00
CDD2260	○	2.26	12.0	3	38	28.00
CDD2270	○	2.27	12.0	3	38	28.00
CDD2280	○	2.28	12.0	3	38	28.00
CDD2290	○	2.29	12.0	3	38	28.00
CDD2300	○	2.30	12.0	3	38	28.00
CDD2310	○	2.31	12.0	3	38	28.00
CDD2320	○	2.32	12.0	3	38	28.00
CDD2330	○	2.33	12.0	3	38	28.00
CDD2340	○	2.34	12.0	3	38	28.00
CDD2350	○	2.35	12.0	3	38	28.00
CDD2360	○	2.36	12.0	3	38	28.00
CDD2370	○	2.37	12.0	3	38	28.00
CDD2380	○	2.38	12.0	3	38	28.00
CDD2390	○	2.39	12.0	3	38	28.00
CDD2400	○	2.40	12.0	3	38	28.00
CDD2410	○	2.41	12.0	3	38	28.00
CDD2420	○	2.42	12.0	3	38	28.00
CDD2430	○	2.43	12.0	3	38	28.00
CDD2440	○	2.44	12.0	3	38	28.00
CDD2450	○	2.45	12.0	3	38	28.00
CDD2460	○	2.46	12.0	3	38	28.00
CDD2470	○	2.47	12.0	3	38	28.00
CDD2480	○	2.48	12.0	3	38	28.00
CDD2490	○	2.49	12.0	3	38	28.00
CDD2500	○	2.50	12.0	3	38	28.00
CDD2510	○	2.51	12.0	3	38	28.00
CDD2520	○	2.52	12.0	3	38	28.00
CDD2530	○	2.53	12.0	3	38	28.00
CDD2540	○	2.54	12.0	3	38	28.00
CDD2550	○	2.55	12.0	3	38	28.00
CDD2560	○	2.56	12.0	3	38	28.00
CDD2570	○	2.57	12.0	3	38	28.00
CDD2580	○	2.58	12.0	3	38	28.00
CDD2590	○	2.59	12.0	3	38	28.00

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
CDD2600	○	2.60	12.0	3	38	28.00
CDD2610	○	2.61	12.0	3	38	28.00
CDD2620	○	2.62	12.0	3	38	28.00
CDD2630	○	2.63	12.0	3	38	28.00
CDD2640	○	2.64	12.0	3	38	28.00
CDD2650	○	2.65	12.0	3	38	28.00
CDD2660	○	2.66	12.0	3	38	28.00
CDD2670	○	2.67	12.0	3	38	28.00
CDD2680	○	2.68	12.0	3	38	28.00
CDD2690	○	2.69	12.0	3	38	28.00
CDD2700	○	2.70	12.0	3	38	28.00
CDD2710	○	2.71	12.0	3	38	28.00
CDD2720	○	2.72	12.0	3	38	28.00
CDD2730	○	2.73	12.0	3	38	28.00
CDD2740	○	2.74	12.0	3	38	28.00
CDD2750	○	2.75	12.0	3	38	28.00
CDD2760	○	2.76	12.0	3	38	28.00
CDD2770	○	2.77	12.0	3	38	28.00
CDD2780	○	2.78	12.0	3	38	28.00
CDD2785	○	2.785	12.0	3	38	28.00
CDD2790	○	2.79	12.0	3	38	28.00
CDD2800	○	2.80	12.0	3	38	28.00
CDD2810	○	2.81	12.0	3	38	28.00
CDD2820	○	2.82	12.0	3	38	28.00
CDD2830	○	2.83	12.0	3	38	28.00
CDD2840	○	2.84	12.0	3	38	28.00
CDD2850	○	2.85	12.0	3	38	28.00
CDD2860	○	2.86	12.0	3	38	28.00
CDD2870	○	2.87	12.0	3	38	28.00
CDD2880	○	2.88	12.0	3	38	28.00
CDD2890	○	2.89	12.0	3	38	28.00
CDD2900	○	2.90	12.0	3	38	28.00
CDD2910	○	2.91	12.0	3	38	28.00
CDD2920	○	2.92	12.0	3	38	28.00
CDD2930	○	2.93	12.0	3	38	28.00
CDD2940	○	2.94	12.0	3	38	28.00
CDD2950	○	2.95	12.0	3	38	28.00
CDD2960	○	2.96	12.0	3	38	28.00
CDD2970	○	2.97	12.0	3	38	28.00
CDD2980	○	2.98	12.0	3	38	28.00
CDD2990	○	2.99	12.0	3	38	28.00
CDD3000	○	3.00	12.0	3	38	28.00

●标准库存 ○订单生产

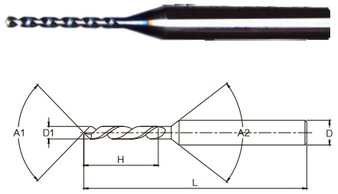
切削参数表 Standard Drilling Conditions

被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不锈钢 Stainless Steel			铝合金 Aluminum Alloy			铜合金 Copper Alloy			工程塑胶、树脂 Plastics Resin		
直径 Drill Dia. mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 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	10000~20000	5~20	0.0005~0.001	10000~30000	10~90	0.001~0.003	10000~20000	20~100	0.002~0.005	10000~20000	10~60	0.001~0.003
0.1-0.29	19000~13000	38~130	0.002~0.01	16000~11000	22~75	0.0014~0.007	13000~8800	13~35	0.001~0.004	10000~5000	5	0.0005~0.001	22200~16500	110~330	0.005~0.02	16000~11000	32~88	0.002~0.008	20000~15000	100~150	0.005~0.01
0.3-0.49	13000~12000	130~240	0.01~0.02	11000~9700	75~95	0.007~0.01	8800~6500	26~32	0.003~0.005	5000~4500	5~22	0.001~0.005	16500~13000	330~520	0.02~0.04	11000~11500	88~170	0.008~0.015	15000	150~300	0.01~0.02
0.5-0.99	12000~9600	240~380	0.02~0.04	9700~6400	95~128	0.01~0.02	6500~4800	32~48	0.005~0.01	4500~3200	22~32	0.005~0.01	13000~12700	520~760	0.04~0.06	11500~9600	170~380	0.015~0.04	15000~10000	150~400	0.02~0.04
1.0-1.99	9600~6400	290~380	0.03~0.06	6400~4000	128~200	0.02~0.05	3100~2400	31~72	0.01~0.03	3200~2400	32~72	0.01~0.03	12700~6400	760	0.06~0.12	9600~4800	380	0.04~0.08	10000~6000	500	0.05~0.07
2.0-3.0	6400~4200	440	0.07~0.1	4000~3200	200~260	0.05~0.08	2400~1600	48~64	0.02~0.04	2400~1800	72~90	0.03~0.05	6400~5300	760~1060	0.12~0.2	4800~4200	380~630	0.08~0.15	6000~5000	500	0.07~0.1

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 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
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

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
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

●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
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

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
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	3	50
CDDL1870	○	1.87	20.0	3	50
CDDL1880	○	1.88	20.0	3	50
CDDL1890	○	1.89	20.0	3	50
CDDL1900	○	1.90	20.0	3	50
CDDL1910	○	1.91	20.0	3	50
CDDL1920	○	1.92	20.0	3	50
CDDL1930	○	1.93	20.0	3	50
CDDL1940	○	1.94	20.0	3	50
CDDL1950	○	1.95	20.0	3	50
CDDL1960	○	1.96	20.0	3	50
CDDL1970	○	1.97	20.0	3	50
CDDL1980	○	1.98	20.0	3	50
CDDL1990	○	1.99	20.0	3	50
CDDL2000	○	2.00	20.0	3	50
CDDL2010	○	2.01	25.0	3	60
CDDL2020	○	2.02	25.0	3	60
CDDL2030	○	2.03	25.0	3	60
CDDL2040	○	2.04	25.0	3	60
CDDL2050	○	2.05	25.0	3	60
CDDL2060	○	2.06	25.0	3	60
CDDL2070	○	2.07	25.0	3	60
CDDL2080	○	2.08	25.0	3	60
CDDL2090	○	2.09	25.0	3	60
CDDL2100	○	2.10	25.0	3	60
CDDL2110	○	2.11	25.0	3	60
CDDL2120	○	2.12	25.0	3	60
CDDL2130	○	2.13	25.0	3	60
CDDL2140	○	2.14	25.0	3	60
CDDL2150	○	2.15	25.0	3	60
CDDL2160	○	2.16	25.0	3	60
CDDL2170	○	2.17	25.0	3	60
CDDL2180	○	2.18	25.0	3	60
CDDL2190	○	2.19	25.0	3	60
CDDL2200	○	2.20	25.0	3	60
CDDL2210	○	2.21	25.0	3	60
CDDL2220	○	2.22	25.0	3	60
CDDL2230	○	2.23	25.0	3	60
CDDL2240	○	2.24	25.0	3	60
CDDL2250	○	2.25	25.0	3	60
CDDL2260	○	2.26	25.0	3	60
CDDL2270	○	2.27	25.0	3	60
CDDL2280	○	2.28	25.0	3	60
CDDL2290	○	2.29	25.0	3	60
CDDL2300	○	2.30	25.0	3	60
CDDL2310	○	2.31	25.0	3	60
CDDL2320	○	2.32	25.0	3	60
CDDL2330	○	2.33	25.0	3	60
CDDL2340	○	2.34	25.0	3	60
CDDL2350	○	2.35	25.0	3	60

●标准库存 ○订单生产

●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
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

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
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

●标准库存 ○订单生产

切削参数表Standard Drilling Conditions

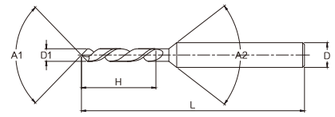
被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不锈钢 Stainless Steel			铝合金 Aluminum Alloy			铜合金 Copper Alloy			工程塑胶、树脂 Plastics Resin		
直径 Drill Dia. mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 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	10000~ 20000	5~ 20	0.0005~ 0.001	10000~ 30000	10~ 90	0.001~ 0.003	10000~ 20000	20~ 100	0.002~ 0.005	10000~ 20000	10~ 60	0.001~ 0.003
0.1-0.29	19000~ 13000	38~ 130	0.002~ 0.01	16000~ 11000	22~ 75	0.0014~ 0.007	13000~ 8800	13~ 35	0.001~ 0.004	10000~ 5000	5	0.0005~ 0.001	22200~ 16500	110~ 330	0.005~ 0.02	16000~ 11000	32~ 88	0.002~ 0.008	20000~ 15000	100~ 150	0.005~ 0.01
0.3-0.49	13000~ 12000	130~ 240	0.01~ 0.02	11000~ 9700	75~ 95	0.007~ 0.01	8800~ 6500	26~ 32	0.003~ 0.005	5000~ 4500	5~ 22	0.001~ 0.005	16500~ 13000	330~ 520	0.02~ 0.04	11000~ 11500	88~ 170	0.008~ 0.015	15000	150~ 300	0.01~ 0.02
0.5-0.99	12000~ 9600	240~ 380	0.02~ 0.04	9700~ 6400	95~ 128	0.01~ 0.02	6500~ 4800	32~ 48	0.005~ 0.01	4500~ 3200	22~ 32	0.005~ 0.01	13000~ 12700	520~ 760	0.04~ 0.06	11500~ 9600	170~ 380	0.015~ 0.04	15000~ 10000	150~ 400	0.02~ 0.04
1.0-1.99	9600~ 6400	290~ 380	0.03~ 0.06	6400~ 4000	128~ 200	0.02~ 0.05	3100~ 2400	31~ 72	0.01~ 0.03	3200~ 2400	32~ 72	0.01~ 0.03	12700~ 6400	760	0.06~ 0.12	9600~ 4800	380	0.04~ 0.08	10000~ 6000	500	0.05~ 0.07
2.0-3.0	6400~ 4200	440	0.07~ 0.1	4000~ 3200	200~ 260	0.05~ 0.08	2400~ 1600	48~ 64	0.02~ 0.04	2400~ 1800	72~ 90	0.03~ 0.05	6400~ 5300	760~ 1060	0.12~ 0.2	4800~ 4200	380~ 630	0.08~ 0.15	6000~ 5000	500	0.07~ 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	淬火钢 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
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

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
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	38
CHD0640	○	0.64	7.0	3	38
CHD0650	○	0.65	7.0	3	38
CHD0660	○	0.66	7.0	3	38
CHD0670	○	0.67	7.0	3	38
CHD0680	○	0.68	7.0	3	38
CHD0690	○	0.69	7.0	3	38
CHD0700	○	0.70	8.0	3	38
CHD0710	○	0.71	8.0	3	38
CHD0720	○	0.72	8.0	3	38
CHD0730	○	0.73	8.0	3	38
CHD0740	○	0.74	8.0	3	38
CHD0750	○	0.75	8.0	3	38
CHD0760	○	0.76	8.0	3	38
CHD0770	○	0.77	8.0	3	38
CHD0780	○	0.78	8.0	3	38
CHD0790	○	0.79	8.0	3	38
CHD0800	○	0.80	8.0	3	38
CHD0810	○	0.81	8.0	3	38
CHD0820	○	0.82	8.0	3	38
CHD0830	○	0.83	8.0	3	38
CHD0840	○	0.84	8.0	3	38
CHD0850	○	0.85	8.0	3	38
CHD0860	○	0.86	8.0	3	38
CHD0870	○	0.87	8.0	3	38
CHD0880	○	0.88	8.0	3	38
CHD0883	○	0.883	8.0	3	38
CHD0885	○	0.885	8.0	3	38
CHD0887	○	0.887	8.0	3	38

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
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
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
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

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
CHD2600	○	2.60	12.0	3	38
CHD2610	○	2.61	12.0	3	38
CHD2620	○	2.62	12.0	3	38
CHD2630	○	2.63	12.0	3	38
CHD2640	○	2.64	12.0	3	38
CHD2650	○	2.65	12.0	3	38
CHD2660	○	2.66	12.0	3	38
CHD2670	○	2.67	12.0	3	38
CHD2680	○	2.68	12.0	3	38
CHD2690	○	2.69	12.0	3	38
CHD2700	○	2.70	12.0	3	38
CHD2710	○	2.71	12.0	3	38
CHD2720	○	2.72	12.0	3	38
CHD2730	○	2.73	12.0	3	38
CHD2740	○	2.74	12.0	3	38
CHD2750	○	2.75	12.0	3	38
CHD2760	○	2.76	12.0	3	38
CHD2770	○	2.77	12.0	3	38
CHD2780	○	2.78	12.0	3	38
CHD2785	○	2.785	12.0	3	38
CHD2790	○	2.79	12.0	3	38
CHD2800	○	2.80	12.0	3	38
CHD2810	○	2.81	12.0	3	38
CHD2820	○	2.82	12.0	3	38
CHD2830	○	2.83	12.0	3	38
CHD2840	○	2.84	12.0	3	38
CHD2850	○	2.85	12.0	3	38
CHD2860	○	2.86	12.0	3	38
CHD2870	○	2.87	12.0	3	38
CHD2880	○	2.88	12.0	3	38
CHD2890	○	2.89	12.0	3	38
CHD2900	○	2.90	12.0	3	38
CHD2910	○	2.91	12.0	3	38
CHD2920	○	2.92	12.0	3	38
CHD2930	○	2.93	12.0	3	38
CHD2940	○	2.94	12.0	3	38
CHD2950	○	2.95	12.0	3	38
CHD2960	○	2.96	12.0	3	38
CHD2970	○	2.97	12.0	3	38
CHD2980	○	2.98	12.0	3	38
CHD2990	○	2.99	12.0	3	38
CHD3000	○	3.00	12.0	3	38

●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

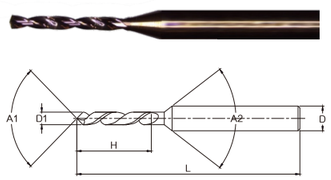
被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不锈钢 Stainless Steel			耐热合金 Heat-resisting Alloy			钴镍合金 Cobalt Nickel Alloy			钛合金 Titanium Alloy		
直径 Drill Dia. mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 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	10000~15000	10~22	0.001~0.0015	4300	1.29~3	0.0003~0.0007	9500	2.85~7.6	0.0003~0.0008	7400	2.22~5.18	0.0003~0.0007
0.1-0.29	25000~20000	50~200	0.002~0.01	20000~15000	30~100	0.0015~0.007	17000~13000	17~52	0.001~0.004	15000~7500	7~7.5	0.0005~0.001	3900~3600	3.9~7.2	0.001~0.002	8500~7900	12.8~23.7	0.0015~0.003	6000~6200	6.6~12.4	0.001~0.002
0.3-0.49	20000~18000	200~720	0.01~0.04	15000	100~150	0.007~0.01	13000~10000	40~50	0.003~0.005	10000~8000	20~80	0.002~0.01	4900~4400	14.7~26.4	0.003~0.006	7600~6800	30.4~68	0.004~0.01	5900~5300	17.7~31.8	0.003~0.006
0.5-0.99	18000~15000	360~600	0.02~0.04	15000~9500	150~190	0.01~0.02	10000~7000	50~70	0.005~0.01	8000~6000	120	0.015~0.02	3100~2900	21.7~29	0.007~0.01	6800~6400	102~128	0.015~0.02	5300~5000	37.1~50	0.007~0.01
1.0-1.99	15000~9500	600	0.03~0.06	9500~6000	190~300	0.02~0.05	7000~4000	70~120	0.01~0.03	6000~4000	120~160	0.02~0.04	2000~1500	40~50	0.02~0.03	4300~3200	129~160	0.03~0.05	3400~2500	68~75	0.02~0.03
2.0-3.0	9500~6300	650	0.07~0.1	6000~4800	300~380	0.05~0.08	4000~3000	140	0.02~0.04	4000~3700	120~185	0.03~0.05	1200	48	0.04	2700	189	0.07	2000	80	0.04

CHDL- MULTI-FUNCTION LONG FLUTE MICRO DRILLS

CHDL 多功能加长微型钻头

超微粒 MICRO GRAIN | 1 SHANK 3.0mm | 1 SHANK 3.175mm | 1 SHANK 4.0mm | LONG Flute | 螺旋 25° | 118° 135° | TiAlN Coating

- 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	淬火钢 Hardess 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
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

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
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

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
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

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
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	○	1.81	20.0	3	50
CHDL1820	○	1.82	20.0	3	50
CHDL1830	○	1.83	20.0	3	50
CHDL1840	○	1.84	20.0	3	50
CHDL1850	○	1.85	20.0	3	50
CHDL1860	○	1.86	20.0	3	50
CHDL1870	○	1.87	20.0	3	50
CHDL1880	○	1.88	20.0	3	50
CHDL1890	○	1.89	20.0	3	50
CHDL1900	○	1.90	20.0	3	50
CHDL1910	○	1.91	20.0	3	50
CHDL1920	○	1.92	20.0	3	50
CHDL1930	○	1.93	20.0	3	50
CHDL1940	○	1.94	20.0	3	50
CHDL1950	○	1.95	20.0	3	50
CHDL1960	○	1.96	20.0	3	50
CHDL1970	○	1.97	20.0	3	50
CHDL1980	○	1.98	20.0	3	50
CHDL1990	○	1.99	20.0	3	50
CHDL2000	○	2.00	20.0	3	50
CHDL2010	○	2.01	25.0	3	60
CHDL2020	○	2.02	25.0	3	60
CHDL2030	○	2.03	25.0	3	60
CHDL2040	○	2.04	25.0	3	60
CHDL2050	○	2.05	25.0	3	60
CHDL2060	○	2.06	25.0	3	60
CHDL2070	○	2.07	25.0	3	60
CHDL2080	○	2.08	25.0	3	60
CHDL2090	○	2.09	25.0	3	60
CHDL2100	○	2.10	25.0	3	60
CHDL2110	○	2.11	25.0	3	60
CHDL2120	○	2.12	25.0	3	60
CHDL2130	○	2.13	25.0	3	60
CHDL2140	○	2.14	25.0	3	60
CHDL2150	○	2.15	25.0	3	60
CHDL2160	○	2.16	25.0	3	60
CHDL2170	○	2.17	25.0	3	60
CHDL2180	○	2.18	25.0	3	60
CHDL2190	○	2.19	25.0	3	60
CHDL2200	○	2.20	25.0	3	60
CHDL2210	○	2.21	25.0	3	60
CHDL2220	○	2.22	25.0	3	60
CHDL2230	○	2.23	25.0	3	60
CHDL2240	○	2.24	25.0	3	60
CHDL2250	○	2.25	25.0	3	60
CHDL2260	○	2.26	25.0	3	60
CHDL2270	○	2.27	25.0	3	60
CHDL2280	○	2.28	25.0	3	60
CHDL2290	○	2.29	25.0	3	60
CHDL2300	○	2.30	25.0	3	60
CHDL2310	○	2.31	25.0	3	60
CHDL2320	○	2.32	25.0	3	60
CHDL2330	○	2.33	25.0	3	60
CHDL2340	○	2.34	25.0	3	60
CHDL2350	○	2.35	25.0	3	60

●标准库存 ○订单生产

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
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

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
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

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●标准库存 ○订单生产

切削参数表 Standard Drilling Conditions

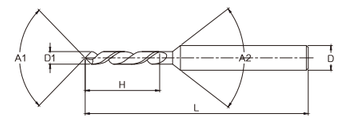
被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不锈钢 Stainless Steel			耐热合金 Heat-resisting Alloy			钴镍合金 Cobalt Nickel Alloy			钛合金 Titanium Alloy		
直径 Drill Dia. mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min⁻¹	进给速度 Feed mm/min	进给量 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	10000~15000	10~22	0.001~0.0015	4300	1.29~3	0.0003~0.0007	9500	2.85~7.6	0.0003~0.0008	7400	2.22~5.18	0.0003~0.0007
0.1-0.29	25000~20000	50~200	0.002~0.01	20000~15000	30~100	0.0015~0.007	17000~13000	17~52	0.001~0.004	15000~7500	7~7.5	0.0005~0.001	3900~3600	3.9~7.2	0.001~0.002	8500~7900	12.8~23.7	0.0015~0.003	6000~6200	6.6~12.4	0.001~0.002
0.3-0.49	20000~18000	200~720	0.01~0.04	15000	100~150	0.007~0.01	13000~10000	40~50	0.003~0.005	10000~8000	20~80	0.002~0.01	4900~4400	14.7~26.4	0.003~0.006	7600~6800	30.4~68	0.004~0.01	5900~5300	17.7~31.8	0.003~0.006
0.5-0.99	18000~15000	360~600	0.02~0.04	15000~9500	150~190	0.01~0.02	10000~7000	50~70	0.005~0.01	8000~6000	120	0.015~0.02	3100~2900	21.7~29	0.007~0.01	6800~6400	102~128	0.015~0.02	5300~5000	37.1~50	0.007~0.01
1.0-1.99	15000~9500	600	0.03~0.06	9500~6000	190~300	0.02~0.05	7000~4000	70~120	0.01~0.03	6000~4000	120~160	0.02~0.04	2000~1500	40~50	0.02~0.03	4300~3200	129~160	0.03~0.05	3400~2500	68~75	0.02~0.03
2.0-3.0	9500~6300	650	0.07~0.1	6000~4800	300~380	0.05~0.08	4000~3000	140	0.02~0.04	4000~3700	120~185	0.03~0.05	1200	48	0.04	2700	189	0.07	2000	80	0.04

CXD- LEFT ROTATION MICRO DRILLS

CXD 左旋微型钻头







- 直径范围 Tool dia：D0.15-D3.18㎜
- 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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
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

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
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
CXD0710	○	0.71	5.0	3.2	38
CXD0715	○	0.715	5.0	3.2	38
CXD0720	○	0.720	5.0	3.2	38
CXD0725	○	0.725	5.0	3.2	38
CXD0730	○	0.730	5.0	3.2	38
CXD0740	○	0.740	5.0	3.2	38
CXD0750	○	0.75	5.0	3.2	38
CXD0760	○	0.76	5.0	3.2	38
CXD0770	○	0.77	5.0	3.2	38
CXD0780	○	0.78	5.0	3.2	38
CXD0790	○	0.79	5.0	3.2	38
CXD0800	○	0.80	5.0	3.2	38
CXD0810	○	0.81	5.0	3.2	38
CXD0820	○	0.82	5.0	3.2	38
CXD0830	○	0.83	5.0	3.2	38
CXD0840	○	0.84	5.0	3.2	38
CXD0850	○	0.85	5.0	3.2	38
CXD0860	○	0.86	5.0	3.2	38
CXD0870	○	0.87	5.0	3.2	38
CXD0873	○	0.873	5.0	3.2	38
CXD0875	○	0.875	5.0	3.2	38
CXD0880	○	0.880	5.0	3.2	38
CXD0883	○	0.883	5.0	3.2	38
CXD0885	○	0.885	5.0	3.2	38
CXD0887	○	0.887	5.0	3.2	38
CXD0888	○	0.887	5.0	3.2	38
CXD0890	○	0.890	5.0	3.2	38
CXD0892	○	0.892	5.0	3.2	38

●标准库存 ○订单生产

●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
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

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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
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

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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
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	12.0	3.2	38

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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
CXD2640	○	2.64	12.0	3.2	38
CXD2650	○	2.65	12.0	3.2	38
CXD2660	○	2.66	12.0	3.2	38
CXD2670	○	2.67	12.0	3.2	38
CXD2680	○	2.68	12.0	3.2	38
CXD2690	○	2.69	12.0	3.2	38
CXD2700	○	2.70	12.0	3.2	38
CXD2710	○	2.71	12.0	3.2	38
CXD2720	○	2.72	12.0	3.2	38
CXD2730	○	2.73	12.0	3.2	38
CXD2740	○	2.74	12.0	3.2	38
CXD2750	○	2.75	12.0	3.2	38
CXD2760	○	2.76	12.0	3.2	38
CXD2770	○	2.77	12.0	3.2	38
CXD2780	○	2.78	12.0	3.2	38
CXD2790	○	2.79	12.0	3.2	38
CXD2800	○	2.80	12.0	3.2.	38
CXD2810	○	2.81	12.0	3.2	38
CXD2820	○	2.82	12.0	3.2	38
CXD2830	○	2.83	12.0	3.2	38
CXD2840	○	2.84	12.0	3.2	38
CXD2850	○	2.85	12.0	3.2	38
CXD2860	○	2.86	12.0	3.2	38
CXD2870	○	2.87	12.0	3.2	38
CXD2880	○	2.88	12.0	3.2	38
CXD2890	○	2.89	12.0	3.2	38
CXD2900	○	2.90	12.0	3.2	38
CXD2910	○	2.91	12.0	3.2	38
CXD2920	○	2.92	12.0	3.2	38
CXD2930	○	2.93	12.0	3.2	38
CXD2940	○	2.94	12.0	3.2	38
CXD2950	○	2.95	12.0	3.2	38
CXD2960	○	2.96	12.0	3.2	38
CXD2970	○	2.97	12.0	3.2	38
CXD2980	○	2.98	12.0	3.2	38
CXD2990	○	2.99	12.0	3.2	38
CXD3000	○	3.00	12.0	3.2	38
CXD3010	○	3.01	12.0	3.2	38
CXD3020	○	3.02	12.0	3.2	38
CXD3030	○	3.03	12.0	3.2	38
CXD3040	○	3.04	12.0	3.2	38
CXD3050	○	3.05	12.0	3.2	38
CXD3060	○	3.06	12.0	3.2	38
CXD3070	○	3.07	12.0	3.2	38
CXD3080	○	3.08	12.0	3.2	38
CXD3090	○	3.09	12.0	3.2	38
CXD3100	○	3.10	12.0	3.2	38
CXD3110	○	3.11	12.0	3.2	38
CXD3120	○	3.12	12.0	3.2	38
CXD3130	○	3.13	12.0	3.2	38
CXD3140	○	3.14	12.0	3.2	38
CXD3150	○	3.15	12.0	3.2	38
CXD3160	○	3.16	12.0	3.2	38
CXD3170	○	3.17	12.0	3.2	38
CXD3180	○	3.18	12.0	3.2	38

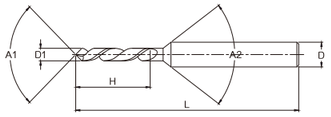
●标准库存 ○订单生产

CHXD- COATING LEFT ROTATION MICRO DRILLS

CHXD 涂层左旋微型钻头

超微粒 MICRO GRAIN | SHANK 3.0mm | SHANK 3.175mm | Regular Flute | 螺旋 25° | 118° | TICN Coating





- 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 Hardess 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
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

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
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

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●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
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

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
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
CHXD1620	○	1.62	8.0	3.2	38
CHXD1630	○	1.63	8.0	3.2	38
CHXD1640	○	1.64	8.0	3.2	38
CHXD1650	○	1.65	8.0	3.2	38
CHXD1660	○	1.66	8.0	3.2	38
CHXD1670	○	1.67	8.0	3.2	38
CHXD1680	○	1.68	8.0	3.2	38
CHXD1690	○	1.69	8.0	3.2	38
CHXD1700	○	1.70	8.0	3.2	38
CHXD1710	○	1.71	8.0	3.2	38
CHXD1720	○	1.72	8.0	3.2	38
CHXD1730	○	1.73	8.0	3.2	38
CHXD1740	○	1.74	8.0	3.2	38
CHXD1750	○	1.75	8.0	3.2	38
CHXD1760	○	1.76	8.0	3.2	38
CHXD1770	○	1.77	8.0	3.2	38
CHXD1780	○	1.78	8.0	3.2	38
CHXD1790	○	1.79	8.0	3.2	38
CHXD1800	○	1.80	8.0	3.2	38
CHXD1810	○	1.81	8.0	3.2	38
CHXD1820	○	1.82	8.0	3.2	38
CHXD1830	○	1.83	8.0	3.2	38
CHXD1835	○	1.835	8.0	3.2	38
CHXD1840	○	1.840	8.0	3.2	38
CHXD1845	○	1.845	8.0	3.2	38
CHXD1850	○	1.85	8.0	3.2	38
CHXD1860	○	1.86	8.0	3.2	38
CHXD1870	○	1.87	8.0	3.2	38
CHXD1880	○	1.88	8.0	3.2	38
CHXD1890	○	1.89	8.0	3.2	38
CHXD1900	○	1.90	10.0	3.2	38
CHXD1910	○	1.91	10.0	3.2	38
CHXD1920	○	1.92	10.0	3.2	38
CHXD1930	○	1.93	10.0	3.2	38
CHXD1940	○	1.94	10.0	3.2	38
CHXD1950	○	1.95	10.0	3.2	38
CHXD1960	○	1.96	10.0	3.2	38
CHXD1970	○	1.97	10.0	3.2	38
CHXD1980	○	1.98	10.0	3.2	38
CHXD1990	○	1.99	10.0	3.2	38
CHXD2000	○	2.00	10.0	3.2	38
CHXD2010	○	2.01	10.0	3.2	38
CHXD2020	○	2.02	10.0	3.2	38
CHXD2030	○	2.03	10.0	3.2	38
CHXD2040	○	2.04	10.0	3.2	38
CHXD2050	○	2.05	10.0	3.2	38
CHXD2060	○	2.06	10.0	3.2	38
CHXD2070	○	2.07	10.0	3.2	38

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●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
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

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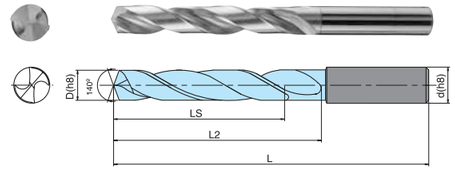
单位:(mm)

型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L
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 Hardess 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
CCD3030	●	3.0	20	62	4	14
CCD3031	●	3.1	20	62	4	14
CCD3032	●	3.2	20	62	4	14
CCD3033	●	3.3	20	62	4	14
CCD3034	●	3.1	20	62	4	14
CCD3035	●	3.5	20	62	4	14
CCD3036	●	3.6	20	62	4	14
CCD3037	●	3.7	20	62	4	14
CCD3038	●	3.8	24	62	4	17
CCD3039	●	3.9	24	62	4	17
CCD3040	●	4.0	24	62	4	17
CCD3041	●	4.1	24	66	6	17
CCD3042	●	4.2	24	66	6	17
CCD3043	●	4.3	24	66	6	17
CCD3044	●	4.4	24	66	6	17
CCD3045	●	4.5	24	66	6	17
CCD3046	●	4.6	24	66	6	17
CCD3047	●	4.7	24	66	6	17
CCD3048	●	4.8	28	66	6	20
CCD3049	●	4.9	28	66	6	20
CCD3050	●	5.0	28	66	6	20
CCD3051	●	5.1	28	66	6	20
CCD3052	●	5.2	28	66	6	20
CCD3053	●	5.3	28	66	6	20
CCD3054	●	5.4	28	66	6	20
CCD3055	●	5.5	28	66	6	20
CCD3056	●	5.6	28	66	6	20
CCD3057	●	5.7	28	66	6	20
CCD3058	●	5.8	28	66	6	20
CCD3059	●	5.9	28	66	6	20
CCD3060	●	6.0	28	66	6	20
CCD3061	●	6.1	34	79	8	24
CCD3062	●	6.2	34	79	8	24
CCD3063	●	6.3	34	79	8	24
CCD3064	●	6.4	34	79	8	24
CCD3065	●	6.5	34	79	8	24
CCD3066	●	6.6	34	79	8	24
CCD3067	●	6.7	34	79	8	24
CCD3068	●	6.8	34	79	8	24
CCD3069	●	6.9	34	79	8	24
CCD3070	●	7.0	34	79	8	24
CCD3071	●	7.1	41	79	8	29
CCD3072	●	7.2	41	79	8	29
CCD3073	●	7.3	41	79	8	29
CCD3074	●	7.4	41	79	8	29
CCD3075	●	7.5	41	79	8	29
CCD3076	●	7.6	41	79	8	29
CCD3077	●	7.7	41	79	8	29
CCD3078	●	7.8	41	79	8	29
CCD3079	●	7.9	41	79	8	29

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
CCD3080	●	8.0	41	79	8	29
CCD3081	●	8.1	47	89	10	35
CCD3082	●	8.2	47	89	10	35
CCD3083	●	8.3	47	89	10	35
CCD3084	●	8.4	47	89	10	35
CCD3085	●	8.5	47	89	10	35
CCD3086	●	8.6	47	89	10	35
CCD3087	●	8.7	47	89	10	35
CCD3088	●	8.8	47	89	10	35
CCD3089	●	8.9	47	89	10	35
CCD3090	●	9.0	47	89	10	35
CCD3091	●	9.1	47	89	10	35
CCD3092	●	9.2	47	89	10	35
CCD3093	●	9.3	47	89	10	35
CCD3094	●	9.4	47	89	10	35
CCD3095	●	9.5	47	89	10	35
CCD3096	●	9.6	47	89	10	35
CCD3097	●	9.7	47	89	10	35
CCD3098	●	9.8	47	89	10	35
CCD3099	●	9.9	47	89	10	35
CCD3100	●	10.0	47	89	10	35
CCD3101	●	10.1	55	102	12	40
CCD3102	●	10.2	55	102	12	40
CCD3103	●	10.3	55	102	12	40
CCD3104	●	10.4	55	102	12	40
CCD3105	●	10.5	55	102	12	40
CCD3106	●	10.6	55	102	12	40
CCD3107	●	10.7	55	102	12	40
CCD3108	●	10.8	55	102	12	40
CCD3109	●	10.9	55	102	12	40
CCD3110	●	11.0	55	102	12	40
CCD3111	●	11.1	55	102	12	40
CCD3112	●	11.2	55	102	12	40
CCD3113	●	11.3	55	102	12	40
CCD3114	●	11.4	55	102	12	40
CCD3115	●	11.5	55	102	12	40
CCD3116	●	11.6	55	102	12	40
CCD3117	●	11.7	55	102	12	40
CCD3118	●	11.8	55	102	12	40
CCD3119	●	11.9	55	102	12	40
CCD3120	●	12.0	55	102	12	40
CCD3121	●	12.1	60	107	14	43
CCD3122	●	12.2	60	107	14	43
CCD3123	●	12.3	60	107	14	43
CCD3124	●	12.4	60	107	14	43
CCD3125	●	12.5	60	107	14	43
CCD3126	●	12.6	60	107	14	43
CCD3127	●	12.7	60	107	14	43
CCD3128	●	12.8	60	107	14	43
CCD3129	●	12.9	60	107	14	43

●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）

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
CCD3130	●	13.0	60	107	14	43
CCD3131	●	13.1	60	107	14	43
CCD3132	●	13.2	60	107	14	43
CCD3133	●	13.3	60	107	14	43
CCD3134	●	13.4	60	107	14	43
CCD3135	●	13.5	60	107	14	43
CCD3136	●	13.6	60	107	14	43
CCD3137	●	13.7	60	107	14	43
CCD3138	●	13.8	60	107	14	43
CCD3139	●	13.9	60	107	14	43
CCD3140	●	14.0	60	107	14	43
CCD3141	●	14.1	65	115	16	45
CCD3142	●	14.2	65	115	16	45
CCD3143	●	14.3	65	115	16	45
CCD3144	●	14.4	65	115	16	45
CCD3145	●	14.5	65	115	16	45
CCD3146	●	14.6	65	115	16	45
CCD3147	●	14.7	65	115	16	45
CCD3148	●	14.8	65	115	16	45
CCD3149	●	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
CCD3150	●	15.0	65	115	16	45
CCD3151	●	15.1	65	115	16	45
CCD3152	●	15.2	65	115	16	45
CCD3153	●	15.3	65	115	16	45
CCD3154	●	15.4	65	115	16	45
CCD3155	●	15.5	65	115	16	45
CCD3156	●	15.6	65	115	16	45
CCD3157	●	15.7	65	115	16	45
CCD3158	●	15.8	65	115	16	45
CCD3159	●	15.9	65	115	16	45
CCD3160	●	16.0	65	115	16	45
CCD3165	●	16.5	73	123	18	51
CCD3170	●	17.0	73	123	18	51
CCD3175	●	17.5	73	123	18	51
CCD3180	●	18.0	73	123	18	51
CCD3185	●	18.5	79	131	20	55
CCD3190	●	19.0	79	131	20	55
CCD3195	●	19.5	79	131	20	55
CCD3200	●	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 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	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. 机器转数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。

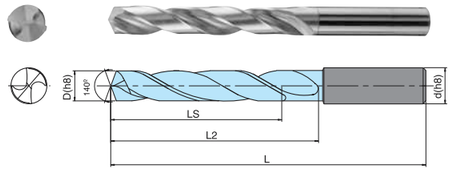
1. The indicated speeds and feeds are for drilling with water-soluble oil.
2. Suitable cutting fluid is water-soluble high density oil (less than 20 times dilution).
3. When using non-water-soluble oil or water-soluble oil (over 20 times dilution),reduce cutting speed by 30%.
4. These conditions are 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）

超微粒 MICRO GRAIN　螺旋 30°　140°　TiAlN Coating

- 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 Hardess 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
CCD5030	●	3.0	28	66	4	23
CCD5031	●	3.1	28	66	4	23
CCD5032	●	3.2	28	66	4	23
CCD5033	●	3.3	28	66	4	23
CCD5034	●	3.1	28	66	4	23
CCD5035	●	3.5	28	66	4	23
CCD5036	●	3.6	28	66	4	23
CCD5037	●	3.7	28	66	4	23
CCD5038	●	3.8	36	66	4	29
CCD5039	●	3.9	36	66	4	29
CCD5040	●	4.0	36	66	4	29
CCD5041	●	4.1	36	74	6	29
CCD5042	●	4.2	36	74	6	29
CCD5043	●	4.3	36	74	6	29
CCD5044	●	4.4	36	74	6	29
CCD5045	●	4.5	36	74	6	29
CCD5046	●	4.6	36	74	6	29
CCD5047	●	4.7	36	74	6	29
CCD5048	●	4.8	44	82	6	35
CCD5049	●	4.9	44	82	6	35
CCD5050	●	5.0	44	82	6	35
CCD5051	●	5.1	44	82	6	35
CCD5052	●	5.2	44	82	6	35
CCD5053	●	5.3	44	82	6	35
CCD5054	●	5.4	44	82	6	35
CCD5055	●	5.5	44	82	6	35
CCD5056	●	5.6	44	82	6	35
CCD5057	●	5.7	44	82	6	35
CCD5058	●	5.8	44	82	6	35
CCD5059	●	5.9	44	82	6	35
CCD5060	●	6.0	44	82	6	35
CCD5061	●	6.1	53	91	8	43
CCD5062	●	6.2	53	91	8	43
CCD5063	●	6.3	53	91	8	43
CCD5064	●	6.4	53	91	8	43
CCD5065	●	6.5	53	91	8	43
CCD5066	●	6.6	53	91	8	43
CCD5067	●	6.7	53	91	8	43
CCD5068	●	6.8	53	91	8	43
CCD5069	●	6.9	53	91	8	43
CCD5070	●	7.0	53	91	8	43
CCD5071	●	7.1	53	91	8	43
CCD5072	●	7.2	53	91	8	43
CCD5073	●	7.3	53	91	8	43
CCD5074	●	7.4	53	91	8	43
CCD5075	●	7.5	53	91	8	43
CCD5076	●	7.6	53	91	8	43
CCD5077	●	7.7	53	91	8	43
CCD5078	●	7.8	53	91	8	43
CCD5079	●	7.9	53	91	8	43

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
CCD5080	●	8.0	53	91	8	43
CCD5081	●	8.1	61	103	10	49
CCD5082	●	8.2	61	103	10	49
CCD5083	●	8.3	61	103	10	49
CCD5084	●	8.4	61	103	10	49
CCD5085	●	8.5	61	103	10	49
CCD5086	●	8.6	61	103	10	49
CCD5087	●	8.7	61	103	10	49
CCD5088	●	8.8	61	103	10	49
CCD5089	●	8.9	61	103	10	49
CCD5090	●	9.0	61	103	10	49
CCD5091	●	9.1	61	103	10	49
CCD5092	●	9.2	61	103	10	49
CCD5093	●	9.3	61	103	10	49
CCD5094	●	9.4	61	103	10	49
CCD5095	●	9.5	61	103	10	49
CCD5096	●	9.6	61	103	10	49
CCD5097	●	9.7	61	103	10	49
CCD5098	●	9.8	61	103	10	49
CCD5099	●	9.9	61	103	10	49
CCD5100	●	10.0	61	103	10	49
CCD5101	●	10.1	71	118	12	56
CCD5102	●	10.2	71	118	12	56
CCD5103	●	10.3	71	118	12	56
CCD5104	●	10.4	71	118	12	56
CCD5105	●	10.5	71	118	12	56
CCD5106	●	10.6	71	118	12	56
CCD5107	●	10.7	71	118	12	56
CCD5108	●	10.8	71	118	12	56
CCD5109	●	10.9	71	118	12	56
CCD5110	●	11.0	71	118	12	56
CCD5111	●	11.1	71	118	12	56
CCD5112	●	11.2	71	118	12	56
CCD5113	●	11.3	71	118	12	56
CCD5114	●	11.4	71	118	12	56
CCD5115	●	11.5	71	118	12	56
CCD5116	●	11.6	71	118	12	56
CCD5117	●	11.7	71	118	12	56
CCD5118	●	11.8	71	118	12	56
CCD5119	●	11.9	71	118	12	56
CCD5120	●	12.0	71	118	12	56
CCD5121	●	12.1	77	124	14	60
CCD5122	●	12.2	77	124	14	60
CCD5123	●	12.3	77	124	14	60
CCD5124	●	12.4	77	124	14	60
CCD5125	●	12.5	77	124	14	60
CCD5126	●	12.6	77	124	14	60
CCD5127	●	12.7	77	124	14	60
CCD5128	●	12.8	77	124	14	60
CCD5129	●	12.9	77	124	14	60

●标准库存 ○订单生产

CCD- HIGH PERFORMANCE DRILLS 5D (END MILL SHANK)

CCD 高性能合金钻头 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
CCD5130	●	13.0	77	124	14	60
CCD5131	●	13.1	77	124	14	60
CCD5132	●	13.2	77	124	14	60
CCD5133	●	13.3	77	124	14	60
CCD5134	●	13.4	77	124	14	60
CCD5135	●	13.5	77	124	14	60
CCD5136	●	13.6	77	124	14	60
CCD5137	●	13.7	77	124	14	60
CCD5138	●	13.8	77	124	14	60
CCD5139	●	13.9	77	124	14	60
CCD5140	●	14.0	77	124	14	60
CCD5141	●	14.1	83	133	16	63
CCD5142	●	14.2	83	133	16	63
CCD5143	●	14.3	83	133	16	63
CCD5144	●	14.4	83	133	16	63
CCD5145	●	14.5	83	133	16	63
CCD5146	●	14.6	83	133	16	63
CCD5147	●	14.7	83	133	16	63
CCD5148	●	14.8	83	133	16	63
CCD5149	●	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
CCD5150	●	15.0	83	133	16	63
CCD5151	●	15.1	83	133	16	63
CCD5152	●	15.2	83	133	16	63
CCD5153	●	15.3	83	133	16	63
CCD5154	●	15.4	83	133	16	63
CCD5155	●	15.5	83	133	16	63
CCD5156	●	15.6	83	133	16	63
CCD5157	●	15.7	83	133	16	63
CCD5158	●	15.8	83	133	16	63
CCD5159	●	15.9	83	133	16	63
CCD5160	●	16.0	83	133	16	63
CCD5165	●	16.5	93	143	18	71
CCD5170	●	17.0	93	143	18	71
CCD5175	●	17.5	93	143	18	71
CCD5180	●	18.0	93	143	18	71
CCD5185	●	18.5	101	153	20	77
CCD5190	●	19.0	101	153	20	77
CCD5195	●	19.5	101	153	20	77
CCD5200	●	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 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	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

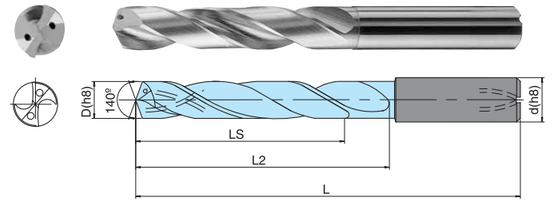
1.此切削条件基准表适用于， 水溶性切削油剂。
2.请使用稀释20倍以下的优质水溶性切削油剂。
3. 使用油性切削油剂或者稀释倍率低于20倍时，切削速度请下调30%。
4.此切削条件基准表适用于孔深在3D 以下的情况。
5.安装钻头时，请将钻头振动抑制0.02mm 以下。
6. 油污堵塞会造成折损，因此供油装置务必安装过滤网。
7. 机器转数无法达到上述切削速度时，请尽可能使用高转速。另外，此情况可能会导致寿命降低。

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）

超微粒 MICRO GRAIN　螺旋 30°　140°　TiAlN Coating



- 直径范围 Tool dia：D3.0-D20.0㎜
- 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 Hardess 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
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	○	3.4	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

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
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	40
HKD3113	○	11.3	55	102	12	40
HKD3114	○	11.4	55	102	12	40
HKD3115	○	11.5	55	102	12	40
HKD3116	○	11.6	55	102	12	40
HKD3117	○	11.7	55	102	12	40
HKD3118	○	11.8	55	102	12	40
HKD3119	○	11.9	55	102	12	40
HKD3120	○	12.0	55	102	12	40
HKD3121	○	12.1	60	107	14	43
HKD3122	○	12.2	60	107	14	43
HKD3123	○	12.3	60	107	14	43
HKD3124	○	12.4	60	107	14	43
HKD3125	○	12.5	60	107	14	43
HKD3126	○	12.6	60	107	14	43
HKD3127	○	12.7	60	107	14	43
HKD3128	○	12.8	60	107	14	43
HKD3129	○	12.9	60	107	14	43

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
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
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	80~120m/min		80~160m/min		80~120m/min		60~90m/min		80~120m/min		60~100m/min		40~80m/min		30~60m/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	回転数 Speed min⁻¹	进给量 Feed mm/rev	回転数 Speed min⁻¹	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

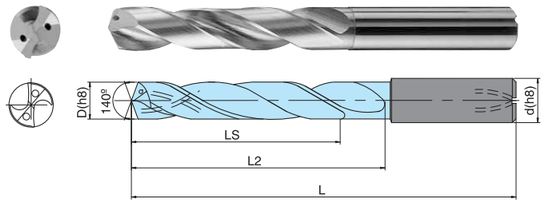
1.此切削条件基准表适用于， 水溶性切削油剂。
2.请使用稀释20倍以下的优质水溶性切削油剂。
3. 使用油性切削油剂或者稀释倍率低于20倍时，切削速度请下调30%。
4.此切削条件基准表适用于孔深在3D 以下的情况。
5.安装钻头时，请将钻头振动抑制0.02mm 以下。
6. 油污堵塞会造成折损，因此供油装置务必安装过滤网。
7. 机器转数无法达到上述切削速度时，请尽可能使用高转速。
另外，此情况可能会导致寿命降低。

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 5D (END MILL SHANK)

HKD 高性能内冷合金钻头 5D（定柄）

超微粒 MICRO GRAIN　螺旋 30　140　TiAlN Coating



- 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 Hardess 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
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

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
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	49
HKD5098	○	9.8	61	103	10	49
HKD5099	○	9.9	61	103	10	49
HKD5100	○	10.0	61	103	10	49
HKD5101	○	10.1	71	118	12	56
HKD5102	○	10.2	71	118	12	56
HKD5103	○	10.3	71	118	12	56
HKD5104	○	10.4	71	118	12	56
HKD5105	○	10.5	71	118	12	56
HKD5106	○	10.6	71	118	12	56
HKD5107	○	10.7	71	118	12	56
HKD5108	○	10.8	71	118	12	56
HKD5109	○	10.9	71	118	12	56
HKD5110	○	11.0	71	118	12	56
HKD5111	○	11.1	71	118	12	56
HKD5112	○	11.2	71	118	12	56
HKD5113	○	11.3	71	118	12	56
HKD5114	○	11.4	71	118	12	56
HKD5115	○	11.5	71	118	12	56
HKD5116	○	11.6	71	118	12	56
HKD5117	○	11.7	71	118	12	56
HKD5118	○	11.8	71	118	12	56
HKD5119	○	11.9	71	118	12	56
HKD5120	○	12.0	71	118	12	56
HKD5121	○	12.1	77	124	14	60
HKD5122	○	12.2	77	124	14	60
HKD5123	○	12.3	77	124	14	60
HKD5124	○	12.4	77	124	14	60
HKD5125	○	12.5	77	124	14	60
HKD5126	○	12.6	77	124	14	60
HKD5127	○	12.7	77	124	14	60
HKD5128	○	12.8	77	124	14	60
HKD5129	○	12.9	77	124	14	60

●标准库存 ○订单生产

●标准库存 ○订单生产

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
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
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

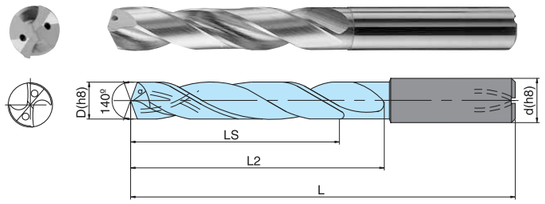
被削材 Work Material	低炭素鋼 ~150HB Low Carbon Steel		炭素鋼 ~210HB Carbon Steel		合金鋼 16~28HRC Alloy Steel		合金鋼 28~35HRC Alloy Steel		灰口铸铁 Cast iron		球墨铸铁 Ductile Cast iron		不锈钢 Stainless Steel		调质钢 34~40HRC Hardened Steel	
切削速度 Cutting Speed mm/min	80~120m/min		80~160m/min		80~120m/min		60~90m/min		80~120m/min		60~100m/min		40~80m/min		30~60m/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	回転数 Speed min^{-1}	进给量 Feed mm/rev	回転数 Speed min^{-1}	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. 机器转数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 Hardess 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
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	○	3.1	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
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	○	9.7	95	142	10	80
HKD8098	○	9.8	95	142	10	80
HKD8099	○	9.9	95	142	10	80
HKD8100	○	10.0	95	142	10	80
HKD8101	○	10.1	114	162	12	96
HKD8102	○	10.2	114	162	12	96
HKD8103	○	10.3	114	162	12	96
HKD8104	○	10.4	114	162	12	96
HKD8105	○	10.5	114	162	12	96
HKD8106	○	10.6	114	162	12	96
HKD8107	○	10.7	114	162	12	96
HKD8108	○	10.8	114	162	12	96
HKD8109	○	10.9	114	162	12	96
HKD8110	○	11.0	114	162	12	96
HKD8111	○	11.1	114	162	12	96
HKD8112	○	11.2	114	162	12	96
HKD8113	○	11.3	114	162	12	96
HKD8114	○	11.4	114	162	12	96
HKD8115	○	11.5	114	162	12	96
HKD8116	○	11.6	114	162	12	96
HKD8117	○	11.7	114	162	12	96
HKD8118	○	11.8	114	162	12	96
HKD8119	○	11.9	114	162	12	96
HKD8120	○	12.0	114	162	12	96
HKD8121	○	12.1	133	178	14	112
HKD8122	○	12.2	133	178	14	112
HKD8123	○	12.3	133	178	14	112
HKD8124	○	12.4	133	178	14	112
HKD8125	○	12.5	133	178	14	112
HKD8126	○	12.6	133	178	14	112
HKD8127	○	12.7	133	178	14	112
HKD8128	○	12.8	133	178	14	112
HKD8129	○	12.9	133	178	14	112

●标准库存 ○订单生产

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)

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
HKD8130	○	13.0	133	178	14	112
HKD8131	○	13.1	133	178	14	112
HKD8132	○	13.2	133	178	14	112
HKD8133	○	13.3	133	178	14	112
HKD8134	○	13.4	133	178	14	112
HKD8135	○	13.5	133	178	14	112
HKD8136	○	13.6	133	178	14	112
HKD8137	○	13.7	133	178	14	112
HKD8138	○	13.8	133	178	14	112
HKD8139	○	13.9	133	178	14	112
HKD8140	○	14.0	133	178	14	112
HKD8141	○	14.1	152	203	16	128
HKD8142	○	14.2	152	203	16	128
HKD8143	○	14.3	152	203	16	128
HKD8144	○	14.4	152	203	16	128
HKD8145	○	14.5	152	203	16	128
HKD8146	○	14.6	152	203	16	128
HKD8147	○	14.7	152	203	16	128
HKD8148	○	14.8	152	203	16	128
HKD8149	○	14.9	152	203	16	128

●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
HKD8150	○	15.0	152	203	16	128
HKD8151	○	15.1	152	203	16	128
HKD8152	○	15.2	152	203	16	128
HKD8153	○	15.3	152	203	16	128
HKD8154	○	15.4	152	203	16	128
HKD8155	○	15.5	152	203	16	128
HKD8156	○	15.6	152	203	16	128
HKD8157	○	15.7	152	203	16	128
HKD8158	○	15.8	152	203	16	128
HKD8159	○	15.9	152	203	16	128
HKD8160	○	16.0	152	203	16	128
HKD8165	○	16.5	171	222	18	144
HKD8170	○	17.0	171	222	18	144
HKD8175	○	17.5	171	222	18	144
HKD8180	○	18.0	171	222	18	144
HKD8185	○	18.5	190	243	20	160
HKD8190	○	19.0	190	243	20	160
HKD8195	○	19.5	190	243	20	160
HKD8200	○	20.0	190	243	20	160

●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	80~120m/min		80~160m/min		80~120m/min		60~90m/min		80~120m/min		60~100m/min		40~80m/min		30~60m/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	回転数 Speed min^{-1}	进给量 Feed mm/rev	回転数 Speed min^{-1}	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. 机器转数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。

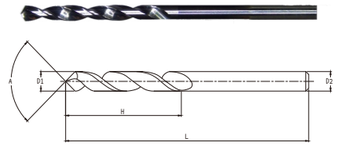
1. The indicated speeds and feeds are for drilling with water-soluble oil.
2. Suitable cutting fluid is water-soluble high density oil (less than 20 times dilution).
3. When using non-water-soluble oil or water-soluble oil (over 20 times dilution), reduce cutting speed by 30%.
4. These conditions are 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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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
CD0500	○	0.5	5.0	0.5	50
CD0600	○	0.6	7.0	0.6	50
CD0700	○	0.7	10.0	0.7	50
CD0800	○	0.8	10.0	0.8	50
CD0900	○	0.9	10.0	0.9	50
CD1000	○	1.0	12.0	1.0	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
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	18.0	2	60
CD2500	○	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
CD2500	○	2. 50	20.0	2.50	60
CD2550	○	2. 45	20.0	2.45	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

●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
CD2950	○	2. 95	25.0	2. 95	60
CD3000	○	3	25.0	3	75
CD3500	○	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
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	25.0	3. 65	75
CD3700	○	3. 70	25.0	3. 70	75
CD3750	○	3. 75	25.0	3. 75	75
CD3800	○	3. 80	25.0	3. 80	75
CD3850	○	3. 85	25.0	3. 85	75
CD3900	○	3. 90	25.0	3. 90	75
CD3950	○	3. 95	25.0	3. 95	75
CD4000	○	4	25.0	4	75
CD4050	○	4. 05	25.0	4. 05	75
CD4100	○	4. 10	25.0	4. 10	100
CD4150	○	4. 15	25.0	4. 15	100
CD4200	○	4. 20	25.0	4. 20	100
CD4250	○	4. 25	25.0	4. 25	100
CD4300	○	4. 30	25.0	4. 30	100
CD4350	○	4. 35	25.0	4. 35	100
CD4400	○	4. 40	25.0	4. 40	100
CD4450	○	4. 45	25.0	4. 45	100
CD4500	○	4. 50	25.0	4. 50	100
CD4550	○	4. 55	25.0	4. 55	100
CD4600	○	4. 60	25.0	4. 60	100
CD4650	○	4. 65	25.0	4. 65	100
CD4700	○	4. 70	25.0	4. 70	100
CD4750	○	4. 75	25.0	4. 75	100
CD4800	○	4. 80	25.0	4. 80	100
CD4850	○	4. 85	25.0	4. 85	100
CD4900	○	4. 90	25.0	4. 90	100
CD4950	○	4. 95	25.0	4. 95	100
CD5000	○	5	25.0	5	100

●标准库存 ○订单生产

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
CD5500	○	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
CD5050	○	5.50	40.0	5.50	100
CD5550	○	5.55	40.0	5.55	100
CD5600	○	5.60	40.0	5.60	100
CD5650	○	5.65	40.0	5.65	100
CD5700	○	5.70	40.0	5.70	100
CD5750	○	5.75	40.0	5.75	100
CD5800	○	5.80	40.0	5.80	100
CD5850	○	5.85	40.0	5.85	100
CD5900	○	5.90	40.0	5.90	100
CD5950	○	5.95	40.0	5.95	100
CD6000	○	6	40.0	6	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	40.0	7	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
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
CD8600	○	8.6	40.0	8.6	100
CD8650	○	8.65	40.0	8.65	100
CD8700	○	8.70	40.0	8.70	100
CD8750	○	8.75	40.0	8.75	100
CD8800	○	8.80	40.0	8.80	100
CD8500	○	8.85	40.0	8.85	100
CD8900	○	8.90	40.0	8.90	100
CD8950	○	8.95	40.0	8.95	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
CD10050	○	10.05	50.0	10.05	120
CD10100	○	10.10	50.0	10.10	120
CD10150	○	10.15	50.0	10.15	120
CD10200	○	10.20	50.0	10.20	120
CD10250	○	10.25	50.0	10.25	120
CD10300	○	10.30	50.0	10.30	120
CD10350	○	10.35	50.0	10.35	120
CD10400	○	10.40	50.0	10.40	120

●标准库存 ○订单生产

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
CD10450	○	10.45	50.0	10.45	120
CD10500	○	10.50	50.0	10.50	120
CD10550	○	10.55	50.0	10.55	120
CD10600	○	10.60	50.0	10.60	120
CD10650	○	10.65	50.0	10.65	120
CD10700	○	10.70	50.0	10.70	120
CD10750	○	10.75	50.0	10.75	120
CD10800	○	10.80	50.0	10.80	120
CD10850	○	10.85	50.0	10.85	120
CD10900	○	10.90	50.0	10.90	120
CD10950	○	10.95	50.0	10.95	120
CD11000	○	11	50.0	11	120
CD11050	○	11. 50	50.0	11. 50	120
CD11100	○	11.10	50.0	11.10	120
CD11150	○	11.15	50.0	11.15	120
CD11200	○	11.20	50.0	11.20	120
CD11250	○	11.25	50.0	11.25	120
CD11300	○	11. 30	50.0	11. 30	120
CD11350	○	11. 35	50.0	11. 35	120

●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
CD11400	○	11.40	50.0	11.40	120
CD11450	○	11.45	50.0	11.45	120
CD11500	○	11.50	50.0	11.50	120
CD11550	○	11.55	50.0	11.55	120
CD11600	○	11.60	50.0	11.60	120
CD11650	○	11.65	50.0	11.65	120
CD11700	○	11.70	50.0	11.70	120
CD11750	○	11.75	50.0	11.75	120
CD11800	○	11.80	50.0	11.80	120
CD11850	○	11.85	50.0	11.85	120
CD11900	○	11.90	50.0	11.90	120
CD11950	○	11.95	50.0	11.95	120
CD12000	○	12	50.0	12	120
CD12050	○	12.05	50.0	12.05	120
CD12100	○	12.10	50.0	12.10	120
CD12150	○	12.15	50.0	12.15	120
CD12200	○	12.20	50.0	12.20	120
CD12500	○	12.50	50.0	12.50	120
CD12700	○	12.70	50.0	12.70	120

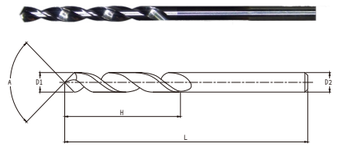
●标准库存 ○订单生产

CDL- GENERAL LONG FLUTE DRILLS(STRAIGHT SHANK)

CDL 普通直柄加长合金钻头

超硬 CARBIDE | D=d | Regular Flute | 螺旋 35° | 120°

- 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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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
CDL2000	○	2.00	50	2.00	100
CDL2050	○	2.05	50	2.05	100
CDL2100	○	2.10	50	2.10	100
CDL2150	○	2.15	50	2.15	100
CDL2200	○	2.20	50	2.20	100
CDL2250	○	2.25	50	2.25	100
CDL2300	○	2.30	50	2.30	100
CDL2350	○	2.35	50	2.35	100
CDL2400	○	2.40	50	2.40	100
CDL2450	○	2.45	50	2.45	100
CDL2500	○	2.50	50	2.50	100
CDL2550	○	2.55	50	2.55	100
CDL2600	○	2.60	50	2.60	100
CDL2650	○	2.65	50	2.65	100
CDL2700	○	2.70	50	2.70	100
CDL2750	○	2.75	50	2.75	100
CDL2800	○	2.80	50	2.80	100
CDL2850	○	2.85	50	2.85	100
CDL2900	○	2.90	50	2.90	100
CDL2950	○	2.95	50	2.95	100
CDL3000	○	3.00	50	3.00	100
CDL3050	○	3.05	50	3.05	100
CDL3100	○	3.10	50	3.10	100
CDL3150	○	3.15	50	3.15	100
CDL3200	○	3.20	50	3.20	100
CDL3250	○	3.25	50	3.25	100
CDL3300	○	3.30	50	3.30	100
CDL3350	○	3.35	50	3.35	100
CDL3400	○	3.40	50	3.40	100
CDL3450	○	3.45	50	3.45	100
CDL3500	○	3.50	50	3.50	100
CDL3550	○	3.55	50	3.55	100
CDL3600	○	3.60	50	3.60	100
CDL3650	○	3.65	50	3.65	100
CDL3700	○	3.70	50	3.70	100
CDL3750	○	3.75	50	3.75	100
CDL3800	○	3.80	50	3.80	100
CDL3850	○	3.85	50	3.85	100
CDL3900	○	3.90	50	3.90	100
CDL3950	○	3.95	50	3.95	100
CDL4000	○	4.00	50	4.00	100
CDL4050	○	4.05	50	4.05	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
CDL4100	○	4.10	50	4.10	100
CDL4150	○	4.15	50	4.15	100
CDL4200	○	4.20	50	4.20	100
CDL4250	○	4.25	50	4.25	100
CDL4300	○	4.30	50	4.30	100
CDL4350	○	4.35	50	4.35	100
CDL4400	○	4.40	50	4.40	100
CDL4450	○	4.45	50	4.45	100
CDL4500	○	4.50	50	4.50	100
CDL4550	○	4.55	50	4.55	100
CDL4600	○	4.60	50	4.60	100
CDL4650	○	4.65	50	4.65	100
CDL4700	○	4.70	50	4.70	100
CDL4750	○	4.75	50	4.75	100
CDL4800	○	4.80	50	4.80	100
CDL4850	○	4.85	50	4.85	100
CDL4900	○	4.90	50	4.90	100
CDL4950	○	4.95	50	4.95	100
CDL5000	○	5.00	50	5.00	100
CDL5050	○	5.05	50	5.05	100
CDL5150	○	5.15	50	5.15	100
CDL5200	○	5.20	50	5.20	100
CDL5250	○	5.25	50	5.25	100
CDL5300	○	5.30	50	5.30	100
CDL5350	○	5.35	50	5.35	100
CDL5400	○	5.40	50	5.40	100
CDL5450	○	5.45	50	5.45	100
CDL5500	○	5.50	50	5.50	100
CDL5550	○	5.55	50	5.55	100
CDL5600	○	5.60	50	5.60	100
CDL5650	○	5.65	50	5.65	100
CDL5700	○	5.70	50	5.70	100
CDL5750	○	5.75	50	5.75	100
CDL5800	○	5.80	50	5.80	100
CDL5850	○	5.85	50	5.85	100
CDL5900	○	5.90	50	5.90	100
CDL5950	○	5.95	50	5.95	100
CDL6000	○	6.00	50	6.00	100
CDL6050	○	6.05	50	6.05	100
CDL6100	○	6.10	50	6.10	100
CDL6150	○	6.15	50	6.15	100
CDL6200	○	6.20	50	6.20	100

●标准库存 ○订单生产

CDL- GENERAL LONG FLUTE DRILLS(STRAIGHT SHANK)
CDL 普通直柄加长合金钻头

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
CDL6250	○	6.25	50.0	6.25	100
CDL6300	○	6.30	50.0	6.30	100
CDL6350	○	6.35	50.0	6.35	100
CDL6400	○	6.40	50.0	6.40	100
CDL6450	○	6.45	50.0	6.45	100
CDL6500	○	6.50	50.0	6.50	100
CDL6550	○	6.55	50.0	6.55	100
CDL6600	○	6.60	50.0	6.60	100
CDL6650	○	6.65	50.0	6.65	100
CDL6700	○	6.70	50.0	6.70	100
CDL6750	○	6.75	50.0	6.75	100
CDL6800	○	6.80	50.0	6.80	100
CDL6850	○	6.85	50.0	6.85	100
CDL6900	○	6.90	50.0	6.90	100
CDL6950	○	6.95	50.0	6.95	100
CDL7000	○	7.00	50.0	7.00	100
CDL7050	○	7.05	50.0	7.05	100
CDL7100	○	7.10	50.0	7.10	100
CDL7150	○	7.15	50.0	7.15	100
CDL7200	○	7.20	50.0	7.20	100
CDL7250	○	7.25	50.0	7.25	100
CDL7300	○	7.30	50.0	7.30	100
CDL7350	○	7.35	50.0	7.35	100
CDL7400	○	7.40	50.0	7.40	100
CDL7450	○	7.45	50.0	7.45	100
CDL7500	○	7.50	50.0	7.50	100
CDL7550	○	7.55	50.0	7.55	100
CDL7600	○	7.60	50.0	7.60	100
CDL7650	○	7.65	50.0	7.65	100
CDL7700	○	7.70	50.0	7.70	100
CDL7750	○	7.75	50.0	7.75	100
CDL7800	○	7.80	50.0	7.80	100
CDL7850	○	7.85	50.0	7.85	100
CDL7900	○	7.90	50.0	7.90	100
CDL7950	○	7.95	50.0	7.95	100
CDL8000	○	8.00	50.0	8.00	100
CDL8050	○	8.05	50.0	8.05	100
CDL8100	○	8.10	50.0	8.10	100
CDL8150	○	8.15	50.0	8.15	100
CDL8200	○	8.20	50.0	8.20	100
CDL8250	○	8.25	50.0	8.25	100
CDL8300	○	8.30	50.0	8.30	100
CDL8350	○	8.35	50.0	8.35	100
CDL8400	○	8.40	50.0	8.40	100
CDL8450	○	8.45	50.0	8.45	100
CDL8500	○	8.50	50.0	8.50	100
CDL8550	○	8.55	50.0	8.55	100
CDL8600	○	8.60	50.0	8.60	100
CDL8650	○	8.65	50.0	8.65	100
CDL8700	○	8.70	50.0	8.70	100
CDL8750	○	8.75	50.0	8.75	100
CDL8800	○	8.80	50.0	8.80	100
CDL8850	○	8.85	50.0	8.85	100
CDL8900	○	8.90	50.0	8.90	100
CDL8950	○	8.95	50.0	8.95	100
CDL9000	○	9.00	50.0	9.00	100
CDL9050	○	9.05	50.0	9.05	100
CDL9100	○	9.10	50.0	9.10	100
CDL9150	○	9.15	50.0	9.15	100
CDL9200	○	9.20	50.0	9.20	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
CDL9250	○	9. 25	50.0	9. 25	100
CDL9300	○	9. 30	50.0	9. 30	100
CDL9350	○	9. 35	50.0	9. 35	100
CDL9400	○	9. 40	50.0	9. 40	100
CDL9450	○	9. 45	50.0	9. 45	100
CDL9500	○	9. 50	50.0	9. 50	100
CDL9550	○	9. 55	50.0	9. 55	100
CDL9600	○	9. 60	50.0	9. 60	100
CDL9650	○	9. 65	50.0	9. 65	100
CDL9700	○	9. 70	50.0	9. 70	100
CDL9750	○	9. 75	50.0	9. 75	100
CDL9800	○	9. 80	50.0	9. 80	100
CDL9850	○	9. 85	50.0	9. 85	100
CDL9900	○	9. 90	50.0	9. 90	100
CDL9950	○	9. 95	50.0	9. 95	100
CDL10000	○	10. 00	50.0	10. 00	100
CDL10050	○	10. 05	50.0	10. 05	100
CDL10100	○	10. 10	50.0	10. 10	100
CDL10150	○	10. 15	50.0	10. 15	100
CDL10200	○	10. 20	50.0	10. 20	100
CDL10250	○	10. 25	50.0	10. 25	100
CDL10300	○	10. 30	50.0	10. 30	100
CDL10350	○	10. 35	50.0	10. 35	100
CDL10400	○	10. 40	50.0	10. 40	100
CDL10450	○	10. 45	50.0	10. 45	100
CDL10500	○	10. 50	50.0	10. 50	100
CDL10550	○	10. 55	50.0	10. 55	100
CDL10600	○	10. 60	50.0	10. 60	100
CDL10650	○	10. 65	50.0	10. 65	100
CDL10700	○	10. 70	50.0	10. 70	100
CDL10750	○	10. 75	50.0	10. 75	100
CDL10800	○	10. 80	50.0	10. 80	100
CDL10850	○	10. 85	50.0	10. 85	100
CDL10900	○	10. 90	50.0	10. 90	100
CDL10950	○	10. 95	50.0	10. 95	100
CDL11000	○	11. 00	50.0	11. 00	100
CDL11050	○	11. 05	50.0	11. 05	100
CDL11100	○	11. 10	50.0	11. 10	100
CDL11150	○	11. 15	50.0	11. 15	100
CDL11200	○	11. 20	50.0	11. 20	100
CDL11250	○	11. 25	50.0	11. 25	100
CDL11300	○	11. 30	50.0	11. 30	100
CDL11350	○	11. 35	50.0	11. 35	100
CDL11400	○	11. 40	50.0	11. 40	100
CDL11450	○	11. 45	50.0	11. 45	100
CDL11500	○	11. 50	50.0	11. 50	100
CDL11550	○	11. 55	50.0	11. 55	100
CDL11600	○	11. 60	50.0	11. 60	100
CDL11650	○	11. 65	50.0	11. 65	100
CDL11700	○	11. 70	50.0	11. 70	100
CDL11750	○	11. 75	50.0	11. 75	100
CDL11800	○	11. 80	50.0	11. 80	100
CDL11850	○	11. 85	50.0	11. 85	100
CDL11900	○	11. 90	50.0	11. 90	100
CDL11950	○	11. 95	50.0	11. 95	100
CDL12000	○	12. 00	50.0	12. 00	100
CDL12050	○	12. 05	50.0	12. 05	100
CDL12100	○	12. 10	50.0	12. 10	100
CDL12150	○	12. 15	50.0	12. 15	100
CDL12200	○	12. 20	50.0	12. 20	100

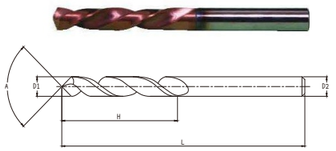
●标准库存 ○订单生产

HD- COATING DRILLS(STRAIGHT SHANK)

HD 涂层直柄合金钻头

超硬 CARBIDE | D=d | Regular Flute | 螺旋 25 | 118° 135 | TIALN Coating

- 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	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
HD0500	○	0.5	5.0	0.5	50
HD0600	○	0.6	7.0	0.6	50
HD0700	○	0.7	10.0	0.7	50
HD0800	○	0.8	10.0	0.8	50
HD0900	○	0.9	10.0	0.9	50
HD1000	○	1.0	12.0	1.0	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
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	18.0	2	60
HD2500	○	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
HD2500	○	2.50	20.0	2.45	60
HD2550	○	2.45	20.0	2.60	60
HD2600	○	2.60	20.0	2.65	60
HD2650	○	2.65	20.0	2.70	60
HD2700	○	2.70	20.0	2.75	60
HD2750	○	2.75	20.0	2.80	60
HD2800	○	2.80	20.0	2.85	60
HD2850	○	2.85	20.0	2.90	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
HD2900	○	2.90	20.0	2.90	60
HD2950	○	2. 95	20.0	2. 95	60
HD3000	○	3	25.0	3	75
HD3500	○	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	75
HD3300	○	3. 30	25.0	3. 30	75
HD3350	○	3. 35	25.0	3. 35	75
HD3500	○	3. 50	25.0	3. 50	75
HD3550	○	3. 55	25.0	3. 55	75
HD3600	○	3. 60	25.0	3. 60	75
HD3650	○	3. 65	27.0	3. 65	75
HD3700	○	3. 70	27.0	3. 70	75
HD3750	○	3. 75	27.0	3. 75	75
HD3800	○	3. 80	27.0	3. 80	75
HD3850	○	3. 85	27.0	3. 85	75
HD3900	○	3. 90	27.0	3. 90	75
HD3950	○	3. 95	27.0	3. 95	75
HD4000	○	4	27.0	4	75
HD4050	○	4. 05	27.0	4. 05	75
HD4100	○	4. 10	30.0	4. 10	100
HD4150	○	4. 15	30.0	4. 15	100
HD4200	○	4. 20	30.0	4. 20	100
HD4250	○	4. 25	30.0	4. 25	100
HD4300	○	4. 30	30.0	4. 30	100
HD4350	○	4. 35	30.0	4. 35	100
HD4400	○	4. 40	30.0	4. 40	100
HD4450	○	4. 45	30.0	4. 45	100
HD4500	○	4. 50	30.0	4. 50	100
HD4550	○	4. 55	30.0	4. 55	100
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	40.0	5	100

●标准库存 ○订单生产

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
HD5500	○	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
HD5050	○	5.50	40.0	5.50	100
HD5550	○	5.55	40.0	5.55	100
HD5600	○	5.60	40.0	5.60	100
HD5650	○	5.65	40.0	5.65	100
HD5700	○	5.70	40.0	5.70	100
HD5750	○	5.75	40.0	5.75	100
HD5800	○	5.80	40.0	5.80	100
HD5850	○	5.85	40.0	5.85	100
HD5900	○	5.90	40.0	5.90	100
HD5950	○	5.95	40.0	5.95	100
HD6000	○	6	40.0	6	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	40.0	7	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
HD7850	○	7.85	0.0	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
HD8600	○	8.6	40.0	8.6	100
HD8650	○	8.65	40.0	8.65	100
HD8700	○	8.70	40.0	8.70	100
HD8750	○	8.75	40.0	8.75	100
HD8800	○	8.80	40.0	8.80	100
HD8500	○	8.85	40.0	8.85	100
HD8900	○	8.90	40.0	8.90	100
HD8950	○	8.95	40.0	8.95	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
HD10050	○	10.05	50.0	10.05	120
HD10100	○	10.10	50.0	10.10	120
HD10150	○	10.15	50.0	10.15	120
HD10200	○	10.20	50.0	10.20	120
HD10250	○	10.25	50.0	10.25	120
HD10300	○	10.30	50.0	10.30	120
HD10350	○	10.35	50.0	10.35	120
HD10400	○	10.40	50.0	10.40	120
HD10450	○	10.45	50.0	10.45	120
HD10300	○	10.30	50.0	10.30	120
HD10350	○	10.35	50.0	10.35	120
HD10400	○	10.40	50.0	10.40	120

●标准库存 ○订单生产

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
HD10450	○	10.45	50.0	10.45	120
HD10500	○	10.50	50.0	10.50	120
HD10550	○	10.55	50.0	10.55	120
HD10600	○	10.60	50.0	10.60	120
HD10650	○	10.65	50.0	10.65	120
HD10700	○	10.70	50.0	10.70	120
HD10750	○	10.75	50.0	10.75	120
HD10800	○	10.80	50.0	10.80	120
HD10850	○	10.85	50.0	10.85	120
HD10900	○	10.90	50.0	10.90	120
HD10950	○	10.95	50.0	10.95	120
HD11000	○	11	50.0	11	120
HD11050	○	11. 50	50.0	11. 50	120
HD11100	○	11.10	50.0	11.10	120
HD11150	○	11.15	50.0	11.15	120
HD11200	○	11.20	50.0	11.20	120
HD11250	○	11.25	50.0	11.25	120
HD11300	○	11. 30	50.0	11. 30	120
HD11350	○	11. 35	50.0	11. 35	120

●标准库存 ○订单生产

单位:(mm)

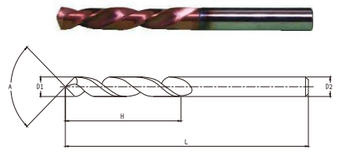
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L
HD11400	○	11.40	50.0	11.40	120
HD11450	○	11.45	50.0	11.45	120
HD11500	○	11.50	50.0	11.50	120
HD11550	○	11.55	50.0	11.55	120
HD11600	○	11.60	50.0	11.60	120
HD11650	○	11.65	50.0	11.65	120
HD11700	○	11.70	50.0	11.70	120
HD11750	○	11.75	50.0	11.75	120
HD11800	○	11.80	50.0	11.80	120
HD11850	○	11.85	50.0	11.85	120
HD11900	○	11.90	50.0	11.90	120
HD11950	○	11.95	50.0	11.95	120
HD12000	○	12	50.0	12	120
HD12050	○	12.05	50.0	12.05	120
HD12100	○	12.10	50.0	12.10	120
HD12150	○	12.15	50.0	12.15	120
HD12200	○	12.20	50.0	12.20	120
HD12500	○	12.50	50.0	12.50	120
HD12700	○	12.70	50.0	12.70	120

●标准库存 ○订单生产

HDL- COATING LONG FLUTE DRILLS(STRAIGHT SHANK)

HDL 涂层直柄加长合金钻头





- 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	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
HDL2000	○	2.00	50	2.00	100
HDL2050	○	2.05	50	2.05	100
HDL2100	○	2.10	50	2.10	100
HDL2150	○	2.15	50	2.15	100
HDL2200	○	2.20	50	2.20	100
HDL2250	○	2.25	50	2.25	100
HDL2300	○	2.30	50	2.30	100
HDL2350	○	2.35	50	2.35	100
HDL2400	○	2.40	50	2.40	100
HDL2450	○	2.45	50	2.45	100
HDL2500	○	2.50	50	2.50	100
HDL2550	○	2.55	50	2.55	100
HDL2600	○	2.60	50	2.60	100
HDL2650	○	2.65	50	2.65	100
HDL2700	○	2.70	50	2.70	100
HDL2750	○	2.75	50	2.75	100
HDL2800	○	2.80	50	2.80	100
HDL2850	○	2.85	50	2.85	100
HDL2900	○	2.90	50	2.90	100
HDL2950	○	2.95	50	2.95	100
HDL3000	○	3.00	50	3.00	100
HDL3050	○	3.05	50	3.05	100
HDL3100	○	3.10	50	3.10	100
HDL3150	○	3.15	50	3.15	100
HDL3200	○	3.20	50	3.20	100
HDL3250	○	3.25	50	3.25	100
HDL3300	○	3.30	50	3.30	100
HDL3350	○	3.35	50	3.35	100
HDL3400	○	3.40	50	3.40	100
HDL3450	○	3.45	50	3.45	100
HDL3500	○	3.50	50	3.50	100
HDL3550	○	3.55	50	3.55	100
HDL3600	○	3.60	50	3.60	100
HDL3650	○	3.65	50	3.65	100
HDL3700	○	3.70	50	3.70	100
HDL3750	○	3.75	50	3.75	100
HDL3800	○	3.80	50	3.80	100
HDL3850	○	3.85	50	3.85	100
HDL3900	○	3.90	50	3.90	100
HDL3950	○	3.95	50	3.95	100
HDL4000	○	4.00	50	4.00	100
HDL4050	○	4.05	50	4.05	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
HDL4100	○	4.10	50	4.10	100
HDL4150	○	4.15	50	4.15	100
HDL4200	○	4.20	50	4.20	100
HDL4250	○	4.25	50	4.25	100
HDL4300	○	4.30	50	4.30	100
HDL4350	○	4.35	50	4.35	100
HDL4400	○	4.40	50	4.40	100
HDL4450	○	4.45	50	4.45	100
HDL4500	○	4.50	50	4.50	100
HDL4550	○	4.55	50	4.55	100
HDL4600	○	4.60	50	4.60	100
HDL4650	○	4.65	50	4.65	100
HDL4700	○	4.70	50	4.70	100
HDL4750	○	4.75	50	4.75	100
HDL4800	○	4.80	50	4.80	100
HDL4850	○	4.85	50	4.85	100
HDL4900	○	4.90	50	4.90	100
HDL4950	○	4.95	50	4.95	100
HDL5000	○	5.00	50	5.00	100
HDL5050	○	5.05	50	5.05	100
HDL5150	○	5.15	50	5.15	100
HDL5200	○	5.20	50	5.20	100
HDL5250	○	5.25	50	5.25	100
HDL5300	○	5.30	50	5.30	100
HDL5350	○	5.35	50	5.35	100
HDL5400	○	5.40	50	5.40	100
HDL5450	○	5.45	50	5.45	100
HDL5500	○	5.50	50	5.50	100
HDL5550	○	5.55	50	5.55	100
HDL5600	○	5.60	50	5.60	100
HDL5650	○	5.65	50	5.65	100
HDL5700	○	5.70	50	5.70	100
HDL5750	○	5.75	50	5.75	100
HDL5800	○	5.80	50	5.80	100
HDL5850	○	5.85	50	5.85	100
HDL5900	○	5.90	50	5.90	100
HDL5950	○	5.95	50	5.95	100
HDL6000	○	6.00	50	6.00	100
HDL6050	○	6.05	50	6.05	100
HDL6100	○	6.10	50	6.10	100
HDL6150	○	6.15	50	6.15	100
HDL6200	○	6.20	50	6.20	100

●标准库存 ○订单生产

HDL- COATING LONG FLUTE DRILLS(STRAIGHT SHANK)

HDL 涂层直柄加长合金钻头

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
HDL6250	○	6.25	50.0	6.25	100
HDL6300	○	6.30	50.0	6.30	100
HDL6350	○	6.35	50.0	6.35	100
HDL6400	○	6.40	50.0	6.40	100
HDL6450	○	6.45	50.0	6.45	100
HDL6500	○	6.50	50.0	6.50	100
HDL6550	○	6.55	50.0	6.55	100
HDL6600	○	6.60	50.0	6.60	100
HDL6650	○	6.65	50.0	6.65	100
HDL6700	○	6.70	50.0	6.70	100
HDL6750	○	6.75	50.0	6.75	100
HDL6800	○	6.80	50.0	6.80	100
HDL6850	○	6.85	50.0	6.85	100
HDL6900	○	6.90	50.0	6.90	100
HDL6950	○	6.95	50.0	6.95	100
HDL7000	○	7.00	50.0	7.00	100
HDL7050	○	7.05	50.0	7.05	100
HDL7100	○	7.10	50.0	7.10	100
HDL7150	○	7.15	50.0	7.15	100
HDL7200	○	7.20	50.0	7.20	100
HDL7250	○	7.25	50.0	7.25	100
HDL7300	○	7.30	50.0	7.30	100
HDL7350	○	7.35	50.0	7.35	100
HDL7400	○	7.40	50.0	7.40	100
HDL7450	○	7.45	50.0	7.45	100
HDL7500	○	7.50	50.0	7.50	100
HDL7550	○	7.55	50.0	7.55	100
HDL7600	○	7.60	50.0	7.60	100
HDL7650	○	7.65	50.0	7.65	100
HDL7700	○	7.70	50.0	7.70	100
HDL7750	○	7.75	50.0	7.75	100
HDL7800	○	7.80	50.0	7.80	100
HDL7850	○	7.85	50.0	7.85	100
HDL7900	○	7.90	50.0	7.90	100
HDL7950	○	7.95	50.0	7.95	100
HDL8000	○	8.00	50.0	8.00	100
HDL8050	○	8.05	50.0	8.05	100
HDL8100	○	8.10	50.0	8.10	100
HDL8150	○	8.15	50.0	8.15	100
HDL8200	○	8.20	50.0	8.20	100
HDL8250	○	8.25	50.0	8.25	100
HDL8300	○	8.30	50.0	8.30	100
HDL8350	○	8.35	50.0	8.35	100
HDL8400	○	8.40	50.0	8.40	100
HDL8450	○	8.45	50.0	8.45	100
HDL8500	○	8.50	50.0	8.50	100
HDL8550	○	8.55	50.0	8.55	100
HDL8600	○	8.60	50.0	8.60	100
HDL8650	○	8.65	50.0	8.65	100
HDL8700	○	8.70	50.0	8.70	100
HDL8750	○	8.75	50.0	8.75	100
HDL8800	○	8.80	50.0	8.80	100
HDL8850	○	8.85	50.0	8.85	100
HDL8900	○	8.90	50.0	8.90	100
HDL8950	○	8.95	50.0	8.95	100
HDL9000	○	9.00	50.0	9.00	100
HDL9050	○	9.05	50.0	9.05	100
HDL9100	○	9.10	50.0	9.10	100
HDL9150	○	9.15	50.0	9.15	100
HDL9200	○	9.20	50.0	9.20	100

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
HDL9250	○	9. 25	50.0	9. 25	100
HDL9300	○	9. 30	50.0	9. 30	100
HDL9350	○	9. 35	50.0	9. 35	100
HDL9400	○	9. 40	50.0	9. 40	100
HDL9450	○	9. 45	50.0	9. 45	100
HDL9500	○	9. 50	50.0	9. 50	100
HDL9550	○	9. 55	50.0	9. 55	100
HDL9600	○	9. 60	50.0	9. 60	100
HDL9650	○	9. 65	50.0	9. 65	100
HDL9700	○	9. 70	50.0	9. 70	100
HDL9750	○	9. 75	50.0	9. 75	100
HDL9800	○	9. 80	50.0	9. 80	100
HDL9850	○	9. 85	50.0	9. 85	100
HDL9900	○	9. 90	50.0	9. 90	100
HDL9950	○	9. 95	50.0	9. 95	100
HDL10000	○	10. 00	50.0	10. 00	100
HDL10050	○	10. 05	50.0	10. 05	100
HDL10100	○	10. 10	50.0	10. 10	100
HDL10150	○	10. 15	50.0	10. 15	100
HDL10200	○	10. 20	50.0	10. 20	100
HDL10250	○	10. 25	50.0	10. 25	100
HDL10300	○	10. 30	50.0	10. 30	100
HDL10350	○	10. 35	50.0	10. 35	100
HDL10400	○	10. 40	50.0	10. 40	100
HDL10450	○	10. 45	50.0	10. 45	100
HDL10500	○	10. 50	50.0	10. 50	100
HDL10550	○	10. 55	50.0	10. 55	100
HDL10600	○	10. 60	50.0	10. 60	100
HDL10650	○	10. 65	50.0	10. 65	100
HDL10700	○	10. 70	50.0	10. 70	100
HDL10750	○	10. 75	50.0	10. 75	100
HDL10800	○	10. 80	50.0	10. 80	100
HDL10850	○	10. 85	50.0	10. 85	100
HDL10900	○	10. 90	50.0	10. 90	100
HDL10950	○	10. 95	50.0	10. 95	100
HDL11000	○	11. 00	50.0	11. 00	100
HDL11050	○	11. 05	50.0	11. 05	100
HDL11100	○	11. 10	50.0	11. 10	100
HDL11150	○	11. 15	50.0	11. 15	100
HDL11200	○	11. 20	50.0	11. 20	100
HDL11250	○	11. 25	50.0	11. 25	100
HDL11300	○	11. 30	50.0	11. 30	100
HDL11350	○	11. 35	50.0	11. 35	100
HDL11400	○	11. 40	50.0	11. 40	100
HDL11450	○	11. 45	50.0	11. 45	100
HDL11500	○	11. 50	50.0	11. 50	100
HDL11550	○	11. 55	50.0	11. 55	100
HDL11600	○	11. 60	50.0	11. 60	100
HDL11650	○	11. 65	50.0	11. 65	100
HDL11700	○	11. 70	50.0	11. 70	100
HDL11750	○	11. 75	50.0	11. 75	100
HDL11800	○	11. 80	50.0	11. 80	100
HDL11850	○	11. 85	50.0	11. 85	100
HDL11900	○	11. 90	50.0	11. 90	100
HDL11950	○	11. 95	50.0	11. 95	100
HDL12000	○	12. 00	50.0	12. 00	100
HDL12050	○	12. 05	50.0	12. 05	100
HDL12100	○	12. 10	50.0	12. 10	100
HDL12150	○	12. 15	50.0	12. 15	100
HDL12200	○	12. 20	50.0	12. 20	100

●标准库存 ○订单生产

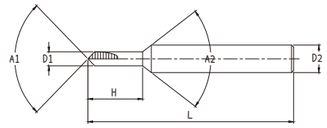
●标准库存 ○订单生产

CHSD- MULTI-FUNCTION SPOTTING 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 Hardess steel ~55 HRC	淬火钢 Hardess steel ~60 HRC	淬火钢 Hardess steel ~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
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

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
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

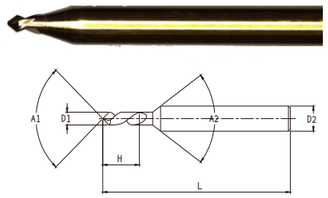
切削参数表 Standard Drilling Conditions

被削材 Work Material	炭素鋼 Carbon Steel			合金鋼 Alloy Steel			調質鋼 Heat treated Steel			不锈钢 Stainless Steel		
直径 Drill Dia. mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 Q mm	回転数 Rotation min^{-1}	进给速度 Feed mm/min	进给量 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	10000~20000	5~20	0.0005~0.001
0.1-0.29	15000~10000	15~70	0.0015~0.007	15000~10000	15~70	0.0015~0.007	13000~8800	13~35	0.001~0.004	10000~5000	10~15	0.001~0.003
0.3-0.49	10000~9500	70~95	0.007~0.01	10000~9500	70~95	0.007~0.01	8800~6500	26~32	0.003~0.005	5000~4500	5~22	0.001~0.005
0.5-0.99	9500~7700	95~154	0.01~0.02	9500~7700	95~154	0.01~0.02	6500~4800	32~48	0.005~0.01	4500~3200	22~32	0.005~0.01
1.0-1.99	7700~5100	154~255	0.02~0.05	7700~5100	154~255	0.02~0.05	3100~2400	31~72	0.01~0.03	3200~2400	32~72	0.01~0.03
2.0-3.0	5100~4200	300	0.06	5100~4200	300	0.06	2400~1600	48~64	0.02~0.04	2400~1800	72~90	0.03~0.05

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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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
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

单位:(mm)

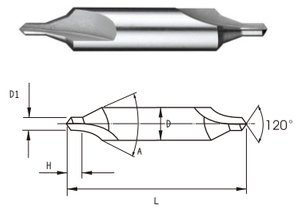
型号 Model	库存 Stock	直径 Dia D1	刃长 Flute length H	柄径 Shank D	全长 Total length L
CHSXD1500	○	1.50	2.5	3	30
CHSXD1550	○	1.55	2.5	3	30
CHSXD1600	○	1.60	2.5	3	30
CHSXD1650	○	1.65	2.5	3	30
CHSXD1700	○	1.70	2.5	3	30
CHSXD1750	○	1.75	2.5	3	30
CHSXD1800	○	1.80	2.5	3	30
CHSXD1850	○	1.85	2.5	3	30
CHSXD1900	○	1.90	2.5	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 S55C Carbon Steel	合金钢 SK·SCM SUS Alloy Steel	预热钢 NAK HPM Pre-Hardened Steel	淬火钢 Hardess 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
CND0100-60	○	1.0	1.6	3	40
CND0125-60	○	1.25	1.9	3	40
CND0150-60	○	1.5	2	4	40
CND0200-60	○	2.0	2.5	4	40
CND0250-60	○	2.5	3	6	50
CND0300-60	○	3.0	3.5	6	50
CND0315-60	○	3.15	5	8	60
CND0400-60	○	4.0	5.0	10	60
CND0500-60	○	5.0	6.3	10	60

●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
CND0100-90	○	1.0	1.6	3	40
CND0125-90	○	1.25	1.9	3	40
CND0150-90	○	1.5	2	4	40
CND0200-90	○	2.0	2.5	4	40
CND0250-90	○	2.5	3	6	50
CND0300-90	○	3.0	3.5	6	50
CND0315-90	○	3.15	5	8	60
CND0400-90	○	4.0	5.0	10	60
CND0500-90	○	5.0	6.3	10	60

●标准库存 ○订单生产

丝攻
Thread Taps



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Identification method

高速钢丝攻 HSS-CO THREAD TAPS

JIS螺旋槽系列 N02-N07
JIS Spiral Fluted Taps Series

JIS先端系列 N08-N14
JIS Spiral Pointed Taps (Gun-nose Taps) Series

JIS专用系列 N15-N20
JIS Special Taps Series

JIS挤压丝攻系列 N21-N22
JIS Forming Taps Series

JIS手用丝攻 N23-N28
JIS Straight Fluted Taps (Hand Taps) Series

管螺纹丝攻系列 N29-N32
Pipe Taps Series

加长丝攻系列 N33-N34
Long Taps Series

DIN371/376 丝攻系列 N35-N36
DIN371/376 Taps Series

合金丝攻 CARBIDE TAPS

JIS合金丝攻系列 N37-N42
JIS Carbide Taps Series

KOVES丝攻标识方式：

Machine tap identification method:

TNH: 多功能系列
Muli-Function

TKH: 铸铁专用系列
Special for Cast iron

TMH: 不锈钢专用系列
Special for Stainless steel

TAH: 铜铝专用系列
Special for Copper & Aluminum Alloy

TNP: 粉末高速钢系列
Powder high speed steel

TNC: 硬质合金系列
Tungsten Carbide Material

TNH - M4x0.7 - SFT - PE - J - TIN - H4

SFT:螺旋丝攻 Spiral Fluted Tap
POT:先端丝攻 Spiral Pointed Tap (Gun-nose Tape)
KRT:挤压丝攻 Forming Tap
HT :手用丝攻 Straight Fluted Tap (Hand Tap)

BE:细牙 fine thread
PE:粗牙 coarse thread
LE:左旋 left-handed

J:JIS
D:DIN
I:ISO

无：抛光 polishing
B：发黑 black
TIN：镀钛 Titanium coating

精度等级 Tolerance grade

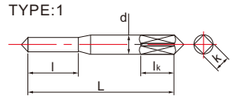
JIS Metric Spiral Fluted Taps
JIS公制粗牙螺旋槽系列



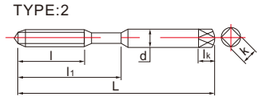
- 抗拉强度600-900N/MM^{2}的高碳钢镍铬合合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、镁铝合金等。
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM2 Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Magnesium aluminum alloy, etc.

通/盲孔
加工皆适
Through hole
Blind hole

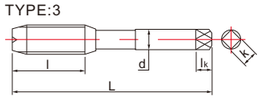
TYPE:1



TYPE:2



TYPE:3



型号 Model	公制牙(M)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l_1	d	k	l_k	Type	Flutes
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 Spiral Fluted Taps
JIS公制细牙螺旋槽系列

MF JIS 35° HSS-Co 6H 60° 切刃牙 2.5

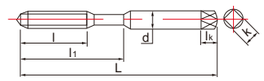
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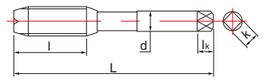
通/盲孔
加工皆适
Through hole
Blind hole



TYPE:2



TYPE:3



型号 Model	公制牙(M)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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	1 05	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 Spiral Fluted Taps
JIS公制细牙螺旋槽系列

MF JIS 35° HSS-Co 6H 60° 切刃牙 2.5

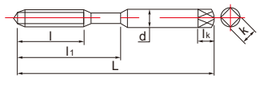
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- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM2 Alloy tools, bronze, cast iron, etc.
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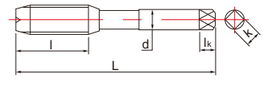
通/盲孔
加工皆适
Through hole
Blind hole



TYPE:2



TYPE:3



型号 Model	公制牙(M)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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 American UN Spiral Fluted Taps
JIS美制粗牙螺旋槽系列

UNC JIS 35° HSS-Co 6H 60° 切刃牙 2.5

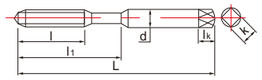


- 抗拉强度600-900N/MM^{2}的高碳钢镍铬合合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、镁铝合金等。

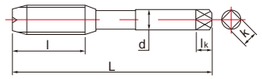
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM2 Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Magnesium aluminum alloy, etc.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3



型号 Model	美制牙(UNC)		尺寸 Dimensions(mm)							
	Size	Nominal Dia.	L	l	l1	d	k	lk	Type	Flutes
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	4.1 66	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-3/8-16UNC-SFT-PE-J	3/8-16UNC	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-1(1/8)-7UNC-SFT-PE-J	1(1/8)-7UNC	28.575	135	48		22.0	17	20	3	4
TNH-1(1/4)-7UNC-SFT-PE-J	1(1/4)-7UNC	31.750	145	51		24.0	19	22	3	4
TNH-1(3/8)-6UNC-SFT-PE-J	1(3/8)-6UNC	34.925	155	57		26.0	21	24	3	4
TNH-1(1/2)-61UNC-SFT-PE-J	1(1/2)-61UNC	38.100	160	60		30.0	23	26	3	4
TNH-1(3/4)-5UNC-SFT-PE-J	1(3/4)-5UNC	44.450	175	67		35.0	26	30	3	4
TNH-2-4(1/2)UNC-SFT-PE-J	2-4(1/2)UNC	50.800	195	70		40.0	32	35	3	4

JIS American UN Spiral Fluted Taps
JIS美制细牙螺旋槽系列

UNC JIS 35° HSS-Co 6H 60° 切刃牙 2.5

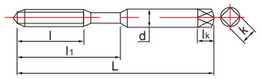


- 抗拉强度600-900N/MM^{2}的高碳钢镍铬合合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、镁铝合金等。

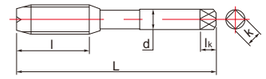
- High carbon steel ni-Cr alloy with tensile strength of 600-900N/MM2 Alloy tools, bronze, cast iron, etc.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Magnesium aluminum alloy, etc.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3



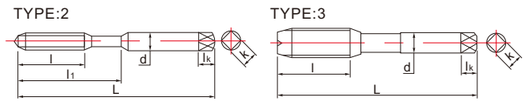
型号 Model	美制牙(UNC)		尺寸 Dimensions(mm)							
	Size	Nominal Dia.	L	l	l1	d	k	lk	Type	Flutes
TNH-No.2-64UNF-SFT-BE-J	No.2-64UNF	2.184	42	9.5	15	3.0	2.5	5	2	2
TNH-No.3-56UNF-SFT-BE-J	No.3-56UNF	2.515	44	9.5	16	3.0	2.5	5	2	2
TNH-No.4-484UNF-SFT-BE-J	No.4-484UNF	2.845	44	9.5	16	3.0	2.5	5	2	2
TNH-No.5-44UNF-SFT-BE-J	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.12-28UNF-SFT-BE-J	No.12-28UNF	5.486	60	16	25	5.5	4.5	7	2	3
TNH-1/4-28UNF-SFT-BE-J	1/4-28UNF	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-5/16-32UNEF-SFT-BE-J	5/16-32UNEF	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-1/2-20UNF-SFT-BE-J	1/2-20UNF	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-9/16-24UNEF-SFT-BE-J	9/16-24UNEF	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 BSW Spiral Fluted Taps
JIS英制粗牙螺旋槽系列



- 抗拉强度600-900N/MM^{2}的高碳钢镍铬合合金工具、青铜、铸铁、等。
- 抗拉强度750N/MM^{2}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
Through hole
Blind hole



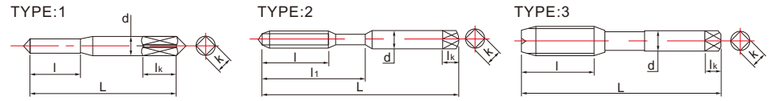
型号 Model	英制牙(BSW)		尺寸 Dimensions(mm)							
	Size	Basic Major Dia.	L	l	l1	d	k	lk	Type	Flutes
TNH-1/8W40BSW-SFT-PE-J	1/8W40	3.175	46	11	18	4.0	3.2	6	2	3
TNH-5/32W32BSW-SFT-PE-J	5/32W32	3.969	52	13	21	5.0	4.0	7	2	3
TNH-3/16W24BSW-SFT-PE-J	3/16W24	4.762	60	16	25	5.5	4.5	7	2	3
TNH-7/32W24BSW-SFT-PE-J	7/32W24	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	5/8W1 1	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-1(1/8)W7BSW-SFT-PE-J	1(1/8)W7	28.575	135	48		22.0	17	20	3	4
TNH-1(1/4)W7BSW-SFT-PE-J	1(1/4)W7	31.750	145	51		24.0	19	22	3	4
TNH-1(3/8)W6BSW-SFT-PE-J	1(3/8)W6	34.925	155	57		26.0	21	24	3	4
TNH-1(1/2)W6BSW-SFT-PE-J	1(1/2)W6	38.100	165	60		30.0	23	26	3	4
TNH-1(5/8)W5BSW-SFT-PE-J	1(5/8)W5	41.275	170	60		32.0	26	30	3	4
TNH-1(3/4)W5BSW-SFT-PE-J	1(3/4)W5	44.450	175	67		35.0	26	30	3	4
TNH-1(7/8)W41/2BSW-SFT-PE-J	1(7/8)W41/2	47.625	185	67		38.0	29	32	3	4
TNH-2W4(1/2)BSW-SFT-PE-J	2W4(1/2)	50.800	195	70		40.0	32	35	3	4

JIS Metric Spiral Pointed Taps (Gun-nose 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/MM^{2}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
Through hole



型号 Model	公制牙(M)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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		6.2	5.0	8	3	3
TNH-M9.0X1.25-POT-PE-J	M9	1.25	72	22		7.0	5.5	8	3	3
TNH-M10.0X1.5-POT-PE-J	M10	1.50	75	24		7.0	5.5	8	3	3
TNH-M11X1.5-POT-PE-J	M11	1.50	80	25		8.0	6.0	9	3	3
TNH-M12X1.75-POT-PE-J	M12	1.75	82	29		8.5	6.5	9	3	3
TNH-M14X2.0-POT-PE-J	M14	2.00	88	30		10.5	8.0	11	3	3
TNH-M15X2.0-POT-PE-J	M15	2.00	90	30		10.5	8.0	11	3	3
TNH-M16X2.0-POT-PE-J	M16	2.00	95	32		12.5	10	13	3	3
TNH-M17X2.0-POT-PE-J	M17	2.00	95	32		13.0	10	13	3	3
TNH-M18X2.5-POT-PE-J	M18	2.50	100	37		14.0	11	14	3	3
TNH-M20X2.5-POT-PE-J	M20	2.50	105	37		15.0	12	15	3	3
TNH-M22X2.5-POT-PE-J	M22	2.50	115	38		17.0	13	16	3	3
TNH-M24X3.0-POT-PE-J	M24	3.00	120	45		19.0	15	18	3	3
TNH-M26X3.0-POT-PE-J	M26.	3.00	125	45		20.0	15	18	3	4
TNH-M27X3.0-POT-PE-J	M27	3.00	130	45		20.0	15	18	3	4
TNH-M30X3.5-POT-PE-J	M30	3.50	135	48		23.0	17	20	3	4
TNH-M33X3.5-POT-PE-J	M33	3.50	145	51		25.0	19	22	3	4
TNH-M36X4.0-POT-PE-J	M36	4.00	1 55	57		28.0	21	24	3	4
TNH-M39X4.0-POT-PE-J	M39	4.00	165	60		30.0	23	26	3	4
TNH-M42X4.5-POT-PE-J	M42	4.50	175	60		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
喱語	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 Spiral Pointed Taps (Gun-nose Taps)
JIS公制细牙先端系列

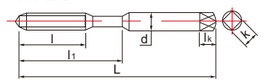
MF JIS Spiral pointed 先端 HSS-Co 6H 60° 切刃牙 2.5



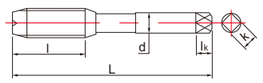
- 适用被切削材料：碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: carbon steel, alloy steel, non-iron metal.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Aluminum magnesium alloy, etc.

通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	公制牙(MF)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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-M5x0.75-POT-BE-J	M5	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		6.2	5.0	8	3	3
TNH-M8.0x0.75-POT-BE-J	M8	0.75	70	22		6.2	5.0	8	3	3
TNH-M9.0x1.0-POT-BE-J	M9	1.00	72	22		7.0	5.5	8	3	3
TNH-M9.0x0.75-POT-BE-J	M9	0.75	72	22		7.0	5.5	8	3	3
TNH-M9.0x0.5-POT-BE-J	M9	0.50	72	22		7.0	5.5	8	3	3
TNH-M10x1.25-POT-BE-J	M10	1.25	75	24		7.0	5.5	8	3	3
TNH-M10x1.0-POT-BE-J	M10	1.00	75	24		7.0	5.5	8	3	3
TNH-M10x0.75-POT-BE-J	M10	0.75	75	22		7.0	5.5	8	3	3
TNH-M10x0.5-POT-BE-J	M10	0.50	75	22		7.0	5.5	8	3	3
TNH-M11x1.25-POT-BE-J	M11	1.25	80	25		8.0	6.0	9	3	3
TNH-M11x1.0-POT-BE-J	M11	1.00	80	25		8.0	6.0	9	3	3
TNH-M11x0.75-POT-BE-J	M11	0.75	75	22		8.0	6.0	9	3	3
TNH-M12x1.5-POT-BE-J	M12	1.50	82	29		8.5	6.5	9	3	3
TNH-M12x1.25-POT-BE-J	M12	1.25	82	29		8.5	6.5	9	3	3
TNH-M12x0.75-POT-BE-J	M12	0.75	75	22		8.5	6.5	9	3	3
TNH-M12x0.5-POT-BE-J	M12	0.50	75	22		8.5	6.5	9	3	3
TNH-M13x1.75-POT-BE-J	M13	1.75	85	29		9.5	7.0	10	3	3
TNH-M13x1.5-POT-BE-J	M13	1.50	85	29		9.5	7.0	10	3	3
TNH-M14x1.5-POT-BE-J	M14	1.50	88	30		10.5	8.0	11	3	3
TNH-M14x1.25-POT-BE-J	M14	1.25	88	30		10.5	8.0	11	3	3
TNH-M14x1.0-POT-BE-J	M14	1.00	88	30		10.5	8.0	11	3	3
TNH-M15x1.5-POT-BE-J	M15	1.50	90	30		10.5	8.0	11	3	3
TNH-M15x1.0-POT-BE-J	M15	1.00	90	30		10.5	8.0	11	3	3
TNH-M16x1.5-POT-BE-J	M16	1.50	95	32		12.5	10	13	3	3
TNH-M16x1.0-POT-BE-J	M16	1.00	95	32		12.5	10	13	3	3
TNH-M17x1.5-POT-BE-J	M17	1.50	95	32		13.0	10	13	3	3
TNH-M17x1.0-POT-BE-J	M17	1.00	95	32		13.0	10	13	3	3
TNH-M18x2.0-POT-BE-J	M18	2.00	100	37		14.0	11	14	3	3
TNH-M18x1.5-POT-BE-J	M18	1.50	100	37		14.0	11	14	3	3
TNH-M18x1.25-POT-BE-J	M18	1.25	95	30		14.0	11	14	3	3
TNH-M18x1.0-POT-BE-J	M18	1.00	95	30		14.0	11	14	3	3
TNH-M19x1.5-POT-BE-J	M19	1.50	105	37		14.0	11	14	3	3
TNH-M19x1.0-POT-BE-J	M19	1.00	95	30		14.0	11	14	3	3
TNH-M20x2.0-POT-BE-J	M20	2.00	105	37		15.0	12	15	3	3
TNH-M20x1.5-POT-BE-J	M20	1.50	105	37		15.0	12	15	3	3
TNH-M22x2.0-POT-BE-J	M22	2.00	115	38		17.0	13	16	3	3
TNH-M22x1.5-POT-BE-J	M22	1.50	115	38		17.0	13	16	3	3
TNH-M22x1.0-POT-BE-J	M22	1.00	95	30		17.0	13	16	3	3

JIS Metric Spiral Pointed Taps (Gun-nose Taps)
JIS公制细牙先端系列

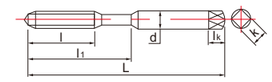
MF JIS Spiral pointed 先端 HSS-Co 6H 60° 切刃牙 2.5



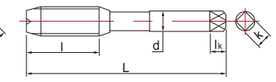
- 适用被切削材料：碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: carbon steel, alloy steel, non-iron metal.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Aluminum magnesium alloy, etc.

通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	公制牙(MF)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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 American UN Spiral Pointed Taps (Gun-nose Taps)
JIS美制粗牙先端系列

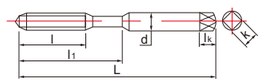
UNC JIS Spiral pointed 先端 HSS-Co 6H 60° 切刃牙 2.5



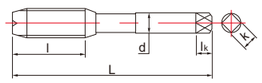
- 适用被切削材料：不锈钢、碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Aluminum magnesium alloy, etc.

通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	美制牙(UNC)		尺寸 Dimensions(mm)							
	Size	Nominal Dia.	L	l	l_1	d	k	l_k	Type	Flutes
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-1(1/8)-7UNC-POT-PE-J	1(1/8)-7UNC	28.575	135	48		22.0	17	20	3	4
TNH-1(1/4)-7UNC-POT-PE-J	1(1/4)-7UNC	31.750	145	51		24.0	19	22	3	4
TNH-1(3/8)-6UNC -POT-PE-J	1(3/8)-6UNC	34.925	155	57		26.0	21	24	3	4
TNH-1(1/2)-6UNC-POT-PE-J	1(1/2)-6UNC	38.100	160	60		30.0	23	26	3	4
TNH-1(3/4)-5UNC-POT-PE-J	1(3/4)-5UNC	44.450	175	67		35.0	26	30	3	4

JIS American UN Spiral Pointed Taps (Gun-nose Taps)
JIS美制细牙先端系列

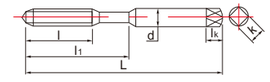
UNC JIS Spiral pointed 先端 HSS-Co 6H 60° 切刃牙 2.5



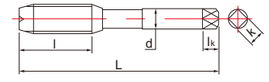
- 适用被切削材料：不锈钢、碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Aluminum magnesium alloy, etc.

通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	美制牙(UNC)		尺寸 Dimensions(mm)							
	Size	Nominal Dia.	L	l	l_1	d	k	l_k	Type	Flutes
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.6-40UNF-POT-BE-J	No.6-40UNF	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-1/4-32UNEF-POT-BE-J	1/4-32UNEF	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-5/16-32UNEF-POT-BE-J	5/16-32UNEF	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-3/8-32UNEF-POT-BE-J	3/8-32UNEF	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-7/16-28UNEF-POT-BE-J	7/16-28UNEF	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-1/2-28UNEF-POT-BE-J	1/2-28UNEF	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-9/16-24UNEF-POT-BE-J	9/16-24UNEF	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-5/8-24UNEF-POT-BE-J	5/8-24UNEF	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-3/4-20UNEF-POT-BE-J	3/4-20UNEF	19.050	95	30		14.0	11.0	14	3	3

JIS BSW Spiral Pointed Taps (Gun-nose Taps)
JIS英制粗牙先端系列

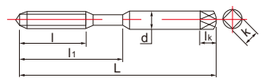
BSW JIS Spiral pointed 先端 HSS-Co 6H 55° 切刃牙 2.5



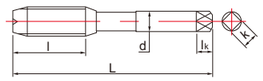
- 适用被切削材料：不锈钢、碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Aluminum magnesium alloy, etc.

通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	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-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	4
TNH-7/8W9BSW-POT-PE-J	7/8W9	22.225	115	38		17.0	13	16	3	4
TNH-1W8BSW-POT-PE-J	1W8	25.400	125	45		20.0	15	18	3	4
TNH-1(1/8)W7BSW-POT-PE-J	1(1/8)W7	28.575	135	48		22.0	17	20	3	4
TNH-1(1/4)W7BSW-POT-PE-J	1(1/4)W7	31.750	145	51		24.0	19	22	3	4
TNH-1(3/8)W6BSW-POT-PE-J	1(3/8)W6	34.925	155	57		26.0	21	24	3	4
TNH-1(1/2)W6BSW-POT-PE-J	1(1/2)W6	38.100	165	60		30.0	23	26	3	4
TNH-1(5/8)W5BSW-POT-PE-J	1(5/8)W5	41.275	170	60		32.0	26	30	3	4
TNH-1(3/4)W5BSW-POT-PE-J	1(3/4)W5	44.450	175	67		35.0	26	30	3	4
TNH-1(7/8)W4(1/2)BSW-POT-PE-J	1(7/8)W4(1/2)	47.625	185	67		38.0	29	32	3	4
TNH-2W4(1/2)BSW-POT-PE-J	2W4(1/2)	50.800	195	70		40.0	32	35	3	4

JIS Metric Left-Hand Spiral Pointed Taps (Gun-nose Taps)
JIS公制左旋右切系列

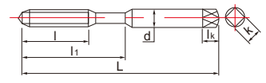
M JIS Spiral pointed 先端 35° HSS-Co 6H 60° 切刃牙 5



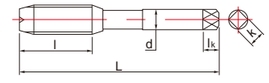
- 适用被切削材料：不锈钢、碳钢、合金钢、非铁金属。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝镁合金等。
- Suitable for cutting materials: stainless steel, carbon steel, alloy steel, Non-ferrous metals.
- Medium and low carbon steel with tensile strength up to 750N/MM2, copper, Aluminum magnesium alloy, etc.

通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	公制牙(M)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l_1	d	k	l_k	Type	Flutes
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 Metric Spiral Fluted Taps, for Cast Iron
JIS铸铁专用螺旋槽系列

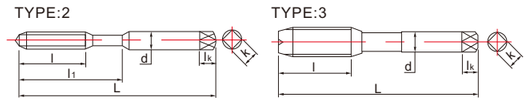
M | JIS | 35° | HSS-Co | 6H | 60° | 切刃牙 2.5

- 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	公制牙(M)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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

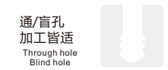
JIS Metric Spiral Fluted Taps, for Stainless Steel
JIS不锈钢专用螺旋槽系列

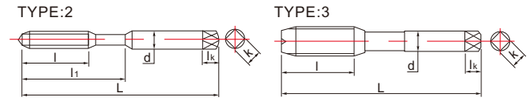
M | JIS | 35° | HSS-Co | 6H | 60° | 切刃牙 2.5

- 适用被切削材料:抗拉强度750N/MM^{2}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	公制牙(M)		尺寸 Dimensions(mm)							
	Size	Pitch	L	l	l1	d	k	lk	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 Metric Spiral Fluted Taps, for Copper & Aluminum Alloy

JIS铜铝合金专用螺旋槽系列

M | JIS | 35° | HSS-Co | 6H | 60° | 切刃牙 2.5

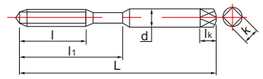
- 适用被切削材料：铝、锌、压铸合金等非铁金属。
- 注意：符号※者较合适MACHINE/CNC自动化钢性攻牙。

- 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.

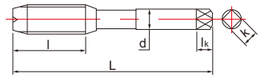


通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3



型号 Model	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 Metric Spiral Pointed Taps (Gun-nose Taps), for Stainless Steel

JIS不锈钢专用先端丝攻

M | JIS | 35° | HSS-Co | 6H | 60° | 切刃牙 2.5

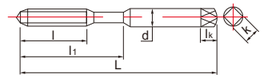
- 适用被切削材料:抗拉强度750N/MM^{2}以下之不锈钢、碳钢、合金钢、铁钢与调质钢。
- 建议适用于攻牙深度为丝攻外径1.5倍2倍之牙孔。

- 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.

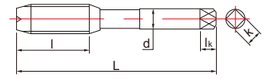


通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	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 Metric Spiral Fluted Taps (POWDER METALLURGY HIGH SPEED STEEL)

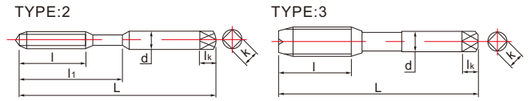
JIS公制粉末高速钢螺旋槽系列

M | JIS | 35° | CPM | 6H | 60° | 切刃牙 2.5

- 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
Through hole
Blind hole



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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 Spiral Pointed Taps (Gun-nose Taps) (POWDER METALLURGY HIGH SPEED STEEL)

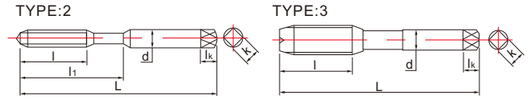
JIS公制粉末高速钢先端系列

M | JIS | Spira point 先端 | CPM | 6H | 60° | 切刃牙 5

- 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
Through hole



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
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	○	M1 1	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	○	M1 6	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 Forming Taps
JIS公制挤压丝攻系列

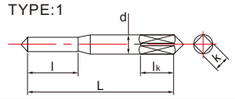
M JIS HSS-Co 6H 60° 切刃牙 5

- 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/MM^{2}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...

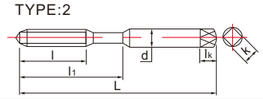


通/盲孔
加工皆适
Through hole
Blind hole

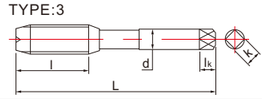
TYPE:1



TYPE:2



TYPE:3



型号 Model	公制牙(M) Size	Pitch	精度	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	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 American UN Forming Taps
JIS美制挤压丝攻系列

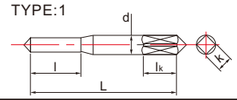
UNC JIS HSS-Co 6H 60°

- 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/MM^{2}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...

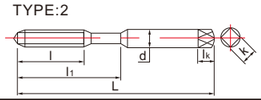


通/盲孔
加工皆适
Through hole
Blind hole

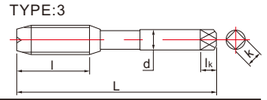
TYPE:1



TYPE:2



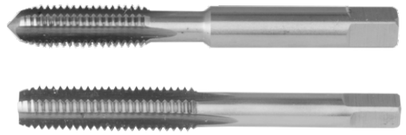
TYPE:3



型号 Model	公制牙(M) Size	Nominal Dia.	精度	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	Type
TNH-No.0-80UNF-KRT-J-H4	No.0-80UNF	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.4-40UNC-KRT-J-H5	No.4-40UNC	2.845	H5	44	9.5	16	3.0	2.5	5	2
TNH-No.4-40UNC-KRT-J-H6			H6							
TNH-No.4-40UNC-KRT-J-H7			H7							
TNH-No.5-40UNC-KRT-J-H4	No.5-40UNC	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	48	13	20	4.0	3.2	6	2
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 Straight Fluted Taps (Hand Taps)
JIS公制粗牙手用丝攻系列

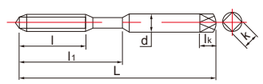
M | JIS | Straight Flute 直槽 | HSS | 6H | 60° | 切刃牙 2.5



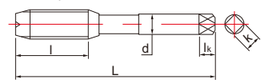
- 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。
- Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3

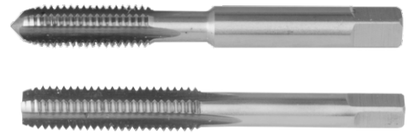


型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
TNH-M2.0x0.4-HT-PE-J	○	M2	0.40	42	9.5	15	3.0	2.5	5	2	3
TNH-M2.2x0.4-HT-PE-J	○	M2.2	0.45	42	9.5	15	3.0	2.5	5	2	3
TNH-M2.3x0.4-HT-PE-J	○	M2.3	0.40	42	9.5	15	3.0	2.5	5	2	3
TNH-M2.5x0.45-HT-PE-J	○	M2.5	0.45	44	9.5	16	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 Straight Fluted Taps (Hand Taps)
JIS公制细牙手用丝攻系列

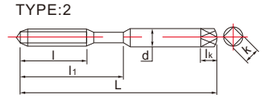
MF | JIS | Straight Flute 直槽 | HSS | 6H | 60° | 切刃牙 2.5



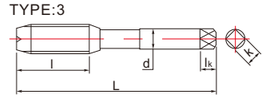
- 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。
- Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3

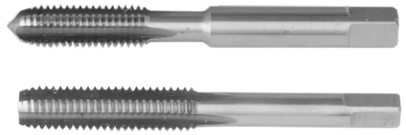


型号 Model	库存 Stock	公制牙(MF)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l1	d	k	lk	Type	Flutes
TNH-M2.0x0.25-HT-BE-J	○	M2	0.25	42	7	15	3.0	2.5	5	2	3
TNH-M2.3x0.25-HT-BE-J	○	M2.3	0.25	42	7	15	3.0	2.5	5	2	3
TNH-M2.5x0.35-HT-BE-J	○	M2.5	0.35	44	8	16	3.0	2.5	5	2	3
TNH-M2.6x0.35-HT-BE-J	○	M2.6	0.35	44	8	16	3.0	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 American UN Straight Fluted Taps (Hand Taps)
JIS 美制粗牙手用丝攻系列

UNC JIS Straight Flute 直槽 HSS 6H 60° 切刃牙 2.5

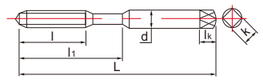


● 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。

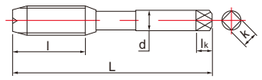
● Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



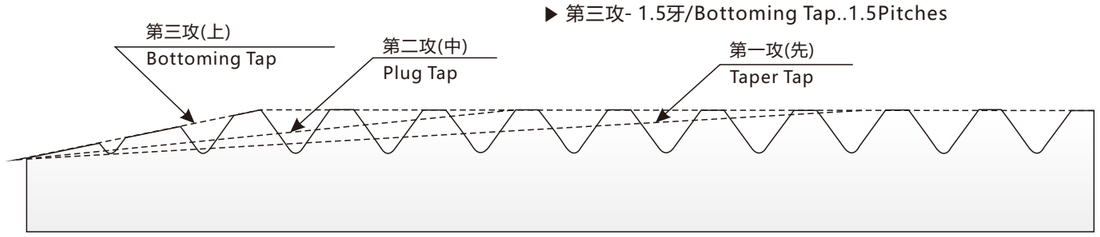
TYPE:3



型号 Model	库存 Stock	美制牙(UNC) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	Type	Flutes
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	3.1 75	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.10-24UNC-HT-PE-J	○	No.10-24UNC	4.826	60	16	25	5.5	4.5	7	2	3
TNH-No.12-24UNC-HT-PE-J	○	No.12-24UNC	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-1(1/8)-7UNC-HT-PE-J	○	1(1/8)-7UNC	28.575	135	48		22.0	17	20	3	4
TNH-1(1/4)- 7UNC-HT-PE-J	○	1(1/4)- 7UNC	31.750	145	51		24.0	19	22	3	4
TNH-1(3/8)-6UNC-HT-PE-J	○	1(3/8)-6UNC	34.925	155	57		26.0	21	24	3	4
TNH-1(1/2)-6UNC-HT-PE-J	○	1(1/2)-6UNC	38.100	160	60		30.0	23	26	3	4
TNH-1(3/4)-5UNC-HT-PE-J	○	1(3/4)-5UNC	44.450	175	67		35.0	26	30	3	4
TNH-2-4(1/2)UNC-HT-PE-J	○	2-4(1/2)UNC	50.800	195	70		40.0	32	35	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:

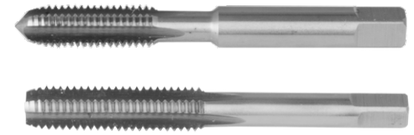


▶ 第一攻- 9牙/Taper Tap...9 Pitches
▶ 第二攻- 5牙/Plug Tap...5 pitches
▶ 第三攻- 1.5牙/Bottoming Tap..1.5Pitches

▶ 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)

JIS American UN Straight Fluted Taps (Hand Taps)
JIS 美制细牙手用丝攻系列

UNC JIS Straight Flute 直槽 HSS 6H 60° 切刃牙 2.5

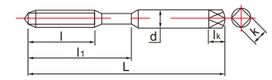


● 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。

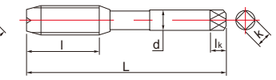
● Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3

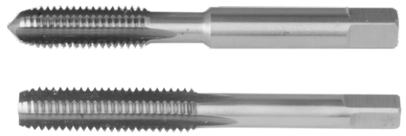


型号 Model	库存 Stock	美制牙(UNC) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	Type	Flutes
TNH-No.2-64UNF-HT-BE-J	○	No.2-64UNF	2.184	42	9.5	15	3.0	2.5	5	2	3
TNH-No.3-56UNF-HT-BE-J	○	No.3-56UNF	2.515	44	9.5	16	3.0	2.5	5	2	3
TNH-No.4-48UNF-HT-BE-J	○	No.4-48UNF	2.845	44	9.5	16	3.0	2.5	5	2	3
TNH-No.5-44UNF-HT-BE-J	○	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	4.1 66	52	13	21	5.0	4.0	7	2	3
TNH-No.10-32UNF-HT-BE-J	○	No.10-32UNF	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-7/16-28UNEF-HT-BE-J	○	7/16-28UNEF	11.112	80	25		8.0	6.0	9	3	4
TNH-1/2-20UNF-HT-BE-J	○	1/2-20UNF	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

JIS BSW Straight Fluted Taps (Hand Taps))
JIS 英制粗牙手用丝攻系列

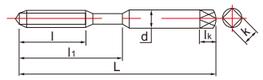
BSW JIS Straight Flute 直槽 HSS 6H 55° 切刃牙 2.5



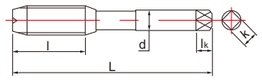
- 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。
- Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3

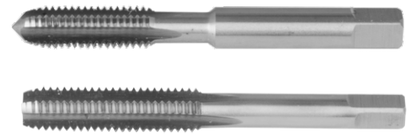


型号 Model	库存 Stock	英制牙(BSW) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	Type	Flutes
TNH-1/8W40BSW-HT-PE-J	○	1/8W40	3.175	46	11	18	4.0	3.2	6	2	3
TNH-5/32W32BSW-HT-PE-J	○	5/32W32	3.969	52	13	21	5.0	4.0	7	2	3
TNH-3/16W24BSW-HT-PE-J	○	3/16W24	4.762	60	16	25	5.5	4.5	7	2	3
TNH-7/32W24BSW-HT-PE-J	○	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		6.1	5.0	8	3	4
TNH-3/8W16BSW-HT-PE-J	○	3/8W16	9.525	75	24		7.0	5.5	8	3	4
TNH-7/16W14BSW-HT-PE-J	○	7/16W14	11.112	80	25		8.0	6.0	9	3	4
TNH-1/2W12BSW-HT-PE-J	○	1/2W12	12.700	85	29		9.0	7.0	10	3	4
TNH-9/16W12BSW-HT-PE-J	○	9/16W12	14.288	90	30		10.5	8.0	11	3	4
TNH-5/8W11BSW-HT-PE-J	○	5/8W11	15.875	95	32		12.0	9.0	12	3	4
TNH-3/4W10BSW-HT-PE-J	○	3/4W10	19.050	105	37		14.0	11	14	3	4
TNH-7/8W9BSW-HT-PE-J	○	7/8W9	22.225	115	38		17.0	13	16	3	4
TNH-1W8BSW-HT-PE-J	○	1W8	25.400	125	45		20.0	15	18	3	4
TNH-1(1/8)W7BSW-HT-PE-J	○	1(1/8)W7	28.575	135	48		22.0	17	20	3	4
TNH-1(1/4)W7BSW-HT-PE-J	○	1(1/4)W7	31.750	145	51		24.0	19	22	3	4
TNH-1(3/8)W6BSW-HT-PE-J	○	1(3/8)W6	34.925	155	57		26.0	21	24	3	4
TNH-1(1/2)W6BSW-HT-PE-J	○	1(1/2)W6	38.100	165	60		30.0	23	26	3	4
TNH-1(5/8)W5BSW-HT-PE-J	○	1(5/8)W5	41.275	170	60		32.0	26	30	3	4
TNH-1(3/4)W5BSW-HT-PE-J	○	1(3/4)W5	44.450	175	67		35.0	26	30	3	4
TNH-1(7/8)W4(1/2)BSW-HT-PE-J	○	1(7/8)W4(1/2)	47.625	185	67		38.0	29	32	3	4
TNH-2W4(1/2)BSW-HT-PE-J	○	2W4(1/2)	50.800	195	70		40.0	32	35	3	4

●标准库存Standard inventory ○订单生产Order production

JIS BSW Straight Fluted Taps (Hand Taps)
JIS 英制细牙手用丝攻系列

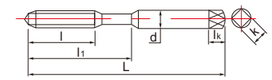
BSW JIS Straight Flute 直槽 HSS 6H 55° 切刃牙 2.5



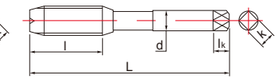
- 适用被切削材料：铸铁、青铜、铸铝、中低碳钢、模具钢。
- Suitable for cutting materials: cast iron, bronze, cast aluminum, medium Low carbon steel, die steel.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3



型号 Model	库存 Stock	英制牙(BSW) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	Type	Flutes
TNH-3/16-32BSF-HT-BE-J	○	3/16-32	4.762	60	16	25	5.5	4.5	7	2	3
TNH-7/32-28BSF-HT-BE-J	○	7/32-28	5.556	60	16	25	5.5	4.5	7	2	3
TNH-1/4-28BSF-HT-BE-J	○	1/4-28	6.350	62	19	30	6.0	4.5	7	3	3
TNH-5/16-22BSF-HT-BE-J	○	5/16-22	7.938	70	22		6.1	5.0	8	3	4
TNH-3/8-20BSF-HT-BE-J	○	3/8-20	9.525	75	24		7.0	5.5	8	3	4
TNH-7/16-18BSF-HT-BE-J	○	7/16-18	11.112	80	25		8.0	6.0	9	3	4
TNH-1/2-16BSF-HT-BE-J	○	1/2-16	12.700	85	29		9.0	7.0	10	3	4
TNH-9/16-16BSF-HT-BE-J	○	9/16-16	14.288	90	30		10.5	8.0	11	3	4
TNH-5/8-14BSF-HT-BE-J	○	5/8-14	15.825	95	32		12.0	9.0	12	3	4
TNH-3/4-12BSF-HT-BE-J	○	3/4-12	1 9.050	105	32		14.0	11.0	14	3	4
TNH-7/8-11BSF-HT-BE-J	○	7/8-11	22.225	115	37		17.0	13.0	16	3	4
TNH-1-10BSF-HT-BE-J	○	1-10	25.400	125	38		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

可分为英制与美制二大类，都用寸，为推拔螺纹与
Can be divided into British and American two categories, with inches, for pushing and pulling thread and

平行螺纹的组合，如外螺纹、内螺纹都用推拔者或
A combination of parallel threads, such as external threads and internal threads, with a puller or

者平行者，对推拔外螺纹使用平行内螺纹者英制的
Parallel thread, for push-pull thread using parallel internal thread in inch system

螺纹角与惠氏螺纹系相同为55°，JIS定PT，PS，
Thread Angle and Wyeth thread is the same as 55°, JIS PT, PS,

Pf等规格，在国际间普遍被采用。美制者，凡是首
Pf and other specifications are widely adopted internationally. Made in the United States, all the first

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
If the thread Angle is 60°, it will not be used by JIS or ISO. If the thread Angle is 60°, it will be used by JIS or ISO

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
Names for pipe threads used in various places for various purposes. The meter system was developed in west Germany in 1954 in 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.

ISO 2284 Straight Fluted Parallel Pipe Taps
ISO 2284直管螺纹直槽系列

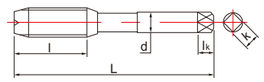
BSPG (PF) | ISO 2284 | Straight Flute 直槽 | HSS | ISO 2 6H | 55° | 切刃牙 2.5

- 适用于管用内螺纹加工。
- 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.



TYPE:3



型号 Model	库存 Stock	英制平行管牙(BSPG) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	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

NPS | ISO 2284 | Straight Flute 直槽 | HSS | ISO 2 6H | 60° | 切刃牙 2.5

型号 Model	库存 Stock	美制平行管牙(NPS) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	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(1/2)NPS-HTT-I	○	1-11(1/2)	33.228	109	33		25.0	20.0	24	3	4
TNH-1(1/4)-11(1/2)NPS-HT-I	○	1(1/4)-11(1/2)	41.986	119	36		31.5	25.0	28	3	6
TNH-1(1/2)-11(1/2)NPS-HT-I	○	1(1/2)-11(1/2)	48.054	125	37		35.5	28.0	31	3	6

●标准库存Standard inventory ○订单生产Order production

ISO 2284 Straight Fluted Taper Pipe Taps
ISO 2284锥管螺纹直槽系列

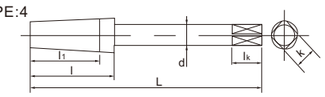
BSPT (Rc) | ISO 2284 | Straight Flute 直槽 | HSS | ISO 2 6H | 55° | 切刃牙 2.5

- 适用于管用内螺纹加工。
- 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.



TYPE:4



型号 Model	库存 Stock	英制斜度管牙(BSPT) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	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

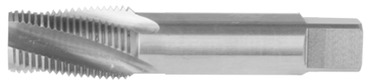
NPT | ISO 2284 | Straight Flute 直槽 | HSS | ISO 2 6H | 60° | 切刃牙 2.5

型号 Model	库存 Stock	美制斜度管牙(NPT) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l_1	d	k	l_k	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(1/2)NPT-HT-I	○	1-11(1/2)	33.228	109	33	17.2	25.0	20.0	24	4	4
TNH-1(1/4)-11(1/2)NPT-HT-I	○	1(1/4)-11(1/2)	41.986	119	36	17.4	31.5	25.0	28	4	6
TNH-1(1/2)-11(1/2)NPT-HT-I	○	1(1/2)-11(1/2)	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 Spiral Fluted Taper Pipe Taps
JIS英制锥管螺旋槽系列

PT | JIS | 35° | HSS | ISO 2 6H | 55° | 切刃牙 2.5

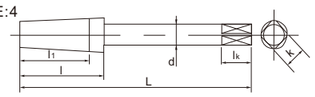


- T801适用于极密性结合为目的内螺纹加工，
  T804适用于机械结合为目的内螺纹加工。
- 抗拉强度850N/MM^{2}以下模具钢、碳钢、
  铜铝合金。

- 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.

TYPE:4



型号 Model	库存 Stock	英制斜度管牙(PT) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	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

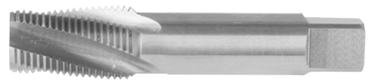
NPT | JIS | 35° | HSS | ISO 2 6H | 60° | 切刃牙 2.5

型号 Model	库存 Stock	美制斜度管牙(NPT) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	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(1/2)NPT-POT-J	○	1-11(1/2)	32.934	95	45	27.40	26	21	24	4	4

●标准库存Standard inventory ○订单生产Order production

JIS Spiral Fluted Parallel Pipe Taps
JIS直管螺旋槽系列

PS (Rp) | JIS | 35° | HSS | ISO 2 6H | 55° | 切刃牙 2.5

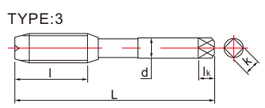


- T802适用于极密性结合为目的内螺纹加工，
  T803适用于机械结合为目的内螺纹加工。
- 抗拉强度850N/MM^{2}以下模具钢、碳钢、
  铜铝合金。

- 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) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	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-1(1/4)-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

PF | JIS | 35° | HSS | ISO 2 6H | 55° | 切刃牙 2.5

型号 Model	库存 Stock	美制斜度管牙(NPT) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	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-1(1/4)-11NPT-SFT-J	○	1(1/4)-11	41.910	105	45		32	26	30	3	4

●标准库存Standard inventory ○订单生产Order production

JIS Metric Spiral Fluted Taps, Long Shank
JIS公制加长螺旋槽系列

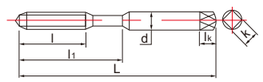
M JIS 35° HSS-E 6H 60° 切刃牙 2.5



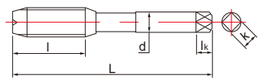
- 适用于深孔螺纹加工。
- Suitable for deep hole thread machining.

通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3



● 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

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

● 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

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-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

● 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-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 Spiral Pointed Taps (Gun-nose Taps), Long Shank
JIS公制加长先端系列

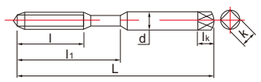
M JIS 35° HSS-E 6H 60° 切刃牙 2.5



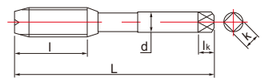
- 适用于深孔螺纹加工。
- Suitable for deep hole thread machining.

通孔加工
Through Hole

TYPE:2



TYPE:3



● 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

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

● 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

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-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

● 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-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 Metric Spiral Fluted Taps
DIN 371/376公制螺旋槽系列

M | DN | 35° | HSS-E | 6H | 60° | 切刃牙 2.5

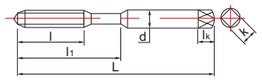
- 抗拉强度600-900N/MM^{2}的高碳钢镍基合金、合金工具、青铜、铸铁等。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝、镁合金。

- 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.

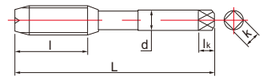


通/盲孔
加工皆适
Through hole
Blind hole

TYPE:2



TYPE:3



型号 Model T101	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l_1	d	k	l_k	Type	Flutes
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 Metric Spiral Pointed Taps (Gun-nose Taps)
DIN 371/376公制先端系列

M | DN | Straight Flute 直槽 | HSS-E | 6H | 60° | 切刃牙 5

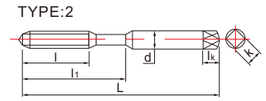
- 抗拉强度600-900N/MM^{2}的高碳钢镍基合金、合金工具、青铜、铸铁等。
- 抗拉强度750N/MM^{2}以下中低碳钢、铜、铝、镁合金。

- 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.

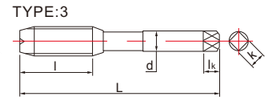


通孔加工
Through hole

TYPE:2



TYPE:3



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)							
		Size	Pitch	L	l	l_1	d	k	l_k	Type	Flutes
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 Metric Carbide Straight Fluted Taps (Hand Taps)
JIS日标合金直槽丝攻系列

M | ISO | Straight fluted 直槽 | Carbide | 6H | 60° | 切刃牙 2.5

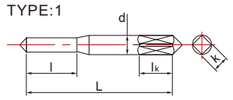


● 用于普通铸铁，强韧性铸铁，热硬化性树脂黄铜铸件，加工精度高，适合大批量加工

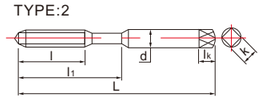
● Suitable for high production with high precision in automatic machines , It is ideal for tapping materials such as ordinary cast iron ,ductile cast iron , thermosetting plastics and brass castings.

通/盲孔
加工皆适
Through hole
Blind hole

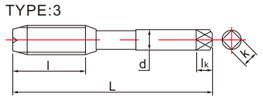
TYPE:1



TYPE:2



TYPE:3



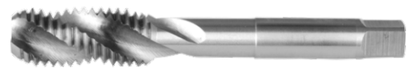
型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						重量 Weight g
		Size	Pitch	L	l	d	k	l_k	Type	
TNC-M0.8X0.2-OTT-J	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M0.9X0.225-OTT-J	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M1.0X0.25-OTT-J	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.2X0.25-OTT-J	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.4X0.3-OTT-J	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M1.6X0.35-OTT-J	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M2.0X0.4-OTT-J	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	4
TNC-M2.5X0.45-OTT-J	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	5
TNC-M3.0X0.5-OTT-J	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	7
TNC-M3.5X0.6-OTT-J	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	10
TNC-M4.0X0.7-OTT-J	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	13
TNC-M5X0.8-OTT-J	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	18
TNC-M6X1.0-OTT-J	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	21
TNC-M8X1.25-OTT-J	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	30
TNC-M8X1.0-OTT-J	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	30
TNC-M10X1.5-OTT-J	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	43
TNC-M10X1.25-OTT-J	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	43
TNC-M10X1.0-OTT-J	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	43
TNC-M12X1.75-OTT-J	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	68
TNC-M12X1.5-OTT-J	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.25-OTT-J	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.0-OTT-J	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	68
TNC-M14X2.0-OTT-J	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	72
TNC-M14X1.5-OTT-J	○	M14	1.5	88	30.0	11.2	9.0	12.0		72
TNC-M14X1.25-OTT-J	○	M14	1.25	88	25.0	11.2	9.0	12.0		72
TNC-M14X1.0-OTT-J	○	M14	1.0	88	20.0	11.2	9.0	12.0		72
TNC-M16X2.0-OTT-J	○	M16	2.0	95	32.0	12.5	10.0	13.0		102
TNC-M16X1.5-OTT-J	○	M16	1.5	95	28.0	12.5	10.0	13.0		102
TNC-M16X1.0-OTT-J	○	M16	1.0	95	20.0	12.5	10.0	13.0		102

●标准库存Standard inventory ○订单生产Order production

JIS Metric Carbide Spiral Fluted Taps
JIS日标合金螺旋丝攻系列

M | ISO | Spiral fluted 螺旋 | Carbide | 6H | 60° | 切刃牙 2.5

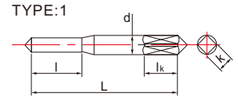
● 适用于铝合金，镁合金，铜合金，热可塑性塑料的盲孔高精度加工。



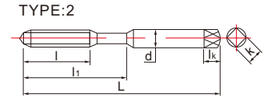
● This tap is suitable for numerous operations with high precision in automatic machines. it is ideal for tapping materials such as aluminum alloys, magnesium alloys , copper alloys and thermoplastics.

通/盲孔
加工皆适
Through hole
Blind hole

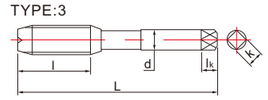
TYPE:1



TYPE:2



TYPE:3



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						重量 Weight g
		Size	Pitch	L	l	d	k	l_k	Type	
TNC-M0.8X0.2-SFT-J	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M0.9X0.225-SFT-J	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M1.0X0.25-SFT-J	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.2X0.25-SFT-J	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.4X0.3-SFT-J	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M1.6X0.35-SFT-J	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M2.0X0.4-SFT-J	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	4
TNC-M2.5X0.45-SFT-J	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	5
TNC-M3.0X0.5-SFT-J	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	7
TNC-M3.5X0.6-SFT-J	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	10
TNC-M4.0X0.7-SFT-J	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	13
TNC-M5X0.8-SFT-J	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	18
TNC-M6X1.0-SFT-J	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	21
TNC-M8X1.25-SFT-J	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	30
TNC-M8X1.0-SFT-J	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	30
TNC-M10X1.5-SFT-J	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	43
TNC-M10X1.25-SFT-J	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	43
TNC-M10X1.0-SFT-J	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	43
TNC-M12X1.75-SFT-J	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	68
TNC-M12X1.5-SFT-J	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.25-SFT-J	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.0-SFT-J	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	68
TNC-M14X2.0-SFT-J	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	72
TNC-M14X1.5-SFT-J	○	M14	1.5	88	30.0	11.2	9.0	12.0		72
TNC-M14X1.25-SFT-J	○	M14	1.25	88	25.0	11.2	9.0	12.0		72
TNC-M14X1.0-SFT-J	○	M14	1.0	88	20.0	11.2	9.0	12.0		72
TNC-M16X2.0-SFT-J	○	M16	2.0	95	32.0	12.5	10.0	13.0		102
TNC-M16X1.5-SFT-J	○	M16	1.5	95	28.0	12.5	10.0	13.0		102
TNC-M16X1.0-SFT-J	○	M16	1.0	95	20.0	12.5	10.0	13.0		102

●标准库存Standard inventory ○订单生产Order production

JIS Metric Carbide Spiral Pointed Taps (Gun-nose Taps)
JIS日标合金先端丝攻系列

M ISO Spiral pointed 先端 Carbide 6H 60° 切刃牙 2.5

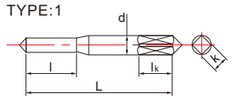
● 用于普通铸铁，强韧性铸铁，热硬化性树脂黄铜铸件，加工精度高，适合大批量加工

● 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.

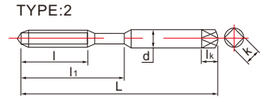


通孔加工
Through hole

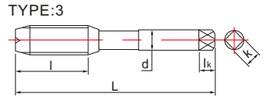
TYPE:1



TYPE:2



TYPE:3



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						重量 Weight g
		Size	Pitch	L	l	d	k	lk	Type	
TNC-M0.8X0.2-POT-J	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M0.9X0.225-POT-J	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M1.0X0.25-POT-J	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.2X0.25-POT-J	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.4X0.3-POT-J	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M1.6X0.35-POT-J	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M2.0X0.4-POT-J	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	4
TNC-M2.5X0.45-POT-J	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	5
TNC-M3.0X0.5-POT-J	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	7
TNC-M3.5X0.6-POT-J	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	10
TNC-M4.0X0.7-POT-J	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	13
TNC-M5X0.8-POT-J	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	18
TNC-M6X1.0-POT-J	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	21
TNC-M8X1.25-POT-J	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	30
TNC-M8X1.0-POT-J	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	30
TNC-M10X1.5-POT-J	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	43
TNC-M10X1.25-POT-J	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	43
TNC-M10X1.0-POT-J	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	43
TNC-M12X1.75-POT-J	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	68
TNC-M12X1.5-POT-J	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.25-POT-J	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.0-POT-J	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	68
TNC-M14X2.0-POT-J	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	72
TNC-M14X1.5-POT-J	○	M14	1.5	88	30.0	11.2	9.0	12.0		72
TNC-M14X1.25-POT-J	○	M14	1.25	88	25.0	11.2	9.0	12.0		72
TNC-M14X1.0-POT-J	○	M14	1.0	88	20.0	11.2	9.0	12.0		72
TNC-M16X2.0-POT-J	○	M16	2.0	95	32.0	12.5	10.0	13.0		102
TNC-M16X1.5-POT-J	○	M16	1.5	95	28.0	12.5	10.0	13.0		102
TNC-M16X1.0-POT-J	○	M16	1.0	95	20.0	12.5	10.0	13.0		102

●标准库存Standard inventory ○订单生产Order production

JIS Metric Carbide Forming Taps
JIS日标合金挤压丝攻系列

M ISO Carbide 6H 60° 切刃牙 2.5



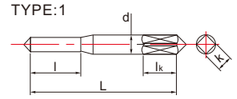


● 适用于铝合金，镁合金，铜合金的大量高精度的加工，塑料变形无切屑，能稳定连续加工。

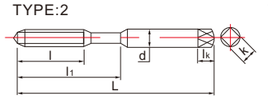
● Suitable for high production with high precision in automatic machines, this tap is ideal for tapping materials such as aluminum alloys, magnesium alloys and copper alloys, stable and continuous operation is possible because no chips are generated during deformation

通/盲孔
加工皆适
Through hole
Blind hole

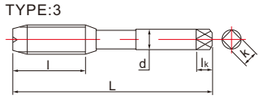
TYPE:1



TYPE:2



TYPE:3



型号 Model	库存 Stock	公制牙(M)		尺寸 Dimensions(mm)						重量 Weight g
		Size	Pitch	L	l	d	k	lk	Type	
TNC-M0.8X0.2-NRT-J	○	M0.8	0.2	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M0.9X0.225-NRT-J	○	M0.9	0.225	38/45	4.5	3.0	2.5	5.0	2	4
TNC-M1.0X0.25-NRT-J	○	M1.0	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.2X0.25-NRT-J	○	M1.2	0.25	38/45	5.0	3.0	2.5	5.0	2	4
TNC-M1.4X0.3-NRT-J	○	M1.4	0.3	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M1.6X0.35-NRT-J	○	M1.6	0.35	38/45	6.0	3.0	2.5	5.0	2	4
TNC-M2.0X0.4-NRT-J	○	M2.0	0.4	45	7.0	3.0	2.5	5.0	2	4
TNC-M2.5X0.45-NRT-J	○	M2.5	0.45	45	8.0	3.0	2.5	5.0	2	5
TNC-M3.0X0.5-NRT-J	○	M3.0	0.5	45	9.0	3.2	2.5	5.0	3	7
TNC-M3.5X0.6-NRT-J	○	M3.5	0.6	45	10.0	3.6	2.8	5.0	3	10
TNC-M4.0X0.7-NRT-J	○	M4.0	0.7	52	11.0	4.0	3.2	6.0	3	13
TNC-M5X0.8-NRT-J	○	M5	0.8	55	15.0	5.0	4.0	7.0	3	18
TNC-M6X1.0-NRT-J	○	M6	1.0	64	17.0	6.0	4.5	7.0	3	21
TNC-M8X1.25-NRT-J	○	M8	1.25	70	19.0	6.2	5.0	8.0	3	30
TNC-M8X1.0-NRT-J	○	M8	1.0	70	19.0	6.2	5.0	8.0	3	30
TNC-M10X1.5-NRT-J	○	M10	1.5	75	23.0	8.0	6.3	9.0	3	43
TNC-M10X1.25-NRT-J	○	M10	1.25	75	19.0	8.0	6.3	9.0	3	43
TNC-M10X1.0-NRT-J	○	M10	1.0	75	19.0	8.0	6.3	9.0	3	43
TNC-M12X1.75-NRT-J	○	M12	1.75	82	28.0	9.0	7.1	10.0	3	68
TNC-M12X1.5-NRT-J	○	M12	1.5	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.25-NRT-J	○	M12	1.25	82	25.0	9.0	7.1	10.0	3	68
TNC-M12X1.0-NRT-J	○	M12	1.0	82	20.0	9.0	7.1	10.0	3	68
TNC-M14X2.0-NRT-J	○	M14	2.0	88	32.0	11.2	9.0	12.0	3	72
TNC-M14X1.5-NRT-J	○	M14	1.5	88	30.0	11.2	9.0	12.0		72
TNC-M14X1.25-NRT-J	○	M14	1.25	88	25.0	11.2	9.0	12.0		72
TNC-M14X1.0-NRT-J	○	M14	1.0	88	20.0	11.2	9.0	12.0		72
TNC-M16X2.0-NRT-J	○	M16	2.0	95	32.0	12.5	10.0	13.0		102
TNC-M16X1.5-NRT-J	○	M16	1.5	95	28.0	12.5	10.0	13.0		102
TNC-M16X1.0-NRT-J	○	M16	1.0	95	20.0	12.5	10.0	13.0		102

●标准库存Standard inventory ○订单生产Order production

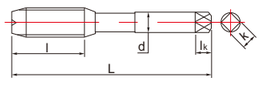
JIS Carbide Spiral Fluted Pipe Taps
JIS管螺纹合金丝攻系列

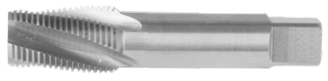
PS (Rp) | JIS | Straight fluted 直槽 | Carbide | ISO 2 6H | 55° | 切刃牙 2.5

- 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/MM^{2}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) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	d	k	lk	Type	价格 Price ¥	重量 Weight g
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	1 6.662	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-1(1/4)-11PS-OTT-J	○	1(1/4)-11	41.910	105	45	32	26	30	3		

●标准库存Standard inventory ○订单生产Order production

PF | JIS | Straight fluted 直槽 | Carbide | ISO 2 6H | 55° | 切刃牙 2.5

型号 Model	库存 Stock	美制斜度管牙(NPT) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	d	k	lk	Type	价格 Price ¥	重量 Weight g
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-3/4-14PNT-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-1(1/4)-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

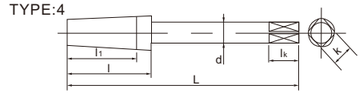
JIS Carbide Spiral Fluted Pipe Taps, for Short Thread
JIS管螺纹合金短刃螺旋槽丝攻系列

PT | JIS | Straight Flute 直槽 | Carbide | 6H | 55° | 切刃牙 2.5

- 适用被切削材料：适用于以紧密结合为目的推拔形内管螺纹加工。
- 抗拉强度850N/MM^{2}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) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	Type	Flutes
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

NPT | JIS | Straight Flute 直槽 | Carbide | 6H | 60° | 切刃牙 2.5

型号 Model	库存 Stock	美制斜度管牙(NPT) Size	Basic Major Dia.	尺寸 Dimensions(mm) L	l	l1	d	k	lk	Type	Flutes
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(1/2)NPT-SFT-L-J	○	1-11(1/2)	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

KOVES® 科维丝工具

ENQUIRY

日期 DATE

填表人 Applicant

客户单位 Customer Company

联系人 Name

电话 TEL

刀具名称 Request tool

图号 Part No.

规格Specification

机床 Machine	机床名称: Machine Name				
	★机床类型：☐数控车 Machine type: CNC Lathe ☐立式加工中心 Vertical machining center ☐卧式加工中心 Horizontal machining center ☐专机 Special machine ☐其他 Other machine				
	★夹柄型号：☐热膨胀夹头 Holder type: Shrink fit chuck ☐液压夹头 Hydraulic chuck ☐弹簧夹头 Collet chuck ☐侧固式 Side lock chuck ☐专用丝锥夹头 Special taps chuck ☐钻夹头 Drill chuck ☐其他 Others				
	★机床主轴类型：☐BT30 ☐BT40 ☐BT50 ☐HSK ☐其他 Machine Spindle Type Others				
	★冷却类型： ☐ 内冷 Cooling type: internal cooling ☐外冷 external cooling ☐干式切削 dry cutting			机床冷却压力： Machine Cooling pressure	
加工工艺 Processing technic	★工件材料： Workpiece Material ★硬度： Hardness ★加工表面状态 Machined surface ☐毛坯表面 Base Surface ☐已加工过表面 Machined Surface ★是否干涉 Interference ☐无 NO ☐干涉 干涉长___mm Interference Length NO Interference Length Turning Boring Milling Forming ☐钻孔 Drilling ☐扩孔 Enlargement hole ☐铰孔 Reaming ☐复合加工 Compound machining ☐攻丝 Tapping ☐铣槽 Grooving ☐三维加工 3D machining ☐其他 Others ★工况 Working condition ☐通孔 Through hole ☐盲孔 Blind hole ☐平面 Flat ☐外圆 External ☐成型表面 Forming surface ★ 产品加工状况 Product processing status 预孔 Hole ☐无 No ☐有 D___mm孔，切削余量 Yes Hole Cutting allowance 中间是否有断差孔、斜孔 Is there a gap hole or a slant hole in the mi ☐无 No ☐有 Yes ☐断续 Intermittent ★孔要求 Hole requirement 孔/外圆（直径） Inner/Outter Diameter 孔深度 Hole Depth 质量（公差、表面粗糙度、直线度）见右图 Quality (tolerance, surface roughness, straightness) See right			★提供零件简图 Workpiece Picture	
应用 Application	★客户对刀具耐用度要求： Customer requirements for tool durability:				
	目前客户使用状况Current customer usage	新产品 New Products	☐ 是 Yes 参数是否由我司提供 Condition provide by our Company ☐ 不是 NO 请填写替换刀具内容 Please write replace tool details as below		
		替换刀具 Replace tool	刀具品牌： Tool Brand	★寿命 Tool Life	★进给fn（mm/rev Feederate
			切削速度Vc（m/min） Cutting Speed	★转速n(r/min） Rotation Speed	
			★失效形式 Invalid Mode		
申请人 Applicant:		销售主管 Sales Executive:		技术主管 Technical director:	

备注：打★为必填项目

Remark：★ Necessary filling item

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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!



