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WINTEND

SPECIALIZED FACTORY
FOR MANUFACTURING CUTTING TOOLS

元韬(常州)精密切削技术有限公司
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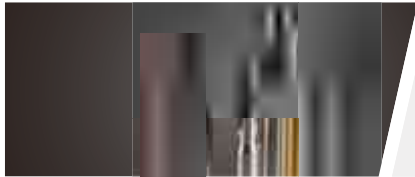
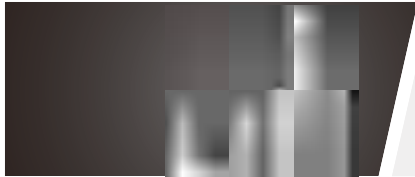
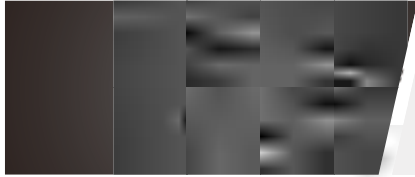
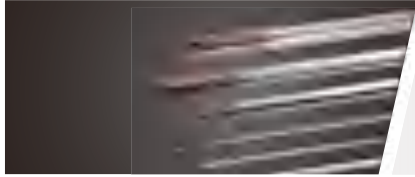
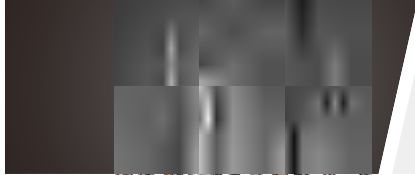


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	顶角90° Point Angle 90°
	顶角120° Point Angle 120°
	顶角130° Point Angle 130°
	顶角140° Point Angle 140°
	顶角150° Point Angle 140°
	顶角180° Point Angle 180°
	柄部直径公差 Shank Diameter Tolerance
	刃部直径公差 Edge Diameter Tolerance
	内冷 With Coolant
	外冷 Without Coolant
	齿数为6刃 Number of Teeth Z=6
	齿数为5刃 Number of Teeth Z=5
	齿数为4刃 Number of Teeth Z=4
	齿数为3刃 Number of Teeth Z=3
	齿数为2刃 Number of Teeth Z=2
	保护型刀尖 Protective Type Tool Nose
	尖角型刀尖 Cusp Type Tool Nose
	圆鼻铣刀 Corner Radius End Mill
	球头铣刀 Ball Nose End Mill
	倒角铣刀 Chamfer Mill
	等分螺旋角15° Equal Helical Angle 15°
	等分螺旋角30° Equal Helical Angle 30°
	等分螺旋角35° Equal Helical Angle 35°
	等分螺旋角38° Equal Helical Angle 38°
	等分螺旋角40° Equal Helical Angle 40°
	等分螺旋角45° Equal Helical Angle 45°
	不等分螺旋角28/31° Unequal Helical Angle 28/31°
	不等分螺旋角35/38° Unequal Helical Angle 35/37°
	不等分螺旋角38/41° Unequal Helical Angle 38/41°
	不等分螺旋角43/45° Unequal Helical Angle 43/45°

	Extra-long
	Long
	Extra-short
	35°Spiral
	45°Spiral
	Anti-clockwise rotation
	Reinforced
	Thin
	3.5-5h
	1.5-2h
	6-8h
	3.5-5h Corrected entry
	2-3h
	2A Tolerance
	2B Tolerance
	6H Tolerance
	6HX Tolerance
	6H+0.1 Tolerance
	6G Tolerance
	"Gun" Bushing
	Blind
	Bushing
	Threaded by lamination

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ENTERPRISE INTRODUCTION

企业介绍

元韬精密是专业从事高品质精密金属切削刀具的制造和修磨服务公司。产品有硬质合金刀具和超硬刀具，如硬质合金钻头、铰刀、铣刀、丝锥和PCD/CBN刀具。公司现拥有德国舒特 Schütte、瓦尔特 Walter、孚尔默 VOLLMER、哈威玛HAWEMA等五轴数控磨床十余台，引进德国ZOLLER刀具检测仪及PG1000刀具几何参数测量仪。产品被广泛应用于汽车制造、航空航天、船舶制造、制冷设备、机械工程、电子电器、模具加工等领域。我司与国内诸多知名企业有着长期紧密的合作，在针对高速高硬度和难切削材料的加工领域积累了丰富的经验。

Specialized Factory For Manufacturing Cutting Tools

经过多年的努力和奋斗，我厂通过了ISO9001质量体系认证。我们的产品销往世界各地，进出口额达一千多万美元。
我们的信念是：高品质的产品源自科学的管理及严格的质量控制体系和良好的服务。

Our sheer hard work and struggles have helped us to acquire the certificate of ISO certification ISO9001 in quality management system. Our products have markets all over the world and at the moment, our exports are slightly over 10 million US dollars.
We maintain our faith as having high quality products founded on excellent scientific management, extemporary services, and efficient quality control systems.



AUTOMOBILE INDUSTRY

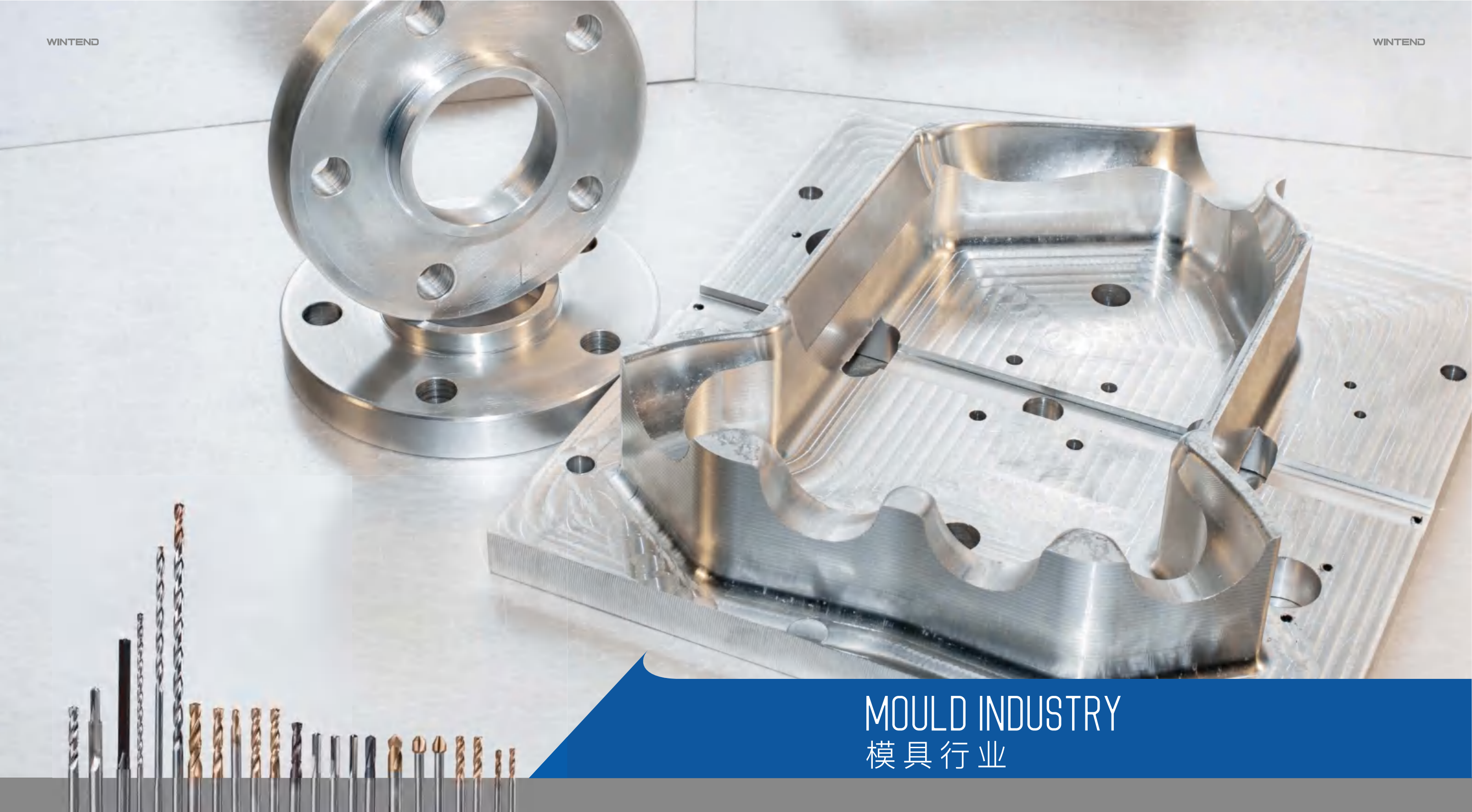
汽车行业



AVIATION INDUSTRY

航空行业





MOULD INDUSTRY

模具行业



MEDICAL INDUSTRY

医疗行业



PRECISIONMACHINING INDUSTRY
3C 行业

15	Carbide Drill Model Description	硬质合金麻花钻型号说明
16	Universal Drill	通用麻花钻
40	Stainless Steel Drill	不锈钢专用麻花钻
64	Heat-resistant Alloy Drill	耐热合金专用麻花钻
76	Aluminum Alloy Drill	铝合金麻花钻
88	Three Flutes Drill	三刃钻
92	Spotting Drill	定心钻
93	Bottoming Drill	平底钻
97	Pilot Drill	引导钻
99	Straight Flute Drill	直槽钻
103	Power Drill	强力钻

CARBIDE DRILL 硬质合金钻头

硬质合金麻花钻型号说明

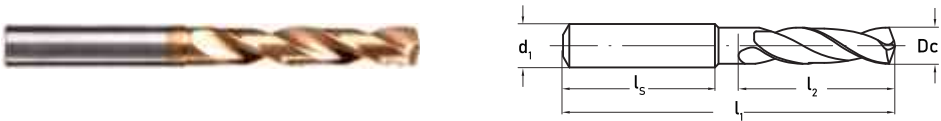
Carbide Drill Model Description

D	U	01	A	-	N	A	-	02	-	03000
1	2	3	4		5	6		7		8

1	2	3
Tool group 刀具组	Drill type 刀具类型	Tool name 刀具品名
D Drilling(麻花钻)	U Universal (通用型) M Stainless steel(不锈钢型) N Aluminum alloy(铝合金型) S Superalloy(高温合金型) H Hard alloy(高硬型) P Steel(钢件型) K Casting(铸铁型)	01 Spiral drill 螺旋钻 02 Straight flute drill 直槽钻 03 Three flutes drill 三刃钻 04 Power drill 强力钻 05 Spotting drill 定心钻 06 Step drill 阶梯钻 07 Deep hole drill 深孔钻 09 Center drill 中心钻 10 Bottoming drill 平底钻 11 Pilot drill 引导钻

4	5	6	7	8
Codename 代次	Coolant 冷却	Tool shank type 刀柄类型	Drill depth 钻深	Diameter 刀具刃径
	C With coolant 内冷 N Without coolant 外冷	A Round Shank 圆直柄 B Weldon Shank 削平柄 E Bevel Shank 斜削柄 M Taper Shank 莫氏锥柄	02 ≈2 x Dc 03 ≈3 x Dc 05 ≈5 x Dc 08 ≈8 x Dc	

Drill 通用麻花钻 Universal drill



产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole	
	Dc	Dc Inch/No.	l ₁	l ₂	l ₃	d ₁	切削丝锥 Cutting tap	挤压丝锥 Forming tap
DU01A-NA-03-03000	3.0		62	20	36	6		NO.6-40UNF
DU01A-NA-03-03100	3.1		62	20	36	6		
DU01A-NA-03-03175	3.175	1/8"	62	20	36	6		
DU01A-NA-03-03200	3.2		62	20	36	6	M3.5 x 0.35	M3.5 x 0.6
DU01A-NA-03-03300	3.3		62	20	36	6	M4 x 0.7	
DU01A-NA-03-03400	3.4		62	20	36	6		NO.8-32UNC
DU01A-NA-03-03500	3.5		62	20	36	6	M4 x 0.5	NO.8-36UNF
DU01A-NA-03-03572	3.572	9/64"	62	20	36	6		
DU01A-NA-03-03600	3.6		62	20	36	6		
DU01A-NA-03-03700	3.7		62	20	36	6		
DU01A-NA-03-03800	3.8		66	24	36	6	M4.5 x 0.75	M4 x 0.7
DU01A-NA-03-03900	3.9		66	24	36	6		M4 x 0.5
DU01A-NA-03-03969	3.969	5/32"	66	24	36	6	NO.10-24UNC	
DU01A-NA-03-04000	4.0		66	24	36	6		
DU01A-NA-03-04100	4.1		66	24	36	6		NO.10-32UNF
DU01A-NA-03-04200	4.2		66	24	36	6		
DU01A-NA-03-04300	4.3		66	24	36	6	M5 x 0.8	
DU01A-NA-03-04366	4.366	11/64"	66	24	36	6		
DU01A-NA-03-04400	4.4		66	24	36	6		
DU01A-NA-03-04500	4.5		66	24	36	6	M5 x 0.5	NO.12-24UNC
DU01A-NA-03-04600	4.6		66	24	36	6		NO.12-28UNF
DU01A-NA-03-04700	4.7		66	24	36	6		NO.12-32UNEF
DU01A-NA-03-04763	4.763	3/16"	66	28	36	6		
DU01A-NA-03-04800	4.8		66	28	36	6		M5 x 0.5
DU01A-NA-03-04900	4.9		66	28	36	6		
DU01A-NA-03-05000	5.0		66	28	36	6	M6 x 1	
DU01A-NA-03-05100	5.1		66	28	36	6		1/4-20UNC
DU01A-NA-03-05159	5.159	13/64"	66	28	36	6		
DU01A-NA-03-05200	5.2		66	28	36	6		
DU01A-NA-03-05300	5.3		66	28	36	6	M6 x 0.75	
DU01A-NA-03-05400	5.4		66	28	36	6		
DU01A-NA-03-05500	5.5		66	28	36	6		1/4-28UNF
DU01A-NA-03-05556	5.556	7/32"	66	28	36	6		
DU01A-NA-03-05600	5.6		66	28	36	6		1/4-32UNEF
DU01A-NA-03-05700	5.7		66	28	36	6		M6 x 1
DU01A-NA-03-05800	5.8		66	28	36	6		M6 x 0.75
DU01A-NA-03-05900	5.9		66	28	36	6		
DU01A-NA-03-05953	5.953	15/64"	66	28	36	6		
DU01A-NA-03-06000	6.0		66	28	36	6	M7 x 1	
DU01A-NA-03-06100	6.1		79	34	36	8		
DU01A-NA-03-06200	6.2		79	34	36	8		
DU01A-NA-03-06300	6.3		79	34	36	8	M7 x 0.75	
DU01A-NA-03-06350	6.35	1/4"	79	34	36	8		
DU01A-NA-03-06400	6.4		79	34	36	8		
DU01A-NA-03-06500	6.5		79	34	36	8		
DU01A-NA-03-06600	6.6		79	34	36	8		5/16-18UNC
DU01A-NA-03-06700	6.7		79	34	36	8		M7 x 1
								M7 x 0.75

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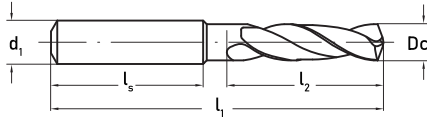
产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DU01A-CA-08-16000	16.0		204	152	48	16	M18 x 2		
DU01A-CA-08-16100	16.1		223	171	48	18			
DU01A-CA-08-16200	16.2		223	171	48	18			
DU01A-CA-08-16300	16.3		223	171	48	18			
DU01A-CA-08-16400	16.4		223	171	48	18			
DU01A-CA-08-16500	16.5		223	171	48	18	M18 x 1.5		
DU01A-CA-08-16600	16.6		223	171	48	18		3/4-10UNC	
DU01A-CA-08-16700	16.7		223	171	48	18			
DU01A-CA-08-16800	16.8		223	171	48	18			M18 x 2.5
DU01A-CA-08-16900	16.9		223	171	48	18			
DU01A-CA-08-17000	17.0		223	171	48	18			M18 x 2.5
DU01A-CA-08-17100	17.1		223	171	48	18			
DU01A-CA-08-17200	17.2		223	171	48	18			
DU01A-CA-08-17300	17.3		223	171	48	18			M18 x 1.5
DU01A-CA-08-17400	17.4		223	171	48	18			
DU01A-CA-08-17500	17.5		223	171	48	18	M20 x 2.5	3/4-16UNF	
DU01A-CA-08-17600	17.6		223	171	48	18			
DU01A-CA-08-17700	17.7		223	171	48	18			
DU01A-CA-08-17800	17.8		223	171	48	18		3/4-20UNEF	
DU01A-CA-08-17900	17.9		223	171	48	18			
DU01A-CA-08-18000	18.0		223	171	48	18	M20 x 2		
DU01A-CA-08-18100	18.1		244	190	50	20			
DU01A-CA-08-18200	18.2		244	190	50	20			
DU01A-CA-08-18300	18.3		244	190	50	20			
DU01A-CA-08-18400	18.4		244	190	50	20			
DU01A-CA-08-18500	18.5		244	190	50	20	M20 x 1.5		
DU01A-CA-08-18600	18.6		244	190	50	20			
DU01A-CA-08-18700	18.7		244	190	50	20			
DU01A-CA-08-18800	18.8		244	190	50	20			
DU01A-CA-08-18900	18.9		244	190	50	20			M20 x 2.5
DU01A-CA-08-19000	19.0		244	190	50	20	M20 x 1		
DU01A-CA-08-19050	19.05	3/4"	244	190	50	20			
DU01A-CA-08-19100	19.1		244	190	50	20			
DU01A-CA-08-19200	19.2		244	190	50	20			
DU01A-CA-08-19300	19.3		244	190	50	20			M20 x 1.5
DU01A-CA-08-19400	19.4		244	190	50	20			
DU01A-CA-08-19500	19.5		244	190	50	20	M22 x 2.5		
DU01A-CA-08-19600	19.6		244	190	50	20		7/8-9UNC	
DU01A-CA-08-19700	19.7		244	190	50	20			
DU01A-CA-08-19800	19.8		244	190	50	20			
DU01A-CA-08-19900	19.9		244	190	50	20			
DU01A-CA-08-20000	20.0		244	190	50	20	M22 x 2		

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel		预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC	○	◎		○	○	

◎ 非常适合 ○ 适合

Drill

不锈钢专用麻花钻 Stainless steel drill



产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DM01A-NA-03-03000	3.0		62	20	36	6		NO.6-40UNF	
DM01A-NA-03-03100	3.1		62	20	36	6			
DM01A-NA-03-03175	3.175	1/8"	62	20	36	6			
DM01A-NA-03-03200	3.2		62	20	36	6	M3.5 x 0.35		M3.5 x 0.6
DM01A-NA-03-03300	3.3		62	20	36	6	M4 x 0.7		
DM01A-NA-03-03400	3.4		62	20	36	6		NO.8-32UNC	
DM01A-NA-03-03500	3.5		62	20	36	6	M4 x 0.5	NO.8-36UNF	
DM01A-NA-03-03572	3.572	9/64"	62	20	36	6			
DM01A-NA-03-03600	3.6		62	20	36	6			
DM01A-NA-03-03700	3.7		62	20	36	6			M4 x 0.7
DM01A-NA-03-03800	3.8		66	24	36	6	M4.5 x 0.75		M4 x 0.5
DM01A-NA-03-03900	3.9		66	24	36	6		NO.10-24UNC	
DM01A-NA-03-03969	3.969	5/32"	66	24	36	6			
DM01A-NA-03-04000	4.0		66	24	36	6			
DM01A-NA-03-04100	4.1		66	24	36	6		NO.10-32UNF	
DM01A-NA-03-04200	4.2		66	24	36	6	M5 x 0.8		
DM01A-NA-03-04300	4.3		66	24	36	6			
DM01A-NA-03-04366	4.366	11/64"	66	24	36	6			
DM01A-NA-03-04400	4.4		66	24	36	6			
DM01A-NA-03-04500	4.5		66	24	36	6	M5 x 0.5	NO.12-24UNC	
DM01A-NA-03-04600	4.6		66	24	36	6		NO.12-28UNF	
DM01A-NA-03-04700	4.7		66	24	36	6		NO.12-32UNEF	
DM01A-NA-03-04763	4.763	3/16"	66	28	36	6			
DM01A-NA-03-04800	4.8		66	28	36	6			M5 x 0.5
DM01A-NA-03-04900	4.9		66	28	36	6			
DM01A-NA-03-05000	5.0		66	28	36	6	M6 x 1		
DM01A-NA-03-05100	5.1		66	28	36	6		1/4-20UNC	
DM01A-NA-03-05159	5.159	13/64"	66	28	36	6			
DM01A-NA-03-05200	5.2		66	28	36	6			
DM01A-NA-03-05300	5.3		66	28	36	6	M6 x 0.75		
DM01A-NA-03-05400	5.4		66	28	36	6			
DM01A-NA-03-05500	5.5		66	28	36	6		1/4-28UNF	
DM01A-NA-03-05556	5.556	7/32"	66	28	36	6			
DM01A-NA-03-05600	5.6		66	28	36	6		1/4-32UNEF	M6 x 1
DM01A-NA-03-05700	5.7		66	28	36	6			M6 x 0.75
DM01A-NA-03-05800	5.8		66	28	36	6			
DM01A-NA-03-05900	5.9		66	28	36	6			
DM01A-NA-03-05953	5.953	15/64"	66	28	36	6			
DM01A-NA-03-06000	6.0		66	28	36	6	M7 x 1		
DM01A-NA-03-06100	6.1		79	34	36	8			
DM01A-NA-03-06200	6.2		79	34	36	8			
DM01A-NA-03-06300	6.3		79	34	36	8	M7 x 0.75		
DM01A-NA-03-06350	6.35	1/4"	79	34	36	8			
DM01A-NA-03-06400	6.4		79	34	36	8			
DM01A-NA-03-06500	6.5		79	34	36	8			
DM01A-NA-03-06600	6.6		79	34	36	8		5/16-18UNC	M7 x 1
DM01A-NA-03-06700	6.7		79	34	36	8			M7 x 0.75

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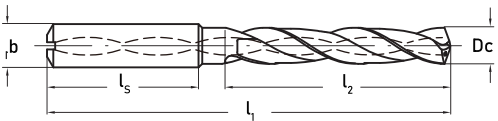
产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DM01A-CA-03-16000	16.0		115	65	48	16	M18 x 2		
DM01A-CA-03-16100	16.1		123	73	48	18			
DM01A-CA-03-16200	16.2		123	73	48	18			
DM01A-CA-03-16300	16.3		123	73	48	18			
DM01A-CA-03-16400	16.4		123	73	48	18			
DM01A-CA-03-16500	16.5		123	73	48	18	M18 x 1.5		
DM01A-CA-03-16600	16.6		123	73	48	18		3/4-10UNC	
DM01A-CA-03-16700	16.7		123	73	48	18			
DM01A-CA-03-16800	16.8		123	73	48	18			M18 x 2.5
DM01A-CA-03-16900	16.9		123	73	48	18			
DM01A-CA-03-17000	17.0		123	73	48	18			M18 x 2.5
DM01A-CA-03-17100	17.1		123	73	48	18			
DM01A-CA-03-17200	17.2		123	73	48	18			
DM01A-CA-03-17300	17.3		123	73	48	18			M18 x 1.5
DM01A-CA-03-17400	17.4		123	73	48	18			
DM01A-CA-03-17500	17.5		123	73	48	18	M20 x 2.5	3/4-16UNF	
DM01A-CA-03-17600	17.6		123	73	48	18			
DM01A-CA-03-17700	17.7		123	73	48	18			
DM01A-CA-03-17800	17.8		123	73	48	18		3/4-20UNEF	
DM01A-CA-03-17900	17.9		123	73	48	18			
DM01A-CA-03-18000	18.0		123	73	48	18	M20 x 2		
DM01A-CA-03-18100	18.1		131	79	50	20			
DM01A-CA-03-18200	18.2		131	79	50	20			
DM01A-CA-03-18300	18.3		131	73	50	20			
DM01A-CA-03-18400	18.4		131	79	50	20			
DM01A-CA-03-18500	18.5		131	79	50	20	M20 x 1.5		
DM01A-CA-03-18600	18.6		131	79	50	20		3/8-16UNC	
DM01A-CA-03-18700	18.7		131	79	50	20			
DM01A-CA-03-18800	18.8		131	79	50	20			
DM01A-CA-03-18900	18.9		131	79	50	20			M20 x 2.5
DM01A-CA-03-19000	19.0		131	79	50	20	M20 x 1		
DM01A-CA-03-19050	19.05	3/4"	131	79	50	20			
DM01A-CA-03-19100	19.1		131	79	50	20			
DM01A-CA-03-19200	19.2		131	79	50	20			
DM01A-CA-03-19300	19.3		131	79	50	20			M20 x 1.5
DM01A-CA-03-19400	19.4		131	79	50	20			
DM01A-CA-03-19500	19.5		131	79	50	20	M22 x 2.5		
DM01A-CA-03-19600	19.6		131	79	50	20		7/8-9UNC	
DM01A-CA-03-19700	19.7		131	79	50	20			
DM01A-CA-03-19800	19.8		131	79	50	20			
DM01A-CA-03-19900	19.9		131	79	50	20			
DM01A-CA-03-20000	20.0		131	79	50	20	M22 x 2		

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel		预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminium Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC						
○	○					◎				◎	○

◎ 非常适合 ○ 适合

Drill

不锈钢专用麻花钻 Stainless steel drill



产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DM01A-CA-05-03000	3.0		66	28	36	6		NO.6-40UNF	
DM01A-CA-05-03100	3.1		66	28	36	6			
DM01A-CA-05-03175	3.175	1/8"	66	28	36	6			
DM01A-CA-05-03200	3.2		66	28	36	6	M3.5 x 0.35		M3.5 x 0.6
DM01A-CA-05-03300	3.3		66	28	36	6	M4 x 0.7		
DM01A-CA-05-03400	3.4		66	28	36	6		NO.8-32UNC	
DM01A-CA-05-03500	3.5		66	28	36	6	M4 x 0.5	NO.8-36UNF	
DM01A-CA-05-03572	3.572	9/64"	66	28	36	6			
DM01A-CA-05-03600	3.6		66	28	36	6			
DM01A-CA-05-03700	3.7		66	28	36	6			M4 x 0.7
DM01A-CA-05-03800	3.8		74	36	36	6	M4.5 x 0.75		M4 x 0.5
DM01A-CA-05-03900	3.9		74	36	36	6		NO.10-24UNC	
DM01A-CA-05-03969	3.969	5/32"	74	36	36	6			
DM01A-CA-05-04000	4.0		74	36	36	6			
DM01A-CA-05-04100	4.1		74	36	36	6		NO.10-32UNF	
DM01A-CA-05-04200	4.2		74	36	36	6	M5 x 0.8		
DM01A-CA-05-04300	4.3		74	36	36	6			
DM01A-CA-05-04366	4.366	11/64"	74	36	36	6			
DM01A-CA-05-04400	4.4		74	36	36	6			
DM01A-CA-05-04500	4.5		74	36	36	6	M5 x 0.5	NO.12-24UNC	
DM01A-CA-05-04600	4.6		74	36	36	6		NO.12-28UNF	
DM01A-CA-05-04700	4.7		74	36	36	6		NO.12-32UNEF	
DM01A-CA-05-04763	4.763	3/16"	82	44	36	6			
DM01A-CA-05-04800	4.8		82	44	36	6			M5 x 0.5
DM01A-CA-05-04900	4.9		82	44	36	6			
DM01A-CA-05-05000	5.0		82	44	36	6	M6 x 1		
DM01A-CA-05-05100	5.1		82	44	36	6		1/4-20UNC	
DM01A-CA-05-05159	5.159	13/64"	82	44	36	6			
DM01A-CA-05-05200	5.2		82	44	36	6			
DM01A-CA-05-05300	5.3		82	44	36	6	M6 x 0.75		
DM01A-CA-05-05400	5.4		82	44	36	6			
DM01A-CA-05-05500	5.5		82	44	36	6		1/4-28UNF	
DM01A-CA-05-05556	5.556	7/32"	82	44	36	6			
DM01A-CA-05-05600	5.6		82	44	36	6		1/4-32UNEF	M6 x 1
DM01A-CA-05-05700	5.7		82	44	36	6			M6 x 0.75
DM01A-CA-05-05800	5.8		82	44	36	6			
DM01A-CA-05-05900	5.9		82	44	36	6			
DM01A-CA-05-05953	5.953	15/64"	82	44	36	6			
DM01A-CA-05-06000	6.0		82	44	36	6	M7 x 1		
DM01A-CA-05-06100	6.1		91	53	36	8			
DM01A-CA-05-06200	6.2		91	53	36	8			
DM01A-CA-05-06300	6.3		91	53	36	8	M7 x 0.75		
DM01A-CA-05-06350	6.35	1/4"	91	53	36	8			
DM01A-CA-05-06400	6.4		91	53	36	8			
DM01A-CA-05-06500	6.5		91	53	36	8			
DM01A-CA-05-06600	6.6		91	53	36	8		5/16-18UNC	M7 x 1
DM01A-CA-05-06700	6.7		91	53	36	8			M7 x 0.75

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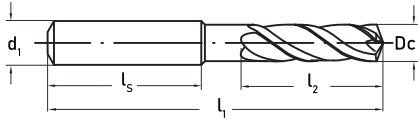
产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DN01A-NA-08-16000	16.0		204	152	48	16	M18 x 2		
DN01A-NA-08-16100	16.1		223	171	48	18			
DN01A-NA-08-16200	16.2		223	171	48	18			
DN01A-NA-08-16300	16.3		223	171	48	18			
DN01A-NA-08-16400	16.4		223	171	48	18			
DN01A-NA-08-16500	16.5		223	171	48	18	M18 x 1.5		
DN01A-NA-08-16600	16.6		223	171	48	18		3/4-10UNC	
DN01A-NA-08-16700	16.7		223	171	48	18			
DN01A-NA-08-16800	16.8		223	171	48	18			M18 x 2.5
DN01A-NA-08-16900	16.9		223	171	48	18			
DN01A-NA-08-17000	17.0		223	171	48	18			M18 x 2.5
DN01A-NA-08-17100	17.1		223	171	48	18			
DN01A-NA-08-17200	17.2		223	171	48	18			
DN01A-NA-08-17300	17.3		223	171	48	18			M18 x 1.5
DN01A-NA-08-17400	17.4		223	171	48	18			
DN01A-NA-08-17500	17.5		223	171	48	18	M20 x 2.5	3/4-16UNF	
DN01A-NA-08-17600	17.6		223	171	48	18			
DN01A-NA-08-17700	17.7		223	171	48	18			
DN01A-NA-08-17800	17.8		223	171	48	18		3/4-20UNEF	
DN01A-NA-08-17900	17.9		223	171	48	18			
DN01A-NA-08-18000	18.0		223	171	48	18	M20 x 2		
DN01A-NA-08-18100	18.1		244	190	50	20			
DN01A-NA-08-18200	18.2		244	190	50	20			
DN01A-NA-08-18300	18.3		244	190	50	20			
DN01A-NA-08-18400	18.4		244	190	50	20			
DN01A-NA-08-18500	18.5		244	190	50	20	M20 x 1.5		
DN01A-NA-08-18600	18.6		244	190	50	20			
DN01A-NA-08-18700	18.7		244	190	50	20			
DN01A-NA-08-18800	18.8		244	190	50	20			
DN01A-NA-08-18900	18.9		244	190	50	20			M20 x 2.5
DN01A-NA-08-19000	19.0		244	190	50	20	M20 x 1		
DN01A-NA-08-19050	19.05	3/4"	244	190	50	20			
DN01A-NA-08-19100	19.1		244	190	50	20			
DN01A-NA-08-19200	19.2		244	190	50	20			
DN01A-NA-08-19300	19.3		244	190	50	20			M20 x 1.5
DN01A-NA-08-19400	19.4		244	190	50	20			
DN01A-NA-08-19500	19.5		244	190	50	20	M22 x 2.5		
DN01A-NA-08-19600	19.6		244	190	50	20		7/8-9UNC	
DN01A-NA-08-19700	19.7		244	190	50	20			
DN01A-NA-08-19800	19.8		244	190	50	20			
DN01A-NA-08-19900	19.9		244	190	50	20			
DN01A-NA-08-20000	20.0		244	190	50	20	M22 x 2		

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel	预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC			☉		

☉ 非常适合 ○ 适合

Drill

三刃钻 Three flutes drill



产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DU03A-NA-03-03000	3.0		62	20	36	6		NO.6-40UNF	
DU03A-NA-03-03100	3.1		62	20	36	6			
DU03A-NA-03-03175	3.175	1/8"	62	20	36	6			
DU03A-NA-03-03200	3.2		62	20	36	6	M3.5 x 0.35		M3.5 x 0.6
DU03A-NA-03-03300	3.3		62	20	36	6	M4 x 0.7		
DU03A-NA-03-03400	3.4		62	20	36	6		NO.8-32UNC	
DU03A-NA-03-03500	3.5		62	20	36	6	M4 x 0.5	NO.8-36UNF	
DU03A-NA-03-03572	3.572	9/64"	62	20	36	6			
DU03A-NA-03-03600	3.6		62	20	36	6			
DU03A-NA-03-03700	3.7		62	20	36	6			M4 x 0.7
DU03A-NA-03-03800	3.8		66	24	36	6	M4.5 x 0.75		M4 x 0.5
DU03A-NA-03-03900	3.9		66	24	36	6		NO.10-24UNC	
DU03A-NA-03-03969	3.969	5/32"	66	24	36	6			
DU03A-NA-03-04000	4.0		66	24	36	6			
DU03A-NA-03-04100	4.1		66	24	36	6		NO.10-32UNF	
DU03A-NA-03-04200	4.2		66	24	36	6	M5 x 0.8		
DU03A-NA-03-04300	4.3		66	24	36	6			
DU03A-NA-03-04366	4.366	11/64"	66	24	36	6			
DU03A-NA-03-04400	4.4		66	24	36	6			
DU03A-NA-03-04500	4.5		66	24	36	6	M5 x 0.5	NO.12-24UNC	
DU03A-NA-03-04600	4.6		66	24	36	6		NO.12-28UNF	
DU03A-NA-03-04700	4.7		66	24	36	6		NO.12-32UNEF	
DU03A-NA-03-04763	4.763	3/16"	66	28	36	6			
DU03A-NA-03-04800	4.8		66	28	36	6			M5 x 0.5
DU03A-NA-03-04900	4.9		66	28	36	6			
DU03A-NA-03-05000	5.0		66	28	36	6	M6 x 1		
DU03A-NA-03-05100	5.1		66	28	36	6		1/4-20UNC	
DU03A-NA-03-05159	5.159	13/64"	66	28	36	6			
DU03A-NA-03-05200	5.2		66	28	36	6			
DU03A-NA-03-05300	5.3		66	28	36	6	M6 x 0.75		
DU03A-NA-03-05400	5.4		66	28	36	6			
DU03A-NA-03-05500	5.5		66	28	36	6		1/4-28UNF	
DU03A-NA-03-05556	5.556	7/32"	66	28	36	6			
DU03A-NA-03-05600	5.6		66	28	36	6		1/4-32UNEF	M6 x 1
DU03A-NA-03-05700	5.7		66	28	36	6			M6 x 0.75
DU03A-NA-03-05800	5.8		66	28	36	6			
DU03A-NA-03-05900	5.9		66	28	36	6			
DU03A-NA-03-05953	5.953	15/64"	66	28	36	6			
DU03A-NA-03-06000	6.0		66	28	36	6	M7 x 1		
DU03A-NA-03-06100	6.1		79	34	36	8			
DU03A-NA-03-06200	6.2		79	34	36	8			
DU03A-NA-03-06300	6.3		79	34	36	8	M7 x 0.75		
DU03A-NA-03-06350	6.35	1/4"	79	34	36	8			
DU03A-NA-03-06400	6.4		79	34	36	8			
DU03A-NA-03-06500	6.5		79	34	36	8			
DU03A-NA-03-06600	6.6		79	34	36	8		5/16-18UNC	M7 x 1
DU03A-NA-03-06700	6.7		79	34	36	8			M7 x 0.75

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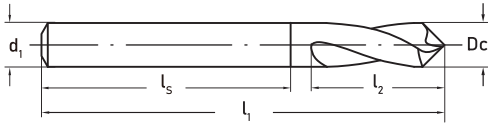
产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DU03A-NA-03-16000	16.0		115	65	48	16	M18 x 2		
DU03A-NA-03-16100	16.1		123	73	48	18			
DU03A-NA-03-16200	16.2		123	73	48	18			
DU03A-NA-03-16300	16.3		123	73	48	18			
DU03A-NA-03-16400	16.4		123	73	48	18			
DU03A-NA-03-16500	16.5		123	73	48	18	M18 x 1.5		
DU03A-NA-03-16600	16.6		123	73	48	18		3/4-10UNC	
DU03A-NA-03-16700	16.7		123	73	48	18			
DU03A-NA-03-16800	16.8		123	73	48	18			M18 x 2.5
DU03A-NA-03-16900	16.9		123	73	48	18			
DU03A-NA-03-17000	17.0		123	73	48	18			M18 x 2.5
DU03A-NA-03-17100	17.1		123	73	48	18			
DU03A-NA-03-17200	17.2		123	73	48	18			
DU03A-NA-03-17300	17.3		123	73	48	18			M18 x 1.5
DU03A-NA-03-17400	17.4		123	73	48	18			
DU03A-NA-03-17500	17.5		123	73	48	18	M20 x 2.5	3/4-16UNF	
DU03A-NA-03-17600	17.6		123	73	48	18			
DU03A-NA-03-17700	17.7		123	73	48	18			
DU03A-NA-03-17800	17.8		123	73	48	18		3/4-20UNEF	
DU03A-NA-03-17900	17.9		123	73	48	18			
DU03A-NA-03-18000	18.0		123	73	48	18	M20 x 2		
DU03A-NA-03-18100	18.1		131	79	50	20			
DU03A-NA-03-18200	18.2		131	79	50	20			
DU03A-NA-03-18300	18.3		131	73	50	20			
DU03A-NA-03-18400	18.4		131	79	50	20			
DU03A-NA-03-18500	18.5		131	79	50	20	M20 x 1.5		
DU03A-NA-03-18600	18.6		131	79	50	20		3/8-16UNC	
DU03A-NA-03-18700	18.7		131	79	50	20			
DU03A-NA-03-18800	18.8		131	79	50	20			
DU03A-NA-03-18900	18.9		131	79	50	20			M20 x 2.5
DU03A-NA-03-19000	19.0		131	79	50	20	M20 x 1		
DU03A-NA-03-19050	19.05	3/4"	131	79	50	20			
DU03A-NA-03-19100	19.1		131	79	50	20			
DU03A-NA-03-19200	19.2		131	79	50	20			
DU03A-NA-03-19300	19.3		131	79	50	20			M20 x 1.5
DU03A-NA-03-19400	19.4		131	79	50	20			
DU03A-NA-03-19500	19.5		131	79	50	20	M22 x 2.5		
DU03A-NA-03-19600	19.6		131	79	50	20		7/8-9UNC	
DU03A-NA-03-19700	19.7		131	79	50	20			
DU03A-NA-03-19800	19.8		131	79	50	20			
DU03A-NA-03-19900	19.9		131	79	50	20			
DU03A-NA-03-20000	20.0		131	79	50	20	M22 x 2		

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel	预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC					
⊙	⊙	○				○	○		○	

⊙ 非常适合 ○ 适合

Drill

定心钻 Spotting drill



产品型号 Product Type	尺寸 Size (mm)					
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁
DU05A-NA-03000	3.0		44	6	36	4
DU05A-NA-03175	3.175	1/8"	44	6	36	4
DU05A-NA-04000	4.0		46	8	36	4
DU05A-NA-04763	4.763	3/16"	46	8	36	6
DU05A-NA-05000	5.0		48	10	36	6
DU05A-NA-06000	6.0		50	10	36	6
DU05A-NA-06350	6.35	1/4"	50	12	36	8
DU05A-NA-07000	7.0		50	12	36	8
DU05A-NA-07938	7.938	5/16"	54	16	36	8
DU05A-NA-08000	8.0		54	16	36	8
DU05A-NA-09000	9.0		62	20	40	10
DU05A-NA-09525	9.525	3/8"	62	20	40	10
DU05A-NA-10000	10.0		62	20	40	10
DU05A-NA-11000	11.0		71	24	45	12
DU05A-NA-12000	12.0		71	24	45	12
DU05A-NA-12700	12.7	1/2"	75	28	45	14
DU05A-NA-13000	13.0		75	28	45	14
DU05A-NA-14000	14.0		75	28	45	14
DU05A-NA-15000	15.0		86	36	48	16
DU05A-NA-16000	16.0		86	36	48	16
DU05A-NA-18000	18.0		86	36	48	18
DU05A-NA-19000	19.0		92	40	50	20
DU05A-NA-19050	19.05	3/4"	92	40	50	20
DU05A-NA-20000	20.0		92	40	50	20

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel	预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC					
○	○	○				○	○	○	○	○

⊙ 非常适合 ○ 适合



续

产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DU10A-NA-03-11113	11.113	7/16"	102	55	45	12			
DU10A-NA-03-11200	11.2		102	55	45	12			M12 x 1.75
DU10A-NA-03-11300	11.3		102	55	45	12			M12 x 1.5
DU10A-NA-03-11400	11.4		102	55	45	12			
DU10A-NA-03-11500	11.5		102	55	45	12		1/2-20UNF	M12 x 1.25
DU10A-NA-03-11509	11.509	29/64"	102	55	45	12			
DU10A-NA-03-11600	11.6		102	55	45	12			M12 x 1
DU10A-NA-03-11700	11.7		102	55	45	12			
DU10A-NA-03-11800	11.8		102	55	45	12		1/2-28UNEF	
DU10A-NA-03-11900	11.9		102	55	45	12			
DU10A-NA-03-11906	11.906	15/32"	102	55	45	12			
DU10A-NA-03-12000	12.0		102	55	45	12	M14 x 2		
DU10A-NA-03-12100	12.1		107	60	45	14			
DU10A-NA-03-12200	12.2		107	60	45	14		9/16-12UNC	
DU10A-NA-03-12300	12.3		107	60	45	14			
DU10A-NA-03-12303	12.303	31/64"	107	60	45	14			
DU10A-NA-03-12400	12.4		107	60	45	14			
DU10A-NA-03-12500	12.5		107	60	45	14	M14 x 1.5		
DU10A-NA-03-12600	12.6		107	60	45	14			
DU10A-NA-03-12700	12.7	1/2"	107	60	45	14			
DU10A-NA-03-12800	12.8		107	60	45	14			
DU10A-NA-03-12900	12.9		107	60	45	14		9/16-18UNF	
DU10A-NA-03-13000	13.0		107	60	45	14	M14 x 1		
DU10A-NA-03-13100	13.1		107	60	45	14			M14 x 2
DU10A-NA-03-13200	13.2		107	60	45	14		9/16-24UNEF	
DU10A-NA-03-13300	13.3		107	60	45	14			M14 x 1.5
DU10A-NA-03-13400	13.4		107	60	45	14			
DU10A-NA-03-13494	13.494	17/32"	107	60	45	14			
DU10A-NA-03-13500	13.5		107	60	45	14			
DU10A-NA-03-13600	13.6		107	60	45	14		5/8-11UNC	M14 x 1
DU10A-NA-03-13700	13.7		107	60	45	14			
DU10A-NA-03-13800	13.8		107	60	45	14			
DU10A-NA-03-13900	13.9		107	60	45	14			
DU10A-NA-03-14000	14.0		107	60	45	14	M16 x 2		
DU10A-NA-03-14100	14.1		115	65	48	16			
DU10A-NA-03-14200	14.2		115	65	48	16			
DU10A-NA-03-14288	14.288	9/16"	115	65	48	16			
DU10A-NA-03-14300	14.3		115	65	48	16			
DU10A-NA-03-14400	14.4		115	65	48	16			
DU10A-NA-03-14500	14.5		115	65	48	16	M16 x 1.5	5/8-18UNF	
DU10A-NA-03-14600	14.6		115	65	48	16			
DU10A-NA-03-14700	14.7		115	65	48	16			
DU10A-NA-03-14800	14.8		115	65	48	16			
DU10A-NA-03-14900	14.9		115	65	48	16			
DU10A-NA-03-15000	15.0		115	65	48	16	M16 x 1		
DU10A-NA-03-15100	15.1		115	65	48	16			M16 x 2
DU10A-NA-03-15200	15.2		115	65	48	16			
DU10A-NA-03-15300	15.3		115	65	48	16			M16 x 1.5
DU10A-NA-03-15400	15.4		115	65	48	16			
DU10A-NA-03-15500	15.5		115	65	48	16	M18 x 2.5		
DU10A-NA-03-15600	15.6		115	65	48	16			M16 x 1
DU10A-NA-03-15700	15.7		115	65	48	16			
DU10A-NA-03-15800	15.8		115	65	48	16			
DU10A-NA-03-15875	15.875	5/8"	115	65	48	16			
DU10A-NA-03-15900	15.9		115	65	48	16			

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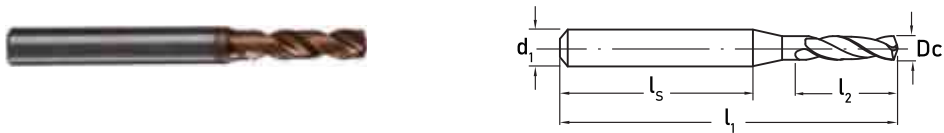
产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DU10A-NA-03-16000	16.0		115	65	48	16	M18 x 2		
DU10A-NA-03-16100	16.1		123	73	48	18			
DU10A-NA-03-16200	16.2		123	73	48	18			
DU10A-NA-03-16300	16.3		123	73	48	18			
DU10A-NA-03-16400	16.4		123	73	48	18			
DU10A-NA-03-16500	16.5		123	73	48	18	M18 x 1.5		
DU10A-NA-03-16600	16.6		123	73	48	18		3/4-10UNC	
DU10A-NA-03-16700	16.7		123	73	48	18			
DU10A-NA-03-16800	16.8		123	73	48	18			M18 x 2.5
DU10A-NA-03-16900	16.9		123	73	48	18			
DU10A-NA-03-17000	17.0		123	73	48	18			M18 x 2.5
DU10A-NA-03-17100	17.1		123	73	48	18			
DU10A-NA-03-17200	17.2		123	73	48	18			
DU10A-NA-03-17300	17.3		123	73	48	18			M18 x 1.5
DU10A-NA-03-17400	17.4		123	73	48	18			
DU10A-NA-03-17500	17.5		123	73	48	18	M20 x 2.5	3/4-16UNF	
DU10A-NA-03-17600	17.6		123	73	48	18			
DU10A-NA-03-17700	17.7		123	73	48	18			
DU10A-NA-03-17800	17.8		123	73	48	18		3/4-20UNEF	
DU10A-NA-03-17900	17.9		123	73	48	18			
DU10A-NA-03-18000	18.0		123	73	48	18	M20 x 2		
DU10A-NA-03-18100	18.1		131	79	50	20			
DU10A-NA-03-18200	18.2		131	79	50	20			
DU10A-NA-03-18300	18.3		131	73	50	20			
DU10A-NA-03-18400	18.4		131	79	50	20			
DU10A-NA-03-18500	18.5		131	79	50	20	M20 x 1.5		
DU10A-NA-03-18600	18.6		131	79	50	20		3/8-16UNC	
DU10A-NA-03-18700	18.7		131	79	50	20			
DU10A-NA-03-18800	18.8		131	79	50	20			
DU10A-NA-03-18900	18.9		131	79	50	20			M20 x 2.5
DU10A-NA-03-19000	19.0		131	79	50	20	M20 x 1		
DU10A-NA-03-19050	19.05	3/4"	131	79	50	20			
DU10A-NA-03-19100	19.1		131	79	50	20			
DU10A-NA-03-19200	19.2		131	79	50	20			
DU10A-NA-03-19300	19.3		131	79	50	20			M20 x 1.5
DU10A-NA-03-19400	19.4		131	79	50	20			
DU10A-NA-03-19500	19.5		131	79	50	20	M22 x 2.5		
DU10A-NA-03-19600	19.6		131	79	50	20		7/8-9UNC	
DU10A-NA-03-19700	19.7		131	79	50	20			
DU10A-NA-03-19800	19.8		131	79	50	20			
DU10A-NA-03-19900	19.9		131	79	50	20			
DU10A-NA-03-20000	20.0		131	79	50	20	M22 x 2		

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel	预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC	○	○		○	

◎ 非常适合 ○ 适合



Drill 引导钻 Pilot drill

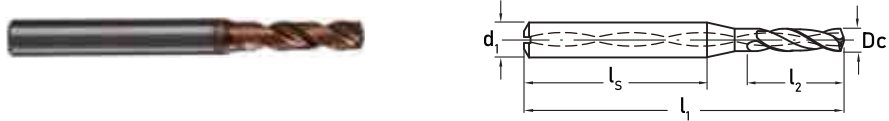


产品型号 Product Type	尺寸 Size (mm)			
	Dc	l ₁	l ₂	l _s
DU11A-NA-01050	1.05	50	5	38
DU11A-NA-01100	1.10	50	5	38
DU11A-NA-01150	1.15	51	6	39
DU11A-NA-01190	1.19	51	6	39
DU11A-NA-01200	1.20	51	6	39
DU11A-NA-01250	1.25	51	6	39
DU11A-NA-01300	1.30	53	7	40
DU11A-NA-01350	1.35	53	7	40
DU11A-NA-01400	1.40	53	7	40
DU11A-NA-01450	1.45	53	8	39
DU11A-NA-01500	1.50	53	8	39
DU11A-NA-01550	1.55	54	8	41
DU11A-NA-01580	1.58	54	8	41
DU11A-NA-01600	1.60	54	8	41
DU11A-NA-01650	1.65	54	9	40
DU11A-NA-01700	1.70	54	9	40
DU11A-NA-01750	1.75	54	9	40
DU11A-NA-01800	1.80	54	9	40
DU11A-NA-01850	1.85	57	10	42
DU11A-NA-01900	1.90	57	10	42
DU11A-NA-01950	1.95	57	10	42
DU11A-NA-01980	1.98	57	10	42

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel	预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC					
○	○	○				○	○		○	

◎ 非常适合 ○ 适合

Drill 引导钻 Pilot drill

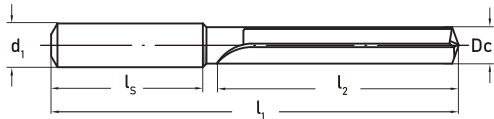


产品型号 Product Type	尺寸 Size (mm)			
	Dc	l ₁	l ₂	l _s
DU11A-CA-02000	2.00	57	10	42
DU11A-CA-02050	2.05	57	11	42
DU11A-CA-02100	2.10	57	11	42
DU11A-CA-02150	2.15	57	11	42
DU11A-CA-02200	2.20	57	11	42
DU11A-CA-02250	2.25	57	12	43
DU11A-CA-02300	2.30	59	12	43
DU11A-CA-02350	2.35	59	12	43
DU11A-CA-02400	2.40	59	12	43
DU11A-CA-02450	2.45	59	13	42
DU11A-CA-02500	2.50	59	13	42
DU11A-CA-02550	2.55	62	13	45
DU11A-CA-02600	2.60	62	13	45
DU11A-CA-02650	2.65	62	14	45
DU11A-CA-02700	2.70	62	14	45
DU11A-CA-02750	2.75	62	14	45
DU11A-CA-02800	2.80	62	14	45
DU11A-CA-02850	2.85	62	15	44
DU11A-CA-02900	2.90	62	15	44
DU11A-CA-02950	2.95	62	15	44

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel	预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC					
○	○	○				○	○		○	

◎ 非常适合 ○ 适合

Drill直槽钻 Straight flute drill



产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l ₃	d ₁	切削丝锥 Cutting tap	挤压丝锥 Forming tap	
DN02A-NA-05-03000	3.0		66	28	36	6		NO.6-40UNF	
DN02A-NA-05-03100	3.1		66	28	36	6			
DN02A-NA-05-03175	3.175	1/8"	66	28	36	6			
DN02A-NA-05-03200	3.2		66	28	36	6	M3.5 x 0.35		M3.5 x 0.6
DN02A-NA-05-03300	3.3		66	28	36	6	M4 x 0.7		
DN02A-NA-05-03400	3.4		66	28	36	6		NO.8-32UNC	
DN02A-NA-05-03500	3.5		66	28	36	6	M4 x 0.5	NO.8-36UNF	
DN02A-NA-05-03572	3.572	9/64"	66	28	36	6			
DN02A-NA-05-03600	3.6		66	28	36	6			
DN02A-NA-05-03700	3.7		66	28	36	6			M4 x 0.7
DN02A-NA-05-03800	3.8		74	36	36	6	M4.5 x 0.75		M4 x 0.5
DN02A-NA-05-03900	3.9		74	36	36	6		NO.10-24UNC	
DN02A-NA-05-03969	3.969	5/32"	74	36	36	6			
DN02A-NA-05-04000	4.0		74	36	36	6			
DN02A-NA-05-04100	4.1		74	36	36	6		NO.10-32UNF	
DN02A-NA-05-04200	4.2		74	36	36	6	M5 x 0.8		
DN02A-NA-05-04300	4.3		74	36	36	6			
DN02A-NA-05-04366	4.366	11/64"	74	36	36	6			
DN02A-NA-05-04400	4.4		74	36	36	6			
DN02A-NA-05-04500	4.5		74	36	36	6	M5 x 0.5	NO.12-24UNC	
DN02A-NA-05-04600	4.6		74	36	36	6		NO.12-28UNF	
DN02A-NA-05-04700	4.7		74	36	36	6		NO.12-32UNEF	
DN02A-NA-05-04763	4.763	3/16"	82	44	36	6			
DN02A-NA-05-04800	4.8		82	44	36	6			M5 x 0.5
DN02A-NA-05-04900	4.9		82	44	36	6			
DN02A-NA-05-05000	5.0		82	44	36	6	M6 x 1		
DN02A-NA-05-05100	5.1		82	44	36	6		1/4-20UNC	
DN02A-NA-05-05159	5.159	13/64"	82	44	36	6			
DN02A-NA-05-05200	5.2		82	44	36	6			
DN02A-NA-05-05300	5.3		82	44	36	6	M6 x 0.75		
DN02A-NA-05-05400	5.4		82	44	36	6			
DN02A-NA-05-05500	5.5		82	44	36	6		1/4-28UNF	
DN02A-NA-05-05556	5.556	7/32"	82	44	36	6			
DN02A-NA-05-05600	5.6		82	44	36	6		1/4-32UNEF	M6 x 1
DN02A-NA-05-05700	5.7		82	44	36	6			M6 x 0.75
DN02A-NA-05-05800	5.8		82	44	36	6			
DN02A-NA-05-05900	5.9		82	44	36	6			
DN02A-NA-05-05953	5.953	15/64"	82	44	36	6			
DN02A-NA-05-06000	6.0		82	44	36	6	M7 x 1		
DN02A-NA-05-06100	6.1		91	53	36	8			
DN02A-NA-05-06200	6.2		91	53	36	8			
DN02A-NA-05-06300	6.3		91	53	36	8	M7 x 0.75		
DN02A-NA-05-06350	6.35	1/4"	91	53	36	8			
DN02A-NA-05-06400	6.4		91	53	36	8			
DN02A-NA-05-06500	6.5		91	53	36	8			
DN02A-NA-05-06600	6.6		91	53	36	8		5/16-18UNC	M7 x 1
DN02A-NA-05-06700	6.7		91	53	36	8			M7 x 0.75

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产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l ₃	d ₁	切削丝锥 Cutting tap	挤压丝锥 Forming tap	
DN02A-NA-05-06747	6.747	17/64"	91	53	36	8			
DN02A-NA-05-06800	6.8		91	53	36	8	M8 x 1.25		
DN02A-NA-05-06900	6.9		91	53	36	8		5/16-32UNF	
DN02A-NA-05-07000	7.0		91	53	36	8	M8 x 1		
DN02A-NA-05-07100	7.1		91	53	36	8		5/16-32UNEF	
DN02A-NA-05-07144	7.144	9/32"	91	53	36	8			
DN02A-NA-05-07200	7.2		91	53	36	8			
DN02A-NA-05-07300	7.3		91	53	36	8	M8 x 0.75		
DN02A-NA-05-07400	7.4		91	53	36	8			
DN02A-NA-05-07500	7.5		91	53	36	8			M8 x 1.25
DN02A-NA-05-07541	7.541	19/64"	91	53	36	8			
DN02A-NA-05-07600	7.6		91	53	36	8			M8 x 1
DN02A-NA-05-07700	7.7		91	53	36	8			M8 x 0.75
DN02A-NA-05-07800	7.8		91	53	36	8			
DN02A-NA-05-07900	7.9		91	53	36	8			
DN02A-NA-05-07938	7.938	5/16"	91	53	36	8			
DN02A-NA-05-08000	8.0		91	53	36	8		3/8-16UNC	
DN02A-NA-05-08100	8.1		103	61	40	10			
DN02A-NA-05-08200	8.2		103	61	40	10			
DN02A-NA-05-08300	8.3		103	61	40	10			
DN02A-NA-05-08334	8.334	21/64"	103	61	40	10			
DN02A-NA-05-08400	8.4		103	61	40	10			
DN02A-NA-05-08500	8.5		103	61	40	10	M10 x 1.5	3/8-24UNF	
DN02A-NA-05-08600	8.6		103	61	40	10			
DN02A-NA-05-08700	8.7		103	61	40	10		3/8-32UNF	
DN02A-NA-05-08731	8.731	11/32"	103	61	40	10			
DN02A-NA-05-08800	8.8		103	61	40	10	M10 x 1.25		
DN02A-NA-05-08900	8.9		103	61	40	10			
DN02A-NA-05-09000	9.0		103	61	40	10	M10 x 1		
DN02A-NA-05-09100	9.1		103	61	40	10			
DN02A-NA-05-09128	9.128	23/64"	103	61	40	10			
DN02A-NA-05-09200	9.2		103	61	40	10			
DN02A-NA-05-09300	9.3		103	61	40	10	M10 x 0.75		M10 x 1.5
DN02A-NA-05-09400	9.4		103	61	40	10		7/16-14UNC	
DN02A-NA-05-09500	9.5		103	61	40	10			M10 x 1.25
DN02A-NA-05-09525	9.525	3/8"	103	61	40	10			
DN02A-NA-05-09600	9.6		103	61	40	10			M10 x 1
DN02A-NA-05-09700	9.7		103	61	40	10			
DN02A-NA-05-09800	9.8		103	61	40	10			
DN02A-NA-05-09900	9.9		103	61	40	10			
DN02A-NA-05-09922	9.922	25/64"	103	61	40	10			
DN02A-NA-05-10000	10.0		103	61	40	10			
DN02A-NA-05-10100	10.1		118	71	45	12			
DN02A-NA-05-10200	10.2		118	71	45	12		7/16-28UNEF	
DN02A-NA-05-10300	10.3		118	71	45	12	M12 x 1.75		
DN02A-NA-05-10319	10.319	13/32"	118	71	45	12			
DN02A-NA-05-10400	10.4		118	71	45	12			
DN02A-NA-05-10500	10.5		118	71	45	12	M12 x 1.5		
DN02A-NA-05-10600	10.6		118	71	45	12			
DN02A-NA-05-10700	10.7		118	71	45	12			
DN02A-NA-05-10716	10.716	27/64"	118	71	45	12			
DN02A-NA-05-10800	10.8		118	71	45	12	M12 x 1.25		
DN02A-NA-05-10900	10.9		118	71	45	12		1/2-13UNC	
DN02A-NA-05-11000	11.0		118	71	45	12	M12 x 1		
DN02A-NA-05-11100	11.1		118	71	45	12			



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产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l ₅	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DN02A-NA-05-11113	11.113	7/16"	118	71	45	12			
DN02A-NA-05-11200	11.2		118	71	45	12			M12 x 1.75
DN02A-NA-05-11300	11.3		118	71	45	12			
DN02A-NA-05-11400	11.4		118	71	45	12			
DN02A-NA-05-11500	11.5		118	71	45	12			M12 x 1.25
DN02A-NA-05-11509	11.509	29/64"	118	71	45	12			
DN02A-NA-05-11600	11.6		118	71	45	12			M12 x 1
DN02A-NA-05-11700	11.7		118	71	45	12			
DN02A-NA-05-11800	11.8		118	71	45	12		1/2-28UNEF	
DN02A-NA-05-11900	11.9		118	71	45	12			
DN02A-NA-05-11906	11.906	15/32"	118	71	45	12			
DN02A-NA-05-12000	12.0		118	71	45	12	M14 x 2		
DN02A-NA-05-12100	12.1		124	77	45	14			
DN02A-NA-05-12200	12.2		124	77	45	14		9/16-12UNC	
DN02A-NA-05-12300	12.3		124	77	45	14			
DN02A-NA-05-12303	12.303	31/64"	124	77	45	14			
DN02A-NA-05-12400	12.4		124	77	45	14			
DN02A-NA-05-12500	12.5		124	77	45	14	M14 x 1.5		
DN02A-NA-05-12600	12.6		124	77	45	14			
DN02A-NA-05-12700	12.7	1/2"	124	77	45	14			
DN02A-NA-05-12800	12.8		124	77	45	14			
DN02A-NA-05-12900	12.9		124	77	45	14		9/16-18UNF	
DN02A-NA-05-13000	13.0		124	77	45	14	M14 x 1		
DN02A-NA-05-13100	13.1		124	77	45	14			M14 x 2
DN02A-NA-05-13200	13.2		124	77	45	14		9/16-24UNEF	
DN02A-NA-05-13300	13.3		124	77	45	14			M14 x 1.5
DN02A-NA-05-13400	13.4		124	77	45	14			
DN02A-NA-05-13494	13.494	17/32"	124	77	45	14			
DN02A-NA-05-13500	13.5		124	77	45	14			
DN02A-NA-05-13600	13.6		124	77	45	14		5/8-11UNC	M14 x 1
DN02A-NA-05-13700	13.7		124	77	45	14			
DN02A-NA-05-13800	13.8		124	77	45	14			
DN02A-NA-05-13900	13.9		124	77	45	14			
DN02A-NA-05-14000	14.0		124	77	45	14	M16 x 2		
DN02A-NA-05-14100	14.1		133	83	48	16			
DN02A-NA-05-14200	14.2		133	83	48	16			
DN02A-NA-05-14288	14.288	9/16"	133	83	48	16			
DN02A-NA-05-14300	14.3		133	83	48	16			
DN02A-NA-05-14400	14.4		133	83	48	16			
DN02A-NA-05-14500	14.5		133	83	48	16	M16 x 1.5	5/8-18UNF	
DN02A-NA-05-14600	14.6		133	83	48	16			
DN02A-NA-05-14700	14.7		133	83	48	16			
DN02A-NA-05-14800	14.8		133	83	48	16			
DN02A-NA-05-14900	14.9		133	83	48	16			
DN02A-NA-05-15000	15.0		133	83	48	16	M16 x 1		
DN02A-NA-05-15100	15.1		133	83	48	16			M16 x 2
DN02A-NA-05-15200	15.2		133	83	48	16			
DN02A-NA-05-15300	15.3		133	83	48	16			M16 x 1.5
DN02A-NA-05-15400	15.4		133	83	48	16			
DN02A-NA-05-15500	15.5		133	83	48	16	M18 x 2.5		
DN02A-NA-05-15600	15.6		133	83	48	16			M16 x 1
DN02A-NA-05-15700	15.7		133	83	48	16			
DN02A-NA-05-15800	15.8		133	83	48	16			
DN02A-NA-05-15875	15.875	5/8"	133	83	48	16			
DN02A-NA-05-15900	15.9		133	83	48	16			

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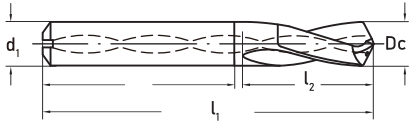
产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l ₅	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DN02A-NA-05-16000	16.0		133	83	48	16	M18 x 2		
DN02A-NA-05-16100	16.1		143	93	48	18			
DN02A-NA-05-16200	16.2		143	93	48	18			
DN02A-NA-05-16300	16.3		143	93	48	18			
DN02A-NA-05-16400	16.4		143	93	48	18			
DN02A-NA-05-16500	16.5		143	93	48	18	M18 x 1.5		
DN02A-NA-05-16600	16.6		143	93	48	18		3/4-10UNC	
DN02A-NA-05-16700	16.7		143	93	48	18			
DN02A-NA-05-16800	16.8		143	93	48	18			M18 x 2.5
DN02A-NA-05-16900	16.9		143	93	48	18			
DN02A-NA-05-17000	17.0		143	93	48	18			M18 x 2.5
DN02A-NA-05-17100	17.1		143	93	48	18			
DN02A-NA-05-17200	17.2		143	93	48	18			
DN02A-NA-05-17300	17.3		143	93	48	18			M18 x 1.5
DN02A-NA-05-17400	17.4		143	93	48	18			
DN02A-NA-05-17500	17.5		143	93	48	18	M20 x 2.5	3/4-16UNF	
DN02A-NA-05-17600	17.6		143	93	48	18			
DN02A-NA-05-17700	17.7		143	93	48	18			
DN02A-NA-05-17800	17.8		143	93	48	18		3/4-20UNEF	
DN02A-NA-05-17900	17.9		143	93	48	18			
DN02A-NA-05-18000	18.0		143	93	48	18	M20 x 2		
DN02A-NA-05-18100	18.1		153	101	50	20			
DN02A-NA-05-18200	18.2		153	101	50	20			
DN02A-NA-05-18300	18.3		153	101	50	20			
DN02A-NA-05-18400	18.4		153	101	50	20			
DN02A-NA-05-18500	18.5		153	101	50	20	M20 x 1.5		
DN02A-NA-05-18600	18.6		153	101	50	20			
DN02A-NA-05-18700	18.7		153	101	50	20			
DN02A-NA-05-18800	18.8		153	101	50	20			
DN02A-NA-05-18900	18.9		153	101	50	20			M20 x 2.5
DN02A-NA-05-19000	19.0		153	101	50	20	M20 x 1		
DN02A-NA-05-19050	19.05	3/4"	153	101	50	20			
DN02A-NA-05-19100	19.1		153	101	50	20			
DN02A-NA-05-19200	19.2		153	101	50	20			
DN02A-NA-05-19300	19.3		153	101	50	20			M20 x 1.5
DN02A-NA-05-19400	19.4		153	101	50	20			
DN02A-NA-05-19500	19.5		153	101	50	20	M22 x 2.5		
DN02A-NA-05-19600	19.6		153	101	50	20		7/8-9UNC	
DN02A-NA-05-19700	19.7		153	101	50	20			
DN02A-NA-05-19800	19.8		153	101	50	20			
DN02A-NA-05-19900	19.9		153	101	50	20			
DN02A-NA-05-20000	20.0		153	101	50	20	M22 x 2		

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel	预硬钢 Pre-hardened Steel	工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC					
						⊙		⊙		

⊙ 非常适合 ○ 适合



Drill 强力钻 Power drill



产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole	
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap	挤压丝锥 Forming tap
DH04A-CA-03-03000	3.0		62	20	36	6		
DH04A-CA-03-03100	3.1		62	20	36	6		
DH04A-CA-03-03175	3.175	1/8"	62	20	36	6		
DH04A-CA-03-03200	3.2		62	20	36	6	M3.5 x 0.35	M3.5 x 0.6
DH04A-CA-03-03300	3.3		62	20	36	6	M4 x 0.7	
DH04A-CA-03-03400	3.4		62	20	36	6		
DH04A-CA-03-03500	3.5		62	20	36	6	M4 x 0.5	
DH04A-CA-03-03572	3.572	9/64"	62	20	36	6		
DH04A-CA-03-03600	3.6		62	20	36	6		
DH04A-CA-03-03700	3.7		62	20	36	6		M4 x 0.7
DH04A-CA-03-03800	3.8		66	24	36	6	M4.5 x 0.75	M4 x 0.5
DH04A-CA-03-03900	3.9		66	24	36	6		
DH04A-CA-03-03969	3.969	5/32"	66	24	36	6		
DH04A-CA-03-04000	4.0		66	24	36	6		
DH04A-CA-03-04100	4.1		66	24	36	6		
DH04A-CA-03-04200	4.2		66	24	36	6	M5 x 0.8	
DH04A-CA-03-04300	4.3		66	24	36	6		
DH04A-CA-03-04366	4.366	11/64"	66	24	36	6		
DH04A-CA-03-04400	4.4		66	24	36	6		
DH04A-CA-03-04500	4.5		66	24	36	6	M5 x 0.5	
DH04A-CA-03-04600	4.6		66	24	36	6		
DH04A-CA-03-04700	4.7		66	24	36	6		
DH04A-CA-03-04763	4.763	3/16"	66	28	36	6		
DH04A-CA-03-04800	4.8		66	28	36	6		M5 x 0.5
DH04A-CA-03-04900	4.9		66	28	36	6		
DH04A-CA-03-05000	5.0		66	28	36	6	M6 x 1	
DH04A-CA-03-05100	5.1		66	28	36	6		
DH04A-CA-03-05159	5.159	13/64"	66	28	36	6		
DH04A-CA-03-05200	5.2		66	28	36	6		
DH04A-CA-03-05300	5.3		66	28	36	6	M6 x 0.75	
DH04A-CA-03-05400	5.4		66	28	36	6		
DH04A-CA-03-05500	5.5		66	28	36	6		
DH04A-CA-03-05556	5.556	7/32"	66	28	36	6		
DH04A-CA-03-05600	5.6		66	28	36	6		M6 x 1
DH04A-CA-03-05700	5.7		66	28	36	6		M6 x 0.75
DH04A-CA-03-05800	5.8		66	28	36	6		
DH04A-CA-03-05900	5.9		66	28	36	6		
DH04A-CA-03-05953	5.953	15/64"	66	28	36	6		
DH04A-CA-03-06000	6.0		66	28	36	6	M7 x 1	
DH04A-CA-03-06100	6.1		79	34	36	8		
DH04A-CA-03-06200	6.2		79	34	36	8		
DH04A-CA-03-06300	6.3		79	34	36	8	M7 x 0.75	
DH04A-CA-03-06350	6.35	1/4"	79	34	36	8		
DH04A-CA-03-06400	6.4		79	34	36	8		
DH04A-CA-03-06500	6.5		79	34	36	8		
DH04A-CA-03-06600	6.6		79	34	36	8		M7 x 1
DH04A-CA-03-06700	6.7		79	34	36	8		M7 x 0.75

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产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole	
	Dc	Dc Inch/No.	l ₁	l ₂	l _s	d ₁	切削丝锥 Cutting tap	挤压丝锥 Forming tap
DH04A-CA-03-06747	6.747	17/64"	79	34	36	8		
DH04A-CA-03-06800	6.8		79	34	36	8	M8 x 1.25	
DH04A-CA-03-06900	6.9		79	34	36	8		5/16-32UNF
DH04A-CA-03-07000	7.0		79	34	36	8	M8 x 1	
DH04A-CA-03-07100	7.1		79	41	36	8		5/16-32UNEF
DH04A-CA-03-07144	7.144	9/32"	79	41	36	8		
DH04A-CA-03-07200	7.2		79	41	36	8		
DH04A-CA-03-07300	7.3		79	41	36	8	M8 x 0.75	
DH04A-CA-03-07400	7.4		79	41	36	8		
DH04A-CA-03-07500	7.5		79	41	36	8		M8 x 1.25
DH04A-CA-03-07541	7.541	19/64"	79	41	36	8		
DH04A-CA-03-07600	7.6		79	41	36	8		M8 x 1
DH04A-CA-03-07700	7.7		79	41	36	8		M8 x 0.75
DH04A-CA-03-07800	7.8		79	41	36	8		
DH04A-CA-03-07900	7.9		79	41	36	8		
DH04A-CA-03-07938	7.938	5/16"	79	41	36	8		
DH04A-CA-03-08000	8.0		79	41	36	8		3/8-16UNC
DH04A-CA-03-08100	8.1		89	47	40	10		
DH04A-CA-03-08200	8.2		89	47	40	10		
DH04A-CA-03-08300	8.3		89	47	40	10		
DH04A-CA-03-08334	8.334	21/64"	89	47	40	10		
DH04A-CA-03-08400	8.4		89	47	40	10		
DH04A-CA-03-08500	8.5		89	47	40	10	M10 x 1.5	3/8-24UNF
DH04A-CA-03-08600	8.6		89	47	40	10		
DH04A-CA-03-08700	8.7		89	47	40	10		3/8-32UNF
DH04A-CA-03-08731	8.731	11/32"	89	47	40	10		
DH04A-CA-03-08800	8.8		89	47	40	10	M10 x 1.25	
DH04A-CA-03-08900	8.9		89	47	40	10		
DH04A-CA-03-09000	9.0		89	47	40	10	M10 x 1	
DH04A-CA-03-09100	9.1		89	47	40	10		
DH04A-CA-03-09128	9.128	23/64"	89	47	40	10		
DH04A-CA-03-09200	9.2		89	47	40	10		
DH04A-CA-03-09300	9.3		89	47	40	10	M10 x 0.75	M10 x 1.5
DH04A-CA-03-09400	9.4		89	47	40	10		7/16-14UNC
DH04A-CA-03-09500	9.5		89	47	40	10		M10 x 1.25
DH04A-CA-03-09525	9.525	3/8"	89	47	40	10		
DH04A-CA-03-09600	9.6		89	47	40	10		M10 x 1
DH04A-CA-03-09700	9.7		89	47	40	10		
DH04A-CA-03-09800	9.8		89	47	40	10		
DH04A-CA-03-09900	9.9		89	47	40	10		
DH04A-CA-03-09922	9.922	25/64"	89	47	40	10		
DH04A-CA-03-10000	10.0		89	47	40	10		
DH04A-CA-03-10100	10.1		102	55	45	12		
DH04A-CA-03-10200	10.2		102	55	45	12		7/16-28UNEF
DH04A-CA-03-10300	10.3		102	55	45	12	M12 x 1.75	
DH04A-CA-03-10319	10.319	13/32"	102	55	45	12		
DH04A-CA-03-10400	10.4		102	55	45	12		
DH04A-CA-03-10500	10.5		102	55	45	12	M12 x 1.5	
DH04A-CA-03-10600	10.6		102	55	45	12		
DH04A-CA-03-10700	10.7		102	55	45	12		
DH04A-CA-03-10716	10.716	27/64"	102	55	45	12		
DH04A-CA-03-10800	10.8		102	55	45	12	M12 x 1.25	
DH04A-CA-03-10900	10.9		102	55	45	12		1/2-13UNC
DH04A-CA-03-11000	11.0		102	55	45	12	M12 x 1	
DH04A-CA-03-11100	11.1		102	55	45	12		



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产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l ₅	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DH04A-CA-03-11113	11.113	7/16"	102	55	45	12			
DH04A-CA-03-11200	11.2		102	55	45	12			M12 x 1.75
DH04A-CA-03-11300	11.3		102	55	45	12			M12 x 1.5
DH04A-CA-03-11400	11.4		102	55	45	12			
DH04A-CA-03-11500	11.5		102	55	45	12		1/2-20UNF	M12 x 1.25
DH04A-CA-03-11509	11.509	29/64"	102	55	45	12			
DH04A-CA-03-11600	11.6		102	55	45	12			M12 x 1
DH04A-CA-03-11700	11.7		102	55	45	12			
DH04A-CA-03-11800	11.8		102	55	45	12		1/2-28UNEF	
DH04A-CA-03-11900	11.9		102	55	45	12			
DH04A-CA-03-11906	11.906	15/32"	102	55	45	12			
DH04A-CA-03-12000	12.0		102	55	45	12	M14 x 2		
DH04A-CA-03-12100	12.1		107	60	45	14			
DH04A-CA-03-12200	12.2		107	60	45	14		9/16-12UNC	
DH04A-CA-03-12300	12.3		107	60	45	14			
DH04A-CA-03-12303	12.303	31/64"	107	60	45	14			
DH04A-CA-03-12400	12.4		107	60	45	14			
DH04A-CA-03-12500	12.5		107	60	45	14	M14 x 1.5		
DH04A-CA-03-12600	12.6		107	60	45	14			
DH04A-CA-03-12700	12.7	1/2"	107	60	45	14			
DH04A-CA-03-12800	12.8		107	60	45	14			
DH04A-CA-03-12900	12.9		107	60	45	14		9/16-18UNF	
DH04A-CA-03-13000	13.0		107	60	45	14	M14 x 1		
DH04A-CA-03-13100	13.1		107	60	45	14			M14 x 2
DH04A-CA-03-13200	13.2		107	60	45	14		9/16-24UNEF	
DH04A-CA-03-13300	13.3		107	60	45	14			M14 x 1.5
DH04A-CA-03-13400	13.4		107	60	45	14			
DH04A-CA-03-13494	13.494	17/32"	107	60	45	14			
DH04A-CA-03-13500	13.5		107	60	45	14			
DH04A-CA-03-13600	13.6		107	60	45	14		5/8-11UNC	M14 x 1
DH04A-CA-03-13700	13.7		107	60	45	14			
DH04A-CA-03-13800	13.8		107	60	45	14			
DH04A-CA-03-13900	13.9		107	60	45	14			
DH04A-CA-03-14000	14.0		107	60	45	14	M16 x 2		
DH04A-CA-03-14100	14.1		115	65	48	16			
DH04A-CA-03-14200	14.2		115	65	48	16			
DH04A-CA-03-14288	14.288	9/16"	115	65	48	16			
DH04A-CA-03-14300	14.3		115	65	48	16			
DH04A-CA-03-14400	14.4		115	65	48	16			
DH04A-CA-03-14500	14.5		115	65	48	16	M16 x 1.5	5/8-18UNF	
DH04A-CA-03-14600	14.6		115	65	48	16			
DH04A-CA-03-14700	14.7		115	65	48	16			
DH04A-CA-03-14800	14.8		115	65	48	16			
DH04A-CA-03-14900	14.9		115	65	48	16			
DH04A-CA-03-15000	15.0		115	65	48	16	M16 x 1		
DH04A-CA-03-15100	15.1		115	65	48	16			M16 x 2
DH04A-CA-03-15200	15.2		115	65	48	16			
DH04A-CA-03-15300	15.3		115	65	48	16			M16 x 1.5
DH04A-CA-03-15400	15.4		115	65	48	16			
DH04A-CA-03-15500	15.5		115	65	48	16	M18 x 2.5		
DH04A-CA-03-15600	15.6		115	65	48	16			M16 x 1
DH04A-CA-03-15700	15.7		115	65	48	16			
DH04A-CA-03-15800	15.8		115	65	48	16			
DH04A-CA-03-15875	15.875	5/8"	115	65	48	16			
DH04A-CA-03-15900	15.9		115	65	48	16			

续

产品型号 Product Type	尺寸 Size (mm)						适合螺纹底孔 Suitable for thread hole		
	Dc	Dc Inch/No.	l ₁	l ₂	l ₅	d ₁	切削丝锥 Cutting tap		挤压丝锥 Forming tap
DH04A-CA-03-16000	16.0		115	65	48	16	M18 x 2		
DH04A-CA-03-16100	16.1		123	73	48	18			
DH04A-CA-03-16200	16.2		123	73	48	18			
DH04A-CA-03-16300	16.3		123	73	48	18			
DH04A-CA-03-16400	16.4		123	73	48	18			
DH04A-CA-03-16500	16.5		123	73	48	18	M18 x 1.5		
DH04A-CA-03-16600	16.6		123	73	48	18		3/4-10UNC	
DH04A-CA-03-16700	16.7		123	73	48	18			
DH04A-CA-03-16800	16.8		123	73	48	18			M18 x 2.5
DH04A-CA-03-16900	16.9		123	73	48	18			
DH04A-CA-03-17000	17.0		123	73	48	18			M18 x 2.5
DH04A-CA-03-17100	17.1		123	73	48	18			
DH04A-CA-03-17200	17.2		123	73	48	18			
DH04A-CA-03-17300	17.3		123	73	48	18			M18 x 1.5
DH04A-CA-03-17400	17.4		123	73	48	18			
DH04A-CA-03-17500	17.5		123	73	48	18	M20 x 2.5	3/4-16UNF	
DH04A-CA-03-17600	17.6		123	73	48	18			
DH04A-CA-03-17700	17.7		123	73	48	18			
DH04A-CA-03-17800	17.8		123	73	48	18		3/4-20UNEF	
DH04A-CA-03-17900	17.9		123	73	48	18			
DH04A-CA-03-18000	18.0		123	73	48	18	M20 x 2		
DH04A-CA-03-18100	18.1		131	79	50	20			
DH04A-CA-03-18200	18.2		131	79	50	20			
DH04A-CA-03-18300	18.3		131	73	50	20			
DH04A-CA-03-18400	18.4		131	79	50	20			
DH04A-CA-03-18500	18.5		131	79	50	20	M20 x 1.5		
DH04A-CA-03-18600	18.6		131	79	50	20		3/8-16UNC	
DH04A-CA-03-18700	18.7		131	79	50	20			
DH04A-CA-03-18800	18.8		131	79	50	20			
DH04A-CA-03-18900	18.9		131	79	50	20			M20 x 2.5
DH04A-CA-03-19000	19.0		131	79	50	20	M20 x 1		
DH04A-CA-03-19050	19.05	3/4"	131	79	50	20			
DH04A-CA-03-19100	19.1		131	79	50	20			
DH04A-CA-03-19200	19.2		131	79	50	20			
DH04A-CA-03-19300	19.3		131	79	50	20			M20 x 1.5
DH04A-CA-03-19400	19.4		131	79	50	20			
DH04A-CA-03-19500	19.5		131	79	50	20	M22 x 2.5		
DH04A-CA-03-19600	19.6		131	79	50	20		7/8-9UNC	
DH04A-CA-03-19700	19.7		131	79	50	20			
DH04A-CA-03-19800	19.8		131	79	50	20			
DH04A-CA-03-19900	19.9		131	79	50	20			
DH04A-CA-03-20000	20.0		131	79	50	20	M22 x 2		

碳素钢 Carbon Steel	合金钢 Alloy Steel	模具钢 Die Steel		预硬钢 Pre-hardened Steel		工具钢 Tool Steel	不锈钢 ~35HRC Stainless Steel ~35HRC	铸铁 球墨铸铁 Cast Iron Ductile Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	钛合金 Titanium Alloy	耐热合金 Heat Resistant Alloy
		~30HRC	~40HRC	~45HRC	~52HRC	~60HRC	~68HRC					
				⊙	⊙	⊙						

⊙ 非常合适 ○ 适合



109 Carbide Mill Model Description 硬质合金铣刀型号说明

110 Milling Product List 铣刀产品列表

MILLS 铣刀



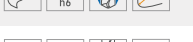
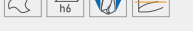
硬质合金铣刀型号说明

Carbide Mill Model Description

M	U	1	S	A	-	C	A	N	-	L	4	-	1200
1	2	3	4	5		6	7	8		9	10		11

1	2	3	4	5
Tool group 刀具组	Drill type 刀具类型	Peripheral edge type 周刃类型	Cutter head type 刀头类型	Codename 代次
M Milling(铣刀)	U Universal (通用型) M Stainless steel(不锈钢型) N Aluminum alloy(铝合金型) S Superalloy(高温合金型) H Hard alloy(高硬型) P Steel(钢件型) K Casting(铸铁型) O Graphite(石墨)	1 Roughing 波刃型 2 Tapper 锥度型 3 Round 圆柱型	S Sharp corner protection 尖角保护型 F Sharp corners 尖角型 B Ball nose 球头型 R Corner radius 圆角型 C Chamfer 倒角型	

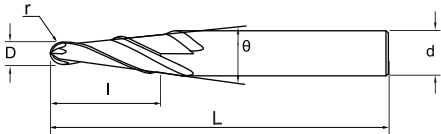
6	7	5	9	10	11
Coolant 冷却	Tool shank type 刀柄类型	Neck type 缩颈类型	Structure standard 结构标准	Edges 刀具刃数	Diameter 刀具刃径
C With coolant 内冷 N Without coolant 外冷	A Round Shank 圆直柄 B Weldon Shank 削平柄 E Bevel Shank 斜削柄 M Taper Shank 莫氏锥柄	N Necking 缩颈 省略 No Necking 无缩颈	S Standard length 标准型 L Lengthened 加长型 X Super long 特长型 F Short-edged 短刃型	2 2刃 3 3刃 4 4刃 5 5刃 6 6刃	

硬质合金铣刀 Carbide Mill				
MS2BA-NA-S2	二刃标准长锥度球头铣刀 Two-edge standard length tapper ball nose mill			113
MS2BA-NA-S4	四刃标准长锥度球头铣刀 Four-edge standard length tapper ball nose mill			112
MS3RA-NAN-4	四刃深沟圆角铣刀 Four-edge deep flute corner radius mill			112
MS3CA-NA-S5	五刃标准长倒角铣刀 Five-edge standard length chamfer mill			113
MS3RA-NA-S5	五刃标准长圆角铣刀 Five-edge standard length corner radius mill			114
MS3SA-NA-S4	四刃标准长尖角保护铣刀 Four-edge standard length sharp corner protection mill			114
MS3SA-NA-L4	四刃深沟长尖角保护铣刀 Four-edge deep flute sharp corner protection mill			115
MS3BA-NAN-L4	四刃深沟加长球头铣刀 Four-edge deep flute lengthened ball nose mill			115
MM3CA-NA-S4	四刃标准长倒角铣刀 Four-edge standard length chamfer mill			116
MM3RA-NA-S4	四刃标准长圆角铣刀 Four-edge standard length corner radius mill			116
MM3BA-NA-S4	四刃标准长球头铣刀 Four-edge standard length ball nose mill			117
MM3CA-NAN-L4	四刃深沟加长倒角铣刀 Four-edge deep flute lengthened chamfer mill			117
MN3FA-NA-S2	二刃标准长尖角铣刀 Two-edge standard length sharp corners mill			118
MN3FA-NA-L2	二刃加长尖角铣刀 Two-edge lengthened sharp corner mill			118
MN3BA-NA-S2	二刃标准长球头铣刀 Two-edge standard length ball nose mill			119
MN3RA-NA-S2	二刃标准长圆角铣刀 Two-edge standard length corner radius mill			119
MN3FA-NA-S3	三刃标准长尖角铣刀 Three-edge standard length sharp corner mill			120
MN3FA-NA-L3	三刃加长尖角铣刀 Three-edge lengthened sharp corner mill			120
MN3RA-NA-S3	三刃标准长圆角铣刀 Three-edge standard length corner radius mill			121
MN3FA-NAN-L3	三刃深沟加长尖角铣刀 Three-edge deep flute lengthened sharp corner mill			121
MN1CA-NA-S3	三刃标准长倒角粗铣刀 Three-edge standard length chamfer mill			122
MH3BA-NA-S2	二刃标准长球头铣刀 Two-edge standard length ball nose mill			122
MH3BA-NA-L2	二刃加长球头铣刀 Two-edge lengthened ball nose mill			123
MH3SA-NA-S4	四刃标准长尖角保护铣刀 Four-edge standard long sharp corner protection mill			123

硬质合金铣刀 Carbide Mill						
MH3SA-NA-L4	四刃加长尖角保护铣刀 Four-edg lengthened sharp corner protection mill		   	124		
MH3RA-NA-S4	四刃标准长圆角铣刀 Four-edge standard length corner radius mill		   	124		
MH3RA-NAN-L4	四刃深沟加长圆角铣刀 Four-edge deep flute lengthened corner radius mill		   	125		
MH3SA-NA-S6	六刃标准长尖角保护铣刀 Six-edge standard length sharp corner protection mill		   	125		
MH3SA-NA-L6	六刃加长尖角保护铣刀 Six-edge lengthened sharp corner protection mill		   	126		
MP3SA-NA-2	二刃超小径刀保护铣刀 Two-edge ultra-small diameter sharp corner protection mill		   	126		
MP3BA-NA-2	二刃超小径球头铣刀 Two-edge ultra-small diameter ball nose mill		   	127		
MP3BA-NAN-2	二刃深沟超小径球头铣刀 Two-edge deep flute ultra-small diameter ball nose mill		   	127		
MP3BA-NAN-L2	二刃超小径加长球头铣刀 Two-edge ultra-small diameter lengthened ball nose mill		   	128		
MP3SA-NA-3	三刃大螺旋铣刀 Three-edge spiral mill		  	128		
MP3SA-NA-S4	四刃标准长尖角铣刀 Four-edge standard length sharp corner mill		   	129		
MP3BA-NA-S4	四刃标准长球头铣刀 Four-edge standard length ball nose mill		   	130		
MO3BA-NA-2	二刃深沟球头铣刀 Two-edge deep flute ball nose mill		   	131		
MO3SA-NAN-S4	四刃深沟标准长尖角保护铣刀 Four-edge deep flute standard length sharp corner protection mill		   	131		
MO3BA-NAN-4	四刃深沟球头铣刀 Four-edge deep flute ball nose mill		   	132		
MU1CA-NA	多刃标准长粗铣刀 Multi-edge standard long Rough milling cutter		  	132		

Mill

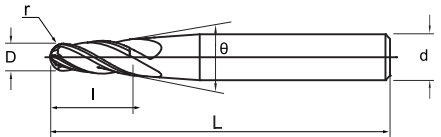
两刃标准长锥度球头铣刀
Two-edge standard taper ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀角圆角 刀角圆角
MS2BA-NA-S2-0100	2	1	6	12	50	0.5
MS2BA-NA-S2-0100	2	2	6	12	50	1.0
MS2BA-NA-S2-0300	2	3	6	20	60	1.5
MS2BA-NA-S2-0400	2	4	6	20	60	2.0
MS2BA-NA-S2-0600	2	6	8	32	75	3.0

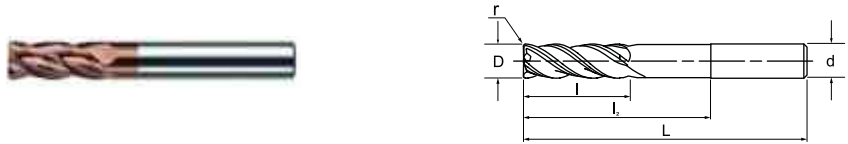
Mill

四刃标准长锥度球头铣刀
Four-edge standard taper ball nose mill



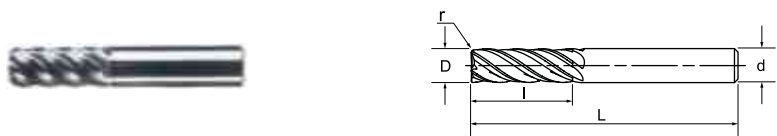
Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀角圆角 刀角圆角
MS2BA-NA-S4-0100	2	1	6	12	50	0.5
MS2BA-NA-S4-0100	2	2	6	12	50	1.0
MS2BA-NA-S4-0300	2	3	6	20	60	1.5
MS2BA-NA-S4-0400	2	4	6	20	60	2.0
MS2BA-NA-S4-0600	2	6	8	32	75	3.0

Mill 四刃深沟圆角铣刀
Four-edge deep flute corner radius mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	l ₂ 有效切深	L 总长	r 刀尖圆角
MS3RA-NAN-4-0600	4	6	6	13	20	57	1.0
MS3RA-NAN-4-0800	4	8	8	19	25	63	1.0
MS3RA-NAN-4-1000	4	10	10	22	30	72	1.0
MS3RA-NAN-4-1200	4	12	12	26	35	83	1.0
MS3RA-NAN-4-1400	4	14	14	26	36	83	1.0
MS3RA-NAN-4-1600	4	16	16	35	43	92	1.0
MS3RA-NAN-4-2000	4	20	20	44	56	110	1.0
MS3RA-NAN-4-2500	4	25	25	55	70	130	1.0

Mill 五刃标准长圆角铣刀
Five-edge Standard length corner radius mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MS3RA-NA-S5-0600	5	6	6	13	57	1.0
MS3RA-NA-S5-0800	5	8	8	19	63	1.0
MS3RA-NA-S5-1000	5	10	10	22	72	1.0
MS3RA-NA-S5-1200	5	12	12	26	83	1.0
MS3RA-NA-S5-1600	5	16	16	36	92	1.0
MS3RA-NA-S5-2000	5	20	20	44	104	1.0
MS3RA-NA-S5-2500	5	25	25	54	121	1.0

Mill 五刃标准长倒角铣刀
Five-edge Standard length chamfer mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	C 倒角
MS3CA-NA-S5-0600	5	6	6	13	57	0.2
MS3CA-NA-S5-0800	5	8	8	19	63	0.2
MS3CA-NA-S5-1000	5	10	10	22	72	0.3
MS3CA-NA-S5-1200	5	12	12	26	83	0.4
MS3CA-NA-S5-1600	5	16	16	36	92	0.4
MS3CA-NA-S5-2000	5	20	20	44	104	0.5
MS3CA-NA-S5-2500	5	25	25	54	121	0.5

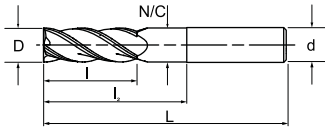
Mill 四刃标准长尖角保护铣刀
Four-edge standard length sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MS3SA-NA-S4-0300	4	3	4	6	58
MS3SA-NA-S4-0400	4	4	4	8	58
MS3SA-NA-S4-0600	4	6	6	12	58
MS3SA-NA-S4-0800	4	8	8	16	64
MS3SA-NA-S4-1000	4	10	10	20	73
MS3SA-NA-S4-1200	4	12	12	24	84
MS3SA-NA-S4-1400	4	14	14	28	84
MS3SA-NA-S4-1600	4	16	16	32	93
MS3SA-NA-S4-1800	4	18	18	36	93
MS3SA-NA-S4-2000	4	20	20	40	105
MS3SA-NA-S4-2500	4	25	25	50	105

Mill

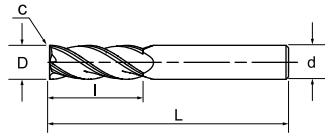
四刃深沟长尖角保护铣刀
Four-edge deep flute sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	N/D 缩颈	l 刃长	l ₂ 有效切深	L 总长
MS3SA-NA-L4-0400	4	4	4	3.74	6	50	100
MS3SA-NA-L4-0600	4	6	6	5.7	9	50	100
MS3SA-NA-L4-0800	4	8	8	7.6	12	50	100
MS3SA-NA-L4-1000	4	10	10	9.6	15	50	100
MS3SA-NA-L4-1200	4	12	12	11.5	18	50	100
MS3SA-NA-L4-1400	4	14	14	13.5	18	50	100
MS3SA-NA-L4-1600	4	16	16	15.4	24	50	100
MS3SA-NA-L4-1800	4	18	18	17.3	27	80	125
MS3SA-NA-L4-2000	4	20	20	19.2	30	80	125
MS3SA-NA-L4-2500	4	25	25	24	35	80	125

Mill

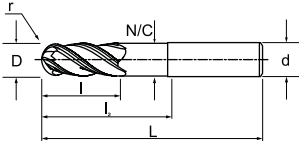
四刃标准长倒角铣刀
Four-edge standard length chamfer mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	C 倒角
MM3CA-NA-S4-0300	4	3	6	6	50	0.10
MM3CA-NA-S4-0400	4	4	6	8	50	0.15
MM3CA-NA-S4-0500	4	5	6	10	50	0.15
MM3CA-NA-S4-0600	4	6	6	12	50	0.20
MM3CA-NA-S4-0800	4	8	8	16	60	0.20
MM3CA-NA-S4-1000	4	10	10	20	75	0.30
MM3CA-NA-S4-1200	4	12	12	24	75	0.35
MM3CA-NA-S4-1600	4	16	16	32	100	0.40
MM3CA-NA-S4-2000	4	20	20	40	100	0.50

Mill

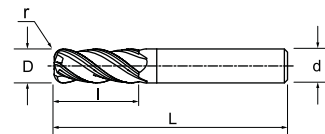
四刃深沟加长球头铣刀
Five-edge deep flute lengthened ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	N/D 缩颈	l 刃长	l ₂ 有效切深	L 总长	r 刀尖圆角
MS3BA-NAN-L4-0400	4	4	4	3.74	6	50	100	2
MS3BA-NAN-L4-0600	4	6	6	5.7	9	80	125	3
MS3BA-NAN-L4-0800	4	8	8	7.6	12	50	100	4
MS3BA-NAN-L4-1000	4	10	10	9.6	15	50	100	5
MS3BA-NAN-L4-1200	4	12	12	11.5	18	50	100	6
MS3BA-NAN-L4-1400	4	14	14	13.5	18	50	100	7
MS3BA-NAN-L4-1600	4	16	16	15.4	24	50	100	8
MS3BA-NAN-L4-1800	4	18	18	17.3	27	80	125	9
MS3BA-NAN-L4-2000	4	20	20	19.2	30	80	125	10
MS3BA-NAN-L4-2500	4	25	25	24	35	80	125	12.5

Mill

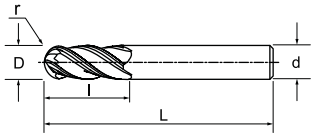
四刃标准长圆角铣刀
Four-edge standard length corner radius mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MM3RA-NA-S4-0400	4	4	6	10	55	0.5
MM3RA-NA-S4-0500	4	5	6	12	55	1.0
MM3RA-NA-S4-0600	4	6	6	12	55	1.0
MM3RA-NA-S4-0800	4	8	8	16	60	1.0
MM3RA-NA-S4-1000	4	10	10	20	75	1.0
MM3RA-NA-S4-1200	4	12	12	24	75	1.0
MM3RA-NA-S4-1600	4	16	16	32	100	1.0
MM3RA-NA-S4-2000	4	20	20	40	100	1.0

Mill

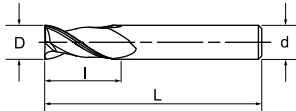
四刃标准长球头铣刀
Four-edge standard length ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MM3BA-NA-S4-0300	4	3	6	8	57	1.5
MM3BA-NA-S4-0400	4	4	6	11	57	2
MM3BA-NA-S4-0500	4	5	6	13	57	2.5
MM3BA-NA-S4-0600	4	6	6	13	57	3
MM3BA-NA-S4-0800	4	8	8	19	63	4
MM3BA-NA-S4-1000	4	10	10	22	72	5
MM3BA-NA-S4-1200	4	12	12	26	83	6
MM3BA-NA-S4-1600	4	16	16	32	92	8
MM3BA-NA-S4-2000	4	20	20	38	104	10
MM3BA-NA-S4-2500	4	25	25	38	104	12.5

Mill

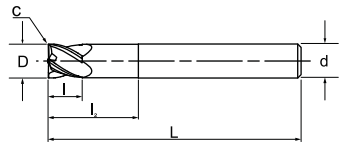
二刃标准长尖角铣刀
Two-edge standard length sharp corner mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MN3FA-NA-S2-0100	2	1	4	3	50
MN3FA-NA-S2-0150	2	1.5	4	4.5	50
MN3FA-NA-S2-0200	2	2	4	6	50
MN3FA-NA-S2-0250	2	2.5	4	7.5	50
MN3FA-NA-S2-0300	2	3	4	9	50
MN3FA-NA-S2-0350	2	3.5	4	10.5	50
MN3FA-NA-S2-0400	2	4	4	12	50
MN3FA-NA-S2-0500	2	5	6	15	50
MN3FA-NA-S2-0600	2	6	6	18	50
MN3FA-NA-S2-0800	2	8	8	24	60
MN3FA-NA-S2-1000	2	10	10	30	75
MN3FA-NA-S2-1200	2	12	12	36	75
MN3FA-NA-S2-1400	2	14	14	42	100
MN3FA-NA-S2-1600	2	16	16	45	100
MN3FA-NA-S2-1800	2	18	18	45	100
MN3FA-NA-S2-2000	2	20	20	45	100

Mill

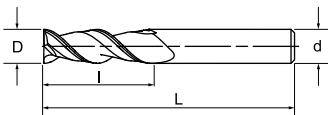
四刃深沟加长倒角铣刀
Four-edge deep flute lengthened chamfer mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	l ₂ 有效切深	L 总长	c 倒角
MM3CA-NAN-L4-0300	4	3	6	6	12	54	0.10
MM3CA-NAN-L4-0400	4	4	6	8	15	54	0.15
MM3CA-NAN-L4-0500	4	5	6	10	17	54	0.15
MM3CA-NAN-L4-0600	4	6	6	10	21	57	0.20
MM3CA-NAN-L4-0800	4	8	8	12	27	63	0.20
MM3CA-NAN-L4-1000	4	10	10	14	32	72	0.30
MM3CA-NAN-L4-1200	4	12	12	16	38	83	0.35
MM3CA-NAN-L4-1600	4	16	16	22	44	92	0.40
MM3CA-NAN-L4-2000	4	20	20	28	54	104	0.50

Mill

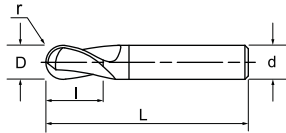
二刃加长尖角铣刀
Two-edge lengthened sharp corner mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MN3FA-NA-L2-0400	2	4	4	16	100
MN3FA-NA-L2-0600	2	6	6	24	100
MN3FA-NA-L2-0800	2	8	8	32	100
MN3FA-NA-L2-1000	2	10	10	40	100
MN3FA-NA-L2-1200	2	12	12	45	100

Mill

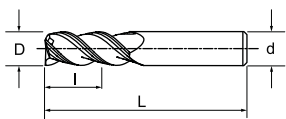
二刃标准长球头铣刀
Two-edge standard length ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MN3BA-NA-S2-0100	2	1	4	2	50
MN3BA-NA-S2-0200	2	2	4	4	50
MN3BA-NA-S2-0300	2	3	4	6	50
MN3BA-NA-S2-0400	2	4	4	8	50
MN3BA-NA-S2-0500	2	5	6	10	50
MN3BA-NA-S2-0600	2	6	6	12	50
MN3BA-NA-S2-0800	2	8	8	16	60
MN3BA-NA-S2-1000	2	10	10	20	75
MN3BA-NA-S2-1200	2	12	12	24	75
MN3BA-NA-S2-1400	2	14	14	28	100
MN3BA-NA-S2-1600	2	16	16	32	100
MN3BA-NA-S2-1800	2	18	18	36	100
MN3BA-NA-S2-2000	2	20	20	40	100

Mill

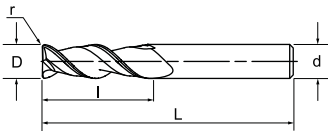
三刃标准长尖角铣刀
Three-edge standard length sharp corner mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MN3FA-NA-S3-0100	3	1	4	3	50
MN3FA-NA-S3-0150	3	1.5	4	4.5	50
MN3FA-NA-S3-0200	3	2	4	6	50
MN3FA-NA-S3-0250	3	2.5	4	7.5	50
MN3FA-NA-S3-0300	3	3	4	9	50
MN3FA-NA-S3-0350	3	3.5	4	10.5	50
MN3FA-NA-S3-0400	3	4	4	12	50
MN3FA-NA-S3-0500	3	5	6	15	50
MN3FA-NA-S3-0600	3	6	6	18	50
MN3FA-NA-S3-0800	3	8	8	24	60
MN3FA-NA-S3-1000	3	10	10	30	75
MN3FA-NA-S3-1200	3	12	12	36	75
MN3FA-NA-S3-1400	3	14	14	42	100
MN3FA-NA-S3-1600	3	16	16	45	100
MN3FA-NA-S3-1800	3	18	18	45	100
MN3FA-NA-S3-2000	3	20	20	45	100

Mill

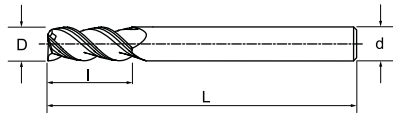
二刃标准长圆角铣刀
Two-edge standard length corner radius mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MN3RA-NA-S2-0400	2	4	4	12	50	0.5
MN3RA-NA-S2-0600	2	6	6	18	50	1
MN3RA-NA-S2-0800	2	8	8	24	60	1
MN3RA-NA-S2-1000	2	10	10	30	75	1
MN3RA-NA-S2-1200	2	12	12	36	75	1
MN3RA-NA-S2-1400	2	14	14	42	100	1
MN3RA-NA-S2-1600	2	16	16	45	100	1
MN3RA-NA-S2-1800	2	18	18	45	100	1
MN3RA-NA-S2-2000	2	20	20	45	100	1

Mill

三刃加长尖角铣刀
Three-edge lengthened sharp corner mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MN3FA-NA-L3-0400	3	4	4	16	100
MN3FA-NA-L3-0600	3	6	6	24	100
MN3FA-NA-L3-0800	3	8	8	32	100
MN3FA-NA-L3-1000	3	10	10	40	100
MN3FA-NA-L3-1200	3	12	12	45	100

Mill

三刃标准长圆角铣刀

Three-edge standard length corner radius mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MN3RA-NA-S3-0400	3	4	4	12	50	0.5
MN3RA-NA-S3-0600	3	6	6	18	50	1
MN3RA-NA-S3-0800	3	8	8	24	60	1
MN3RA-NA-S3-1000	3	10	10	30	75	1
MN3RA-NA-S3-1200	3	12	12	36	75	1
MN3RA-NA-S3-1400	3	14	14	42	100	1
MN3RA-NA-S3-1600	3	16	16	45	100	1
MN3RA-NA-S3-1800	3	18	18	45	100	1
MN3RA-NA-S3-2000	3	20	20	45	100	1

Mill

三刃标准长倒角粗铣刀

Three-edge standard length chamfer mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MN1CA-NA-S3-0400	3	4	4	11	50
MN1CA-NA-S3-0600	3	6	6	13	57
MN1CA-NA-S3-0800	3	8	8	19	63
MN1CA-NA-S3-1000	3	10	10	22	72
MN1CA-NA-S3-1200	3	12	12	26	83
MN1CA-NA-S3-1600	3	16	16	32	92
MN1CA-NA-S3-2000	3	20	20	38	104

Mill

三刃深沟加长尖角铣刀

Three-edge deep flute lengthened sharp corner mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	N/D 缩颈	l 刃长	l ₂ 有效切深	L 总长
MN3FA-NAN-L3-0400	3	4	4	3.74	6	50	100
MN3FA-NAN-L3-0600	3	6	6	5.7	9	50	100
MN3FA-NAN-L3-0800	3	8	8	7.6	12	50	100
MN3FA-NAN-L3-1000	3	10	10	9.6	15	50	100
MN3FA-NAN-L3-1200	3	12	12	11.5	18	50	100
MN3FA-NAN-L3-1400	3	14	14	13.5	18	50	100
MN3FA-NAN-L3-1600	3	16	16	15.4	24	50	100
MN3FA-NAN-L3-1800	3	18	18	17.3	27	80	125
MN3FA-NAN-L3-2000	3	20	20	19.2	30	80	125

Mill

二刃标准长球头铣刀

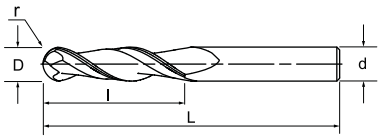
Two-edge standard length ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MH3BA-NA-S2-0100	2	1	4	2	50	0.5
MH3BA-NA-S2-0150	2	1.5	4	3	50	0.75
MH3BA-NA-S2-0200	2	2	4	4	50	1
MH3BA-NA-S2-0250	2	2.5	4	5	50	1.25
MH3BA-NA-S2-0300	2	3	4	6	50	1.5
MH3BA-NA-S2-0400	2	4	4	8	50	2
MH3BA-NA-S2-0500	2	5	6	10	50	2.5
MH3BA-NA-S2-0550	2	5.5	6	12	50	2.75
MH3BA-NA-S2-0600	2	6	6	12	50	3
MH3BA-NA-S2-0800	2	8	8	16	60	4
MH3BA-NA-S2-0900	2	9	10	18	75	4.5
MH3BA-NA-S2-1000	2	10	10	20	75	5
MH3BA-NA-S2-1200	2	12	12	24	75	6

Mill

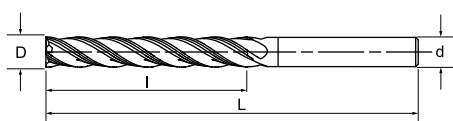
二刃加长球头铣刀
Two-edge lengthened ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MH3BA-NA-L2-0600	2	6	6	12	75	3
MH3BA-NA-L2-0800	2	8	8	16	100	4
MH3BA-NA-L2-1000	2	10	10	20	100	5
MH3BA-NA-L2-1200	2	12	12	24	100	6

Mill

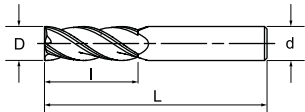
四刃加长尖角保护铣刀
Four-edge lengthened sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MH3SA-NA-L4-0300	4	3	6	12	75
MH3SA-NA-L4-0400	4	4	6	15	75
MH3SA-NA-L4-0500	4	5	6	20	75
MH3SA-NA-L4-0600	4	6	6	20	75
MH3SA-NA-L4-0800	4	8	8	25	100
MH3SA-NA-L4-1000	4	10	10	30	100
MH3SA-NA-L4-1200	4	12	12	35	100

Mill

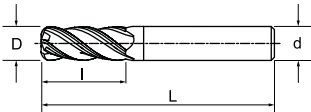
四刃标准长尖角保护铣刀
Four-edge standard long sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MH3SA-NA-S4-0100	4	1	4	3	50
MH3SA-NA-S4-0150	4	1.5	4	4	50
MH3SA-NA-S4-0200	4	2	4	6	50
MH3SA-NA-S4-0250	4	2.5	4	8	50
MH3SA-NA-S4-0300	4	3	4	8	50
MH3SA-NA-S4-0350	4	3.5	6	10	50
MH3SA-NA-S4-0400	4	4	4	11	50
MH3SA-NA-S4-0450	4	4.5	6	11	50
MH3SA-NA-S4-0500	4	5	6	13	50
MH3SA-NA-S4-0550	4	5.5	6	16	50
MH3SA-NA-S4-0600	4	6	6	16	50
MH3SA-NA-S4-0700	4	7	8	20	60
MH3SA-NA-S4-0800	4	8	8	20	60
MH3SA-NA-S4-0900	4	9	10	22	75
MH3SA-NA-S4-1000	4	10	10	25	75
MH3SA-NA-S4-1100	4	11	12	26	75
MH3SA-NA-S4-1200	4	12	12	30	75
MH3SA-NA-S4-1600	4	16	16	45	100

Mill

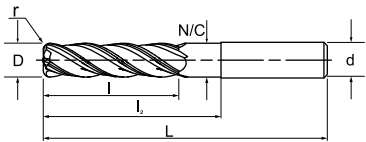
四刃标准长圆角铣刀
Four-edge standard length corner radius mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MH3RA-NA-S4-0400	4	4	4	10	50	0.5
MH3RA-NA-S4-0600	4	6	6	16	50	1
MH3RA-NA-S4-0800	4	8	8	20	60	1
MH3RA-NA-S4-1000	4	10	10	25	75	1
MH3RA-NA-S4-1200	4	12	12	30	75	1

Mill

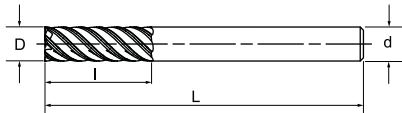
四刃深沟加长圆角铣刀
Four-edge deep flute lengthened corner radius mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	r 刀尖圆角
MH3RA-NAN-L4-0600	4	6	6	16	50	1
MH3RA-NAN-L4-0800	4	8	8	20	60	1
MH3RA-NAN-L4-1000	4	10	10	25	75	1
MH3RA-NAN-L4-1200	4	12	12	30	75	1

Mill

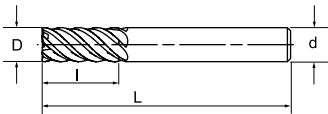
六刃加长尖角保护铣刀
Six-edge lengthened sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MH3SA-NA-L6-0600	6	6	6	24	75
MH3SA-NA-L6-0800	6	8	8	32	75
MH3SA-NA-L6-1000	6	10	10	40	100
MH3SA-NA-L6-1200	6	12	12	45	100

Mill

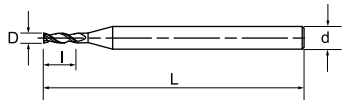
六刃标准长尖角保护铣刀
Six-edge standard length sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MH3SA-NA-S6-0600	6	6	6	18	60
MH3SA-NA-S6-0800	6	8	8	20	60
MH3SA-NA-S6-1000	6	10	10	30	75
MH3SA-NA-S6-1200	6	12	12	32	75

Mill

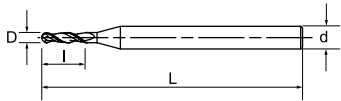
二刃超小径刀尖保护铣刀
Two-edge ultra-small diameter sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MP3SA-NA-2-0010	2	0.1	4	0.2	40
MP3SA-NA-2-0015	2	0.15	4	0.3	40
MP3SA-NA-2-0020	2	0.2	4	0.4	40
MP3SA-NA-2-0025	2	0.25	4	0.5	40
MP3SA-NA-2-0030	2	0.3	4	0.6	40
MP3SA-NA-2-0040	2	0.4	4	0.8	40
MP3SA-NA-2-0050	2	0.5	4	1	40
MP3SA-NA-2-0060	2	0.6	4	1.2	40
MP3SA-NA-2-0070	2	0.7	4	1.4	40
MP3SA-NA-2-0080	2	0.8	4	1.6	40
MP3SA-NA-2-0090	2	0.9	4	1.8	40

Mill

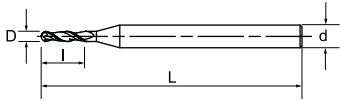
二刃超小径球头铣刀
Two-edge ultra-small diameter ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MP3BA-NA-2-0010	2	0.1	4	0.2	40
MP3BA-NA-2-0015	2	0.15	4	0.3	40
MP3BA-NA-2-0020	2	0.2	4	0.4	40
MP3BA-NA-2-0025	2	0.25	4	0.5	40
MP3BA-NA-2-0030	2	0.3	4	0.6	40
MP3BA-NA-2-0040	2	0.4	4	0.8	40
MP3BA-NA-2-0050	2	0.5	4	1	40
MP3BA-NA-2-0060	2	0.6	4	1.2	40
MP3BA-NA-2-0070	2	0.7	4	1.4	40
MP3BA-NA-2-0080	2	0.8	4	1.6	40
MP3BA-NA-2-0090	2	0.9	4	1.8	40

Mill

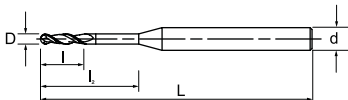
二刃超小径加长球头铣刀
Two-edge ultra-small diameter lengthened ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	l ₂ 有效切深	L 总长
MP3BA-NAN-L2-0010	2	0.1	4	0.1	1	40
MP3BA-NAN-L2-0020	2	0.2	4	0.2	1	40
MP3BA-NAN-L2-0030	2	0.3	4	0.3	1	40
MP3BA-NAN-L2-0040	2	0.4	4	0.4	1	40

Mill

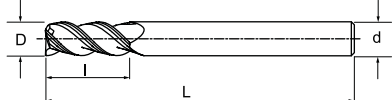
二刃深沟超小径球头铣刀
Two-edge deep flute ultra-small diameter ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MP3BA-NAN-2-0010	2	0.1	4	0.2	40
MP3BA-NAN-2-0020	2	0.2	4	0.4	40
MP3BA-NAN-2-0030	2	0.3	4	0.6	40
MP3BA-NAN-2-0040	2	0.4	4	0.8	40
MP3BA-NAN-2-0050	2	0.5	4	1	40
MP3BA-NAN-2-0060	2	0.6	4	1.2	40
MP3BA-NAN-2-0070	2	0.7	4	1.4	40
MP3BA-NAN-2-0080	2	0.8	4	1.6	40
MP3BA-NAN-2-0090	2	0.9	4	1.8	40

Mill

三刃大螺旋角铣刀
Three-edge spiral mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MP3SA-NA-3-0600	3	6	6	13	50
MP3SA-NA-3-0800	3	8	8	19	60
MP3SA-NA-3-1000	3	10	10	22	70
MP3SA-NA-3-1200	3	12	12	25	75
MP3SA-NA-3-1600	3	16	16	32	90

Mill 四刃标准长尖角铣刀
Four-edge standard length sharp corner mill



Product Type 产 品 型 号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MP3SA-NA-S4-0300	4	3	4	7	50
MP3SA-NA-S4-0350	4	3.5	4	8	50
MP3SA-NA-S4-0400	4	4	4	10	50
MP3SA-NA-S4-0450	4	4.5	6	11	50
MP3SA-NA-S4-0500	4	5	6	12	50
MP3SA-NA-S4-0550	4	5.5	6	13	50
MP3SA-NA-S4-0600	4	6	6	15	50
MP3SA-NA-S4-0650	4	6.5	8	16	60
MP3SA-NA-S4-0700	4	7	8	17	60
MP3SA-NA-S4-0750	4	7.5	8	18	60
MP3SA-NA-S4-0800	4	8	8	20	60
MP3SA-NA-S4-0850	4	8.5	10	21	75
MP3SA-NA-S4-0900	4	9	10	22	75
MP3SA-NA-S4-0950	4	9.5	10	23	75
MP3SA-NA-S4-1000	4	10	10	25	75
MP3SA-NA-S4-1050	4	10.5	12	26	75
MP3SA-NA-S4-1100	4	11	12	27	75
MP3SA-NA-S4-1200	4	12	12	30	75
MP3SA-NA-S4-1300	4	13	14	32	100
MP3SA-NA-S4-1400	4	14	14	35	100
MP3SA-NA-S4-1500	4	15	16	37	100
MP3SA-NA-S4-1600	4	16	16	40	100
MP3SA-NA-S4-2000	4	20	20	45	100

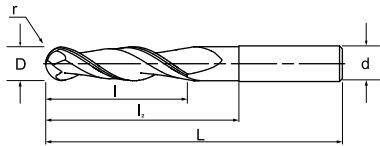
Mill 四刃标准长球头铣刀
Four-edge standard length ball nose mill



Product Type 产 品 型 号	Z 刃数	D 刃径	l 刃长	d 柄径	L 总长	r 刀尖圆角
MP3BA-NA-S4-0300	4	3	9	4	50	1.5
MP3BA-NA-S4-0350	4	3.5	10	4	50	1.75
MP3BA-NA-S4-0400	4	4	12	4	50	2
MP3BA-NA-S4-0450	4	4.5	13	6	50	2.25
MP3BA-NA-S4-0500	4	5	15	6	50	2.5
MP3BA-NA-S4-0550	4	5.5	16	6	50	2.75
MP3BA-NA-S4-0600	4	6	18	6	50	3
MP3BA-NA-S4-0650	4	6.5	20	8	60	3.25
MP3BA-NA-S4-0700	4	7	21	8	60	3.5
MP3BA-NA-S4-0750	4	7.5	22	8	60	3.75
MP3BA-NA-S4-0800	4	8	24	8	60	4
MP3BA-NA-S4-0850	4	8.5	25	10	75	4.25
MP3BA-NA-S4-0900	4	9	27	10	75	4.5
MP3BA-NA-S4-0950	4	9.5	28	10	75	4.75
MP3BA-NA-S4-1000	4	10	30	10	75	5
MP3BA-NA-S4-1050	4	10.5	31	12	75	5.25
MP3BA-NA-S4-1100	4	11	33	12	75	5.5
MP3BA-NA-S4-1200	4	12	36	12	75	6
MP3BA-NA-S4-1300	4	13	39	14	100	6.5
MP3BA-NA-S4-1400	4	14	42	14	100	7
MP3BA-NA-S4-1500	4	15	45	16	100	7.5
MP3BA-NA-S4-1600	4	16	48	16	100	8
MP3BA-NA-S43-2000	4	20	50	20	100	10

Mill

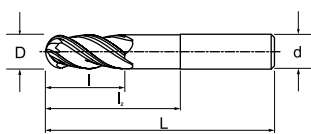
二刃深沟球头铣刀
Two-edge deep flute ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	l ₂ 有效切深	L 总长	r 刀尖圆角
MO3BA-NA-2-0050	2	0.5	4	1	6	50	0.25
MO3BA-NA-2-0060	2	0.6	4	1.2	6	50	0.3
MO3BA-NA-2-0080	2	0.8	4	1.6	4	50	0.4
MO3BA-NA-2-0100	2	1.0	4	2	8	50	0.5
MO3BA-NA-2-0150	2	1.5	4	3	8	60	0.75
MO3BA-NA-2-0200	2	2.0	4	4	6	50	1
MO3BA-NA-2-0300	2	3.0	3	6	10	60	1.5
MO3BA-NA-2-0400	2	4.0	4	8	25	75	2
MO3BA-NA-2-0500	2	5.0	6	10	20	60	2.5
MO3BA-NA-2-0600	2	6.0	6	12	15	60	3
MO3BA-NA-2-0800	2	8.0	8	16	40	75	4
MO3BA-NA-2-1000	2	10.0	10	20	40	80	5
MO3BA-NA-2-1200	2	12.0	12	25	40	80	6

Mill

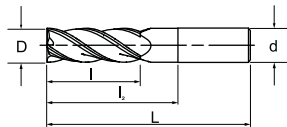
四刃深沟球头铣刀
Four-edge deep flute ball nose mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	l ₂ 有效切深	L 总长
MO3BA-NAN-4-0100	4	1.0	4	3	6	50
MO3BA-NAN-4-0150	4	1.5	4	3	5	60
MO3BA-NAN-4-0200	4	2.0	4	6	10	60
MO3BA-NAN-4-0300	4	3.0	3	9	12	60
MO3BA-NAN-4-0400	4	4.0	4	12	20	60
MO3BA-NAN-4-0600	4	6.0	6	20	30	60
MO3BA-NAN-4-0800	4	8.0	8	30	40	75
MO3BA-NAN-4-1000	4	10.0	10	25	40	60
MO3BA-NAN-4-1200	4	12.0	12	30	40	80

Mill

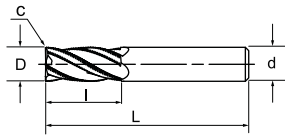
四刃深沟标准长尖角保护铣刀
Four-edge deep flute standard length sharp corner protection mill



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长
MO3SA-NAN-S4-0600	4	6	6	25	80
MO3SA-NAN-S4-0800	4	8	8	35	90
MO3SA-NAN-S4-1000	4	10	10	45	100
MO3SA-NAN-S4-1200	4	12	12	50	100
MO3SA-NAN-S4-1600	4	16	16	65	150
MO3SA-NAN-S4-2000	4	20	20	70	150

Mill

多刃标准长粗铣刀
Multi-edge standard long Rough milling cutter



Product Type 产品型号	Z 刃数	D 刃径	d 柄径	l 刃长	L 总长	F 齿形
MU1CA-NA-0600	4	6	6	13	60	细齿
MU1CA-NA-0800	4	8	8	19	65	细齿
MU1CA-NA-1000	4	10	10	22	70	细齿
MU1CA-NA-1400	4	12	12	26	80	细齿
MU1CA-NA-1600	5	16	16	42	110	细齿
MU1CA-NA-2000	6	20	20	48	110	细齿

- 135 Carbide Reamer Model Description 硬质合金铰刀型号说明
- 136 Right Spiral Flute Reamer 右螺旋槽铰刀
- 137 Straight Flute Reamer 直槽铰刀
- 138 Left Spiral Flute Reamer 左螺旋槽铰刀

REAMERS 铰刀

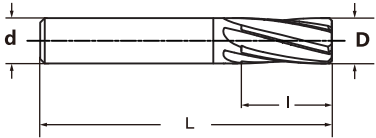
硬质合金铰刀型号说明

Carbide Reamer Model Description

R	U	1	A	-	N	A	-	4	0300
1	2	3	4		5	6		7	8

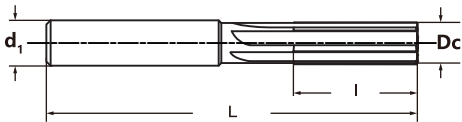
1	2	3	4
Tool group 刀具组	Tool type 刀具类型	Tool geometry 刀具槽型	Codename 代次
R Reamer(铰刀)	U Universal (通用型) M Stainless steel(不锈钢型) N Aluminum alloy(铝合金型) S Superalloy(高温合金型) H Hard alloy(高硬型) P Steel(钢件型) K Casting(铸铁型) O Graphite(石墨)	1 Right spiral flute 右旋型 2 Straight flute type 直槽型 3 Left spiral flute 左旋型	

5	6	7	8
Coolant 冷却	Tool shank type 刀柄类型	Drill edges 刀具刃数	Diameter 刀具刃径
C With coolant 内冷 N Without coolant 外冷	A Round Shank 圆直柄 B Weldon Shank 削平柄 E Bevel Shank 斜削柄 M Taper Shank 莫氏锥柄	4 4刃 6 6刃 8 8刃	



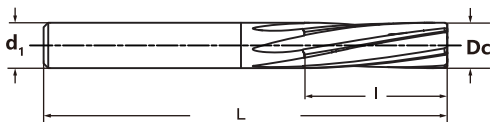
Product Type 产品型号	D 刃径	d 柄径	l 刃长	L 总长	Z 刃数
RU1A-NA-40200	2.0	4	20	56	4
RU1A-NA-60250	2.5	4	20	56	6
RU1A-NA-60300	3.0	4	20	56	6
RU1A-NA-60350	3.5	4	20	56	6
RU1A-NA-60400	4.0	4	20	56	6
RU1A-NA-60450	4.5	4	22	63	6
RU1A-NA-60500	5.0	4	22	63	6
RU1A-NA-60550	5.5	5	22	63	6
RU1A-NA-60600	6.0	5	22	63	6
RU1A-NA-60650	6.5	5	22	63	6
RU1A-NA-60700	7.0	6.3	25	71	6
RU1A-NA-60750	7.5	6.3	25	71	6
RU1A-NA-60800	8.0	6.3	25	71	6
RU1A-NA-60850	8.5	8	25	71	6
RU1A-NA-60900	9.0	8	25	71	6
RU1A-NA-60950	9.5	8	25	71	6
RU1A-NA-61000	10.0	8	25	71	6
RU1A-NA-61050	10.5	8	25	71	6
RU1A-NA-61100	11.0	10	28	80	6
RU1A-NA-61150	11.5	10	28	80	6
RU1A-NA-61200	12.0	10	28	80	6
RU1A-NA-61250	12.5	10	28	80	6
RU1A-NA-61300	13.0	10	28	80	6
RU1A-NA-61350	13.5	12.5	32	90	6
RU1A-NA-61400	14.0	12.5	32	90	6
RU1A-NA-61450	14.5	12.5	32	90	6
RU1A-NA-61500	15.0	12.5	32	90	6
RU1A-NA-61550	15.5	12.5	32	90	6
RU1A-NA-61600	16.0	12.5	32	90	6
RU1A-NA-61700	17.0	12.5	32	90	6
RU1A-NA-61800	18.0	16	36	100	6
RU1A-NA-61900	19.0	16	36	100	6
RU1A-NA-62000	20.0	16	36	100	6

Reamer直槽铰刀 Straight Flute Reamer



Product Type 产品型号	D 刃径	d 柄径	l 刃长	L 总长	Z 刃数
RU2A-NA-40200	2.0	4	20	56	4
RU2A-NA-60250	2.5	4	20	56	6
RU2A-NA-60300	3.0	4	20	56	6
RU2A-NA-60350	3.5	4	20	56	6
RU2A-NA-60400	4.0	4	20	56	6
RU2A-NA-60450	4.5	4	22	63	6
RU2A-NA-60500	5.0	4	22	63	6
RU2A-NA-60550	5.5	5	22	63	6
RU2A-NA-60600	6.0	5	22	63	6
RU2A-NA-60650	6.5	5	22	63	6
RU2A-NA-60700	7.0	6.3	25	71	6
RU2A-NA-60750	7.5	6.3	25	71	6
RU2A-NA-60800	8.0	6.3	25	71	6
RU2A-NA-60850	8.5	8	25	71	6
RU2A-NA-60900	9.0	8	25	71	6
RU2A-NA-60950	9.5	8	25	71	6
RU2A-NA-61000	10.0	8	25	71	6
RU2A-NA-61050	10.5	8	25	71	6
RU2A-NA-61100	11.0	10	28	80	6
RU2A-NA-61150	11.5	10	28	80	6
RU2A-NA-61200	12.0	10	28	80	6
RU2A-NA-61250	12.5	10	28	80	6
RU2A-NA-61300	13.0	10	28	80	6
RU2A-NA-61350	13.5	12.5	32	90	6
RU2A-NA-61400	14.0	12.5	32	90	6
RU2A-NA-61450	14.5	12.5	32	90	6
RU2A-NA-61500	15.0	12.5	32	90	6
RU2A-NA-61550	15.5	12.5	32	90	6
RU2A-NA-61600	16.0	12.5	32	90	6
RU2A-NA-61700	17.0	12.5	32	90	6
RU2A-NA-61800	18.0	16	36	100	6
RU2A-NA-61900	19.0	16	36	100	6
RU2A-NA-62000	20.0	16	36	100	6

Reamer左螺旋槽铰刀 Left Spiral Flute Reamer



Product Type 产品型号	D 刃径	d 柄径	l 刃长	L 总长	Z 刃数
RU3A-NA-40200	2.0	4	20	56	4
RU3A-NA-60250	2.5	4	20	56	6
RU3A-NA-60300	3.0	4	20	56	6
RU3A-NA-60350	3.5	4	20	56	6
RU3A-NA-60400	4.0	4	20	56	6
RU3A-NA-60450	4.5	4	22	63	6
RU3A-NA-60500	5.0	4	22	63	6
RU3A-NA-60550	5.5	5	22	63	6
RU3A-NA-60600	6.0	5	22	63	6
RU3A-NA-60650	6.5	5	22	63	6
RU3A-NA-60700	7.0	6.3	25	71	6
RU3A-NA-60750	7.5	6.3	25	71	6
RU3A-NA-60800	8.0	6.3	25	71	6
RU3A-NA-60850	8.5	8	25	71	6
RU3A-NA-60900	9.0	8	25	71	6
RU3A-NA-60950	9.5	8	25	71	6
RU3A-NA-61000	10.0	8	25	71	6
RU3A-NA-61050	10.5	8	25	71	6
RU3A-NA-61100	11.0	10	28	80	6
RU3A-NA-61150	11.5	10	28	80	6
RU3A-NA-61200	12.0	10	28	80	6
RU3A-NA-61250	12.5	10	28	80	6
RU3A-NA-61300	13.0	10	28	80	6
RU3A-NA-61350	13.5	12.5	32	90	6
RU3A-NA-61400	14.0	12.5	32	90	6
RU3A-NA-61450	14.5	12.5	32	90	6
RU3A-NA-61500	15.0	12.5	32	90	6
RU3A-NA-61550	15.5	12.5	32	90	6
RU3A-NA-61600	16.0	12.5	32	90	6
RU3A-NA-61700	17.0	12.5	32	90	6
RU3A-NA-61800	18.0	16	36	100	6
RU3A-NA-61900	19.0	16	36	100	6
RU3A-NA-62000	20.0	16	36	100	6

149 STRAIGHT FLUTE 直槽丝锥

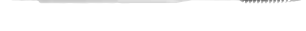
155 SPIRAL POINT 螺尖丝锥

172 SPIRAL FLUTE 螺旋丝锥

189 FORMING TAPS 挤压丝锥

TAPS 丝锥

直槽丝锥 Straight Flute													
2102	HSSE	DIN 371			M-MF DIN 13	Form. C		Tol. 6H	1.5XD	R	P		149
2101	HSSE	DIN 376/374			M-MF DIN 13	Form. C		Tol. 6H	1.5XD	D	P		149
2102/5	HSSE	DIN 371			M-MF DIN 13	Form. C		Tol. 6H	LH 1.5XD	R	P		151
2101/5	HSSE	DIN 376/374			M-MF DIN 13	Form. C		Tol. 6H	LH 1.5XD	D	P		152
2114	HSSE	DIN 371			M-MF DIN 13	Form. A		Tol. 6H	1.5XD	R	P		152
2113	HSSE	DIN 376/374			M-MF DIN 13	Form. A		Tol. 6H	1.5XD	D	P		153
2190	HSSE	DIN 371			M DIN 13	Form. E		Tol. 6H	1.5XD	R MF	N		153
2191	HSSE	DIN 376			M DIN 13	Form. E		Tol. 6H	1.5XD	D MF	N		154
2274	HSSE	DIN 371	TiCN		M DIN 13	Form. E		Tol. 6HX	1.5XD	R MF	H		154
2275	HSSE	DIN 376	TiCN		M DIN 13	Form. E		Tol. 6HX	1.5XD	D MF	H		154

螺尖丝锥 Spiral Point														
2104	HSSE	DIN 371			M-MF DIN 13	Form. B "Gun"		Tol. 6H	3XD	R	P	N	155	
2103	HSSE	DIN 376/374			M-MF DIN 13	Form. B "Gun"		Tol. 6H	3XD	D	P	N	155	
2111	HSSE	DIN 371-L			M DIN 13	Form. B "Gun"		Tol. 6H	3XD	R	P	N	157	
2272	HSSE	DIN 376-L			M DIN 13	Form. B "Gun"		Tol. 6H	3XD	D	P	N	157	
2110	HSSE	DIN 371			M DIN 13	Form. B "Gun"		Tol. 6H +0.1	3XD	R	P	N	158	
2109	HSSE	DIN 376			M DIN 13	Form. B "Gun"		Tol. 6H +0.1	3XD	D	P	N	158	
2168	HSSE	DIN 371			M DIN 13	Form. B "Gun"		Tol. 6G	3XD	R	P	N	159	
2169	HSSE	DIN 376			M DIN 13	Form. B "Gun"		Tol. 6G	3XD	D	P	N	159	
2250	HSSE	DIN 371	VAP		M DIN 13	Form. B "Gun"		Tol. 6H	3XD	R MF	P	M	N	160
2251	HSSE	DIN 376/374	VAP		M-MF DIN 13	Form. B "Gun"		Tol. 6H	3XD	D MF	P	M	N	160

2116	HSSE	DIN 371	TiN+		M DIN 13	Form. B "Gun"		Tol. 6H	3XD	R MF	P M K N	161
2115	HSSE	DIN 376	TiN+		M-MF DIN 13	Form. B "Gun"		Tol. 6H	3XD	D MF	P M K N	161
2122	HSSE	DIN 371	VAP		M DIN 13	Form. B "Gun"		Tol. 6H	3XD	R MF	P M	162
2121	HSSE	DIN 376/374	VAP		M-MF DIN 13	Form. B "Gun"		Tol. 6H	3XD	D MF	P M	162
2133	HSSE	DIN 371			M DIN 13	B-AZ		Tol. 6H	3XD	R	N	163
2132	HSSE	DIN 376			M DIN 13	B-AZ		Tol. 6H	3XD	D	N	163
2254	HSSE-PM	DIN 371 MULTI	HL		M DIN 13	Form. B "Gun"		Tol. 6HX	3XD	R MF	P M K N N	164
2255	HSSE-PM	DIN 371 MULTI	HL		M DIN 13	Form. B "Gun"		Tol. 6HX	3XD	D MF	P M K N N	164
2258	HSSE-PM	DIN 371 SYNCHRO	HL		M DIN 13	Form. B "Gun"		Tol. 6HX	CNC 3XD	R MF	P M K N N	165
2259	HSSE-PM	DIN 371 SYNCHRO	HL		M DIN 13	Form. B "Gun"		Tol. 6HX	CNC 3XD	D MF	P M K N N	165
2150	HSSE	DIN 371			UNC ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	R	P N	166
2149	HSSE	DIN 376			UNC ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	D	P N	166
2262	HSSE	DIN 371	VAP		UNC ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	R MF	P M N	167
2263	HSSE	DIN 376	VAP		UNC ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	D MF	P M N	167
2234	HSSE	DIN 371	TiN+		UNC ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	R MF	P M K N	168
2235	HSSE	DIN 376	TiN+		UNC ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	D MF	P M K N	168
2156	HSSE	DIN 371			UNF ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	R	P N	169
2155	HSSE	DIN 376			UNF ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	D	P N	169
2276	HSSE	DIN 371	VAP		UNF ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	R MF	P M N	170
2277	HSSE	DIN 376	VAP		UNF ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	D MF	P M N	170
2280	HSSE	DIN 371	TiN+		UNF ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	R MF	P M K N	171
2281	HSSE	DIN 376	TiN+		UNF ANGEBOTE B3	Form. B "Gun"		Tol. 2B	3XD	D MF	P M K N	171

螺旋丝锥 Spiral Flute																	
2106	HSSE	DIN 376			M-MF DIN 13	Form. C	Tol. 6H	35°	3XD	R	P	N	172				
2105	HSSE	DIN 376/374			M-MF DIN 13	Form. C	Tol. 6H	35°	3XD	D	P	N	172				
2106/5	HSSE	DIN 371			M-MF DIN 13	Form. C	Tol. 6H	35°	LH	3XD	R	P	N	174			
2105/5	HSSE	DIN 376/374			M-MF DIN 13	Form. C	Tol. 6H	35°	LH	3XD	D	P	N	174			
2112	HSSE	DIN 371-L			M DIN 13	Form. C	Tol. 6H	35°	3XD	R	P	N	175				
2273	HSSE	DIN 376-L			M DIN 13	Form. C	Tol. 6H	35°	3XD	D	P	N	175				
2166	HSSE	DIN 371			M DIN 13	Form. C	Tol. 6H +0.1	35°	3XD	R	P	N	176				
2165	HSSE	DIN 376			M DIN 13	Form. C	Tol. 6H +0.1	35°	3XD	D	P	N	176				
2170	HSSE	DIN 371			M DIN 13	Form. C	Tol. 6G	35°	3XD	R	P	N	177				
2208	HSSE	DIN 376			M DIN 13	Form. C	Tol. 6G	35°	3XD	D	P	N	177				
2108	HSSE	DIN 371			M DIN 13	Form. C	Tol. 6H	15°	3XD	R	P	N	178				
2107	HSSE	DIN 376/374			M DIN 13	Form. C	Tol. 6H	15°	3XD	D	P	N	178				
2252	HSSE	DIN 371	VAP		M DIN 13	Form. C	Tol. 6H	35°	3XD	R	M	F	P	M	N	179	
2253	HSSE	DIN 376/374	VAP		M-MF DIN 13	Form. C	Tol. 6H	35°	3XD	D	M	F	P	M	N	179	
2118	HSSE	DIN 371	TIN+		M DIN 13	Form. C	Tol. 6H	35°	3XD	R	M	F	P	M	K	N	180
2117	HSSE	DIN 376/374	TIN+		M-MF DIN 13	Form. C	Tol. 6H	35°	3XD	D	M	F	P	M	K	N	180
2120	HSSE	DIN 371	VAP		M DIN 13	Form. C	Tol. 6H	35°	3XD	R	M	F	P	M	N	181	
2119	HSSE	DIN 376/374	VAP		M-MF DIN 13	Form. C	Tol. 6H	35°	3XD	D	M	F	P	M	N	181	
2182	HSSE	DIN 371			M DIN 13	Form. C	Tol. 6H	45°	3XD	R	N					182	
2181	HSSE	DIN 376			M DIN 13	Form. C	Tol. 6H	45°	3XD	D	N					182	
2256	HSSE-PM	DIN 371 MULTI	HL		M DIN 13	Form. C	Tol. 6HX	45°	3XD	R	M	F	P	M	K	N	183

2257	HSSE-PM	DIN 376 MULTI	HL		M DIN 13	Form. C		Tol. 6HX		45°	3XD	D	M	F	P	M	K	N	183	
2260	HSSE-PM	DIN 371 SYNCHRO	HL		M DIN 13	CNC	Form. C		Tol. 6HX		45°	3XD	R	M	F	P	M	K	N	184
2261	HSSE-PM	DIN 376 SYNCHRO	HL		M DIN 13	CNC	Form. C		Tol. 6HX		45°	3XD	D	M	F	P	M	K	N	184
2264	HSSE	DIN 371	VAP		UNC ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	R	M	F	P	M	N		185	
2265	HSSE	DIN 371	VAP		UNC ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	D	M	F	P	M	N		185	
2236	HSSE	DIN 371	TIN+		UNC ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	R	M	F	P	M	K	N		186
2237	HSSE	DIN 376	TIN+		UNC ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	D	M	F	P	M	K	N		186
2278	HSSE	DIN 371	VAP		UNF ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	R	M	F	P	M	N		187	
2279	HSSE	DIN 374	VAP		UNF ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	D	M	F	P	M	N		187	
2282	HSSE	DIN 371	TIN+		UNF ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	R	M	F	P	M	K	N		188
2283	HSSE	DIN 374	TIN+		UNF ANSI/ASME B1.1	Form. C		Tol. 2B		35°	3XD	D	M	F	P	M	K	N		188

挤压丝锥 Forming Taps																		
2188	HSSE-PM	DIN 371	TIN		M DIN 13	Form. C		Tol. 6HX	A>12%	1.5XD	R	M	F	P	M	N	189	
2187	HSSE-PM	DIN 376	TIN		M DIN 13	Form. C		Tol. 6HX	A>12%	1.5XD	D	M	F	P	M	N	189	
2214	HSSE-PM	DIN 371	TIN		M DIN 13		Form. C		Tol. 6HX	A>12%	3XD	R	M	F	P	M	N	190
2213	HSSE-PM	DIN 376	TIN		M DIN 13		Form. C		Tol. 6HX	A>12%	3XD	D	M	F	P	M	N	190
2216	HSSE-PM	DIN 371	TIN		M DIN 13	Form. C		Tol. 6HX	A>12%	1.5XD	R	M	F	P	M	N	191	
2215	HSSE-PM	DIN 376	TIN		M DIN 13	Form. C		Tol. 6HX	A>12%	1.5XD	D	M	F	P	M	N	191	
2218	HSSE-PM	DIN 371	TIN		M DIN 13		Form. C		Tol. 6HX	A>12%	3XD	R	M	F	P	M	N	192
2217	HSSE-PM	DIN 376	TIN		M DIN 13		Form. C		Tol. 6HX	A>12%	3XD	D	M	F	P	M	N	192

P 钢件 Steels M 不锈钢 Stainless Steels K 铸铁 Cast Iron N 有色金属 Non Ferrous metals S 高温合金和钛合金 Titanium and Superalloys H 硬质材料 Hard materials

2102 HSSE DIN 371



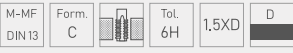
D	P	L mm	l mm	d mm
M1.0	0.25	40	6	2.5
M1.1	0.25	40	6	2.5
M1.2	0.25	40	6	2.5
M1.4	0.30	40	7	2.5
M1.6	0.35	40	8	2.5
M1.7	0.35	40	8	2.5
M1.8	0.35	40	8	2.5
M2.0	0.40	45	10	2.8
M2.2	0.45	45	10	2.8
M2.3	0.40	45	10	2.8
M2.5	0.45	50	9	2.8
M2.6	0.45	50	9	2.8
M3.0	0.35	56	11	3.5
M3.0	0.50	56	11	3.5
M3.0	0.60	56	11	3.5

D	P	L mm	l mm	d mm
M3.5	0.60	56	12	4.0
M3.5	0.75	56	11	4.0
M4.0	0.50	63	13	4.5
M4.0	0.70	63	13	4.5
M4.5	0.75	70	14	6.0
M5.0	0.50	70	14	6.0
M5.0	0.75	70	16	6.0
M5.0	0.80	70	16	6.0
M6.0	0.75	80	14	6.0
M6.0	1.00	80	19	6.0
M7.0	1.00	80	18	7.0
M8.0	0.75	80	18	8.0
M8.0	1.25	90	22	8.0
M9.0	1.25	90	22	9.0
M10.0	1.50	100	24	10.0

D	P	L mm	l mm	d mm
M10.0	0.75	90	18	7.0
M10.0	1.00	90	20	7.0
M10.0	1.25	100	20	7.0
M10.0	1.50	100	24	7.0
M11.0	1.00	90	20	8.0
M11.0	1.25	90	22	8.0
M11.0	1.50	100	24	8.0
M12.0	0.75	100	22	9.0
M12.0	1.00	100	20	9.0
M12.0	1.25	100	20	9.0
M12.0	1.50	110	22	9.0
M12.0	1.75	100	29	9.0
M13.0	0.75	100	22	11.0
M13.0	1.00	100	22	11.0
M13.0	1.25	100	22	11.0
M13.0	1.50	100	22	11.0
M13.0	1.75	110	27	11.0
M14.0	0.75	100	22	11.0
M14.0	1.00	100	20	11.0
M14.0	1.25	100	20	11.0
M14.0	1.50	100	20	11.0
M14.0	2.00	110	30	11.0
M15.0	1.00	100	20	12.0
M15.0	1.25	100	22	12.0
M15.0	1.50	100	22	12.0
M15.0	2.00	110	30	12.0
M16.0	1.00	100	20	12.0
M16.0	1.25	100	22	12.0
M16.0	1.50	100	22	12.0
M16.0	2.00	110	30	12.0
M17.0	1.00	100	20	12.0
M17.0	1.25	100	22	12.0
M17.0	1.50	100	22	12.0
M18.0	1.00	110	24	14.0
M18.0	1.25	110	25	14.0
M18.0	1.50	110	25	14.0
M18.0	2.00	125	34	14.0
M18.0	2.50	125	34	14.0
M19.0	1.00	110	25	14.0
M19.0	1.25	110	25	14.0
M19.0	1.50	110	25	14.0
M20.0	1.00	125	24	16.0
M20.0	1.25	125	25	16.0
M20.0	1.50	125	25	16.0
M20.0	2.00	140	27	16.0

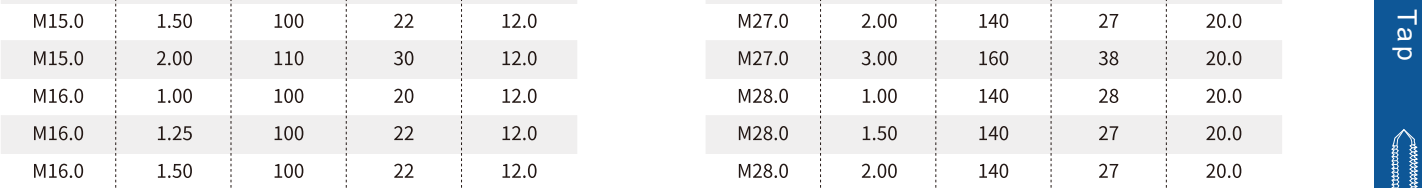
D	P	L mm	l mm	d mm
M20.0	2.50	140	34	16.0
M21.0	1.00	125	25	16.0
M21.0	1.25	125	25	16.0
M21.0	1.50	125	25	16.0
M22.0	1.00	125	24	18.0
M22.0	1.25	125	25	18.0
M22.0	1.50	125	24	18.0
M22.0	2.00	140	27	18.0
M22.0	2.50	140	34	18.0
M23.0	1.00	125	25	18.0
M23.0	1.50	125	25	18.0
M24.0	1.00	140	27	18.0
M24.0	1.25	140	28	18.0
M24.0	1.50	140	27	18.0
M24.0	2.00	140	27	18.0
M24.0	3.00	160	38	18.0
M25.0	1.00	140	28	18.0
M25.0	1.50	140	27	18.0
M25.0	2.00	140	28	18.0
M26.0	1.25	140	28	18.0
M26.0	1.00	140	27	18.0
M26.0	2.00	140	28	18.0
M27.0	1.00	140	27	20.0
M27.0	1.50	140	27	20.0
M27.0	2.00	140	27	20.0
M27.0	3.00	160	38	20.0
M28.0	1.00	140	28	20.0
M28.0	1.50	140	27	20.0
M28.0	2.00	140	27	20.0
M30.0	1.00	150	27	22.0
M30.0	1.50	150	27	22.0
M30.0	2.00	150	27	22.0
M30.0	3.00	180	45	22.0
M30.0	3.50	180	40	22.0
M32.0	1.00	150	28	22.0
M32.0	1.50	150	27	22.0
M32.0	2.00	150	27	22.0
M33.0	1.00	160	30	25.0
M33.0	1.50	160	30	25.0
M33.0	2.00	160	30	25.0
M33.0	3.00	180	50	25.0
M33.0	3.50	180	45	25.0
M34.0	1.50	170	30	28.0
M34.0	2.00	170	30	28.0
M35.0	1.50	170	30	28.0

2101 HSSE DIN 376/374



D	P	L mm	l mm	d mm
M3.0	0.50	56	11	2.2
M3.5	0.60	56	13	2.8
M4.0	0.70	63	13	2.8
M5.0	0.80	70	16	3.5
M6.0	0.50	80	18	4.5
M6.0	0.75	80	14	4.5
M6.0	1.00	80	19	4.5
M7.0	0.50	80	19	5.5
M7.0	0.75	80	14	5.5

D	P	L mm	l mm	d mm
M7.0	1.00	56	19	6.0
M8.0	0.50	56	19	6.0
M8.0	0.75	63	19	6.0
M8.0	1.00	63	20	6.0
M8.0	1.25	90	22	6.0
M9.0	0.75	90	22	6.0
M9.0	1.00	90	20	6.0
M9.0	1.25	90	20	6.0
M10.0	0.50	90	18	7.0



D	P	L mm	l mm	d mm
M36.0	1.50	170	30	28.0
M36.0	2.00	170	30	28.0
M36.0	3.00	200	50	28.0
M36.0	4.00	200	50	28.0
M38.0	1.50	170	30	32.0
M38.0	2.00	170	30	32.0
M39.0	1.50	170	30	32.0
M39.0	2.00	170	30	32.0
M39.0	3.00	200	50	32.0
M39.0	4.00	200	55	32.0
M40.0	1.50	170	30	32.0
M40.0	2.00	170	30	32.0
M40.0	3.00	200	60	32.0
M42.0	1.50	170	30	32.0
M42.0	2.00	170	30	32.0

D	P	L mm	l mm	d mm
M42.0	3.00	56	12	32.0
M42.0	4.50	56	11	32.0
M45.0	1.50	63	13	36.0
M45.0	2.00	63	13	36.0
M45.0	3.00	70	14	36.0
M45.0	4.50	70	14	36.0
M48.0	1.50	70	16	36.0
M48.0	2.00	70	16	36.0
M48.0	3.00	80	14	36.0
M48.0	5.00	80	19	36.0
M50.0	1.50	80	18	36.0
M52.0	1.50	80	18	40.0
M52.0	2.00	90	22	40.0
M52.0	3.00	90	22	40.0
M52.0	5.00	100	24	40.0

2101/5

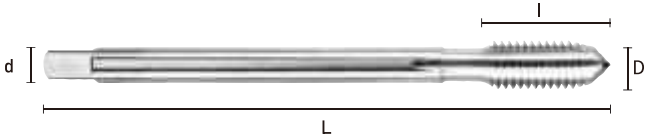
HSSE DIN 376/374

M-MF
DIN 13

Form.
C

Tol.
6H

1.5XD



D	P	L mm	l mm	d mm
M5.0	0.80	70	14	3.5
M6.0	1.00	80	18	4.5
M7.0	1.00	80	18	5.5
M8.0	1.00	90	20	6.0
M8.0	1.25	90	20	6.0
M9.0	1.25	90	20	7.0
M10.0	1.00	90	20	7.0
M10.0	1.25	90	20	7.0
M10.0	1.50	100	20	7.0
M12.0	1.25	100	20	9.0
M12.0	1.50	100	20	9.0
M12.0	1.75	110	24	9.0
M14.0	1.50	100	20	11.0

D	P	L mm	l mm	d mm
M14.0	2.00	110	25	11.0
M16.0	1.50	100	20	12.0
M16.0	2.00	110	32	12.0
M18.0	1.50	110	24	14.0
M18.0	2.50	125	32	14.0
M20.0	1.50	125	24	16.0
M20.0	2.50	140	32	16.0
M22.0	1.50	125	24	18.0
M22.0	2.50	140	32	18.0
M24.0	1.50	140	27	18.0
M24.0	3.00	160	38	18.0
M27.0	3.00	160	38	20.0
M30.0	3.50	180	40	20.0

2102/5

HSSE DIN 371

M-MF
DIN 13

Form.
C

Tol.
6H

1.5XD



D	P	L mm	l mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	12	4.5
M5.0	0.80	70	14	6.0

D	P	L mm	l mm	d mm
M6.0	1.00	80	18	6.0
M8.0	1.25	90	20	8.0
M10.0	1.50	100	20	10.0

2114

HSSE DIN 371

M-MF
DIN 13

Form.
A

Tol.
6H

1.5XD



D	P	L mm	l mm	d mm
M2.0	0.40	45	8	2.8
M2.2	0.45	45	9	2.8
M2.3	0.40	45	9	2.8
M2.5	0.45	50	9	2.8
M2.6	0.45	50	9	2.8
M3.0	0.50	56	11	3.5
M3.5	0.60	56	12	4.0
M4.0	0.70	63	13	4.5

D	P	L mm	l mm	d mm
M4.5	0.75	70	14	6.0
M5.0	0.80	70	16	6.0
M6.0	1.00	80	19	6.0
M7.0	1.00	80	16	7.0
M8.0	1.25	90	19	8.0
M9.0	1.25	90	19	9.0
M10.0	1.50	100	22	10.0

2113 HSSE DIN 376/374

M-MF
DIN 13

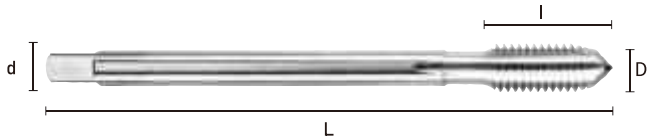
Form.
A



Tol.
6H

1.5XD

D



D	P	L mm	l mm	d mm
M3.0	0.50	56	11	2.2
M3.5	0.60	56	13	2.8
M4.0	0.70	63	13	2.8
M5.0	0.80	70	16	3.5
M6.0	1.00	80	19	4.5
M7.0	1.00	80	19	5.5
M8.0	1.25	90	22	6.0
M9.0	1.25	90	22	7.0
M10.0	1.50	100	24	7.0
M11.0	1.50	100	24	8.0
M12.0	1.75	110	29	9.0
M13.0	1.75	110	29	11.0
M14.0	2.00	110	30	11.0
M15.0	2.00	110	30	12.0

D	P	L mm	l mm	d mm
M16.0	2.00	110	32	12.0
M18.0	2.50	125	34	14.0
M20.0	2.50	140	34	16.0
M22.0	2.50	140	34	18.0
M24.0	3.00	160	38	18.0
M27.0	3.00	160	38	20.0
M30.0	3.50	180	45	22.0
M33.0	3.50	180	50	25.0
M36.0	4.00	200	56	28.0
M39.0	4.00	200	60	32.0
M42.0	4.50	200	60	32.0
M45.0	4.50	220	65	36.0
M48.0	5.00	250	70	36.0
M52.0	5.0	250	70	40.0

2191 HSSE DIN 376

M
DIN 13

Form.
E



Tol.
6H

1.5XD

D

MF



D	P	L mm	l mm	d mm
M6.0	1.00	80	19	4.5
M8.0	1.25	90	22	6.0
M10.0	1.50	100	24	7.0

D	P	L mm	l mm	d mm
M12.0	1.75	110	29	9.0
M14.0	2.00	110	30	11.0
M16.0	2.00	110	32	12.0

2274 HSSE DIN 371

M
DIN 13

Form.
E



Tol.
6HX

1.5XD

R

MF



D	P	L mm	l mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	12	4.5
M5.0	0.80	70	14	6.0

D	P	L mm	l mm	d mm
M6.0	1.00	80	18	6.0
M8.0	1.25	90	20	8.0
M10.0	1.50	100	20	10.0

2190 HSSE DIN 371

M
DIN 13

Form.
E

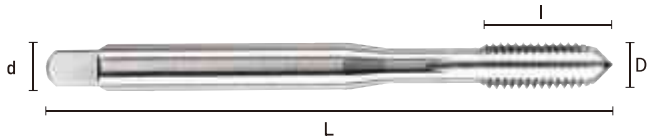


Tol.
6H

1.5XD

R

MF



D	P	L mm	l mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	12	4.5
M5.0	0.80	70	14	6.0

D	P	L mm	l mm	d mm
M6.0	1.00	80	19	6.0
M8.0	1.25	90	22	8.0
M10.0	1.50	100	24	10.0

2275 HSSE DIN 376

M
DIN 13

Form.
E

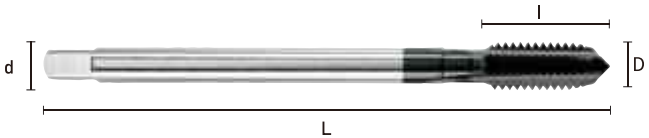


Tol.
6HX

1.5XD

D

MF



D	P	L mm	l mm	d mm
M12.0	1.75	110	24	9.0
M14.0	2.00	110	25	11.0

D	P	L mm	l mm	d mm
M16.0	2.00	110	32	12.0

2111

HSSE DIN 371-L

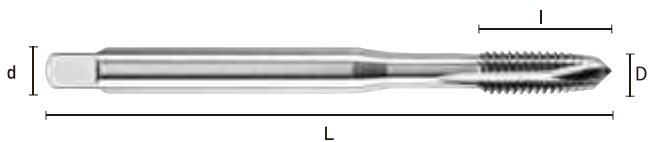


D	P	L mm	I mm	d mm
M3.0	0.50	100	10	3.5
M4.0	0.70	125	12	4.5
M5.0	0.80	140	14	6.0
M6.0	1.00	160	18	6.0

D	P	L mm	I mm	d mm
M8.0	1.25	150	22	8.0
M10.0	1.50	150	24	10.0
M12.0	1.75	150	29	12.0

2110

HSSE DIN 371



D	P	L mm	I mm	d mm
M3.0	0.50	56	11	3.5
M4.0	0.70	63	13	4.5
M5.0	0.80	70	14	6.0

D	P	L mm	I mm	d mm
M8.0	1.00	80	16	8.0
M10.0	1.25	90	18	10.0
M12.0	1.50	100	22	12.0

2272

HSSE DIN 376-L

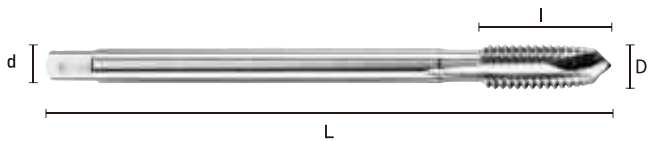
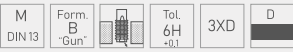


D	P	L mm	I mm	d mm
M8.0	1.25	180	20	6.0
M10.0	1.50	200	20	7.0

D	P	L mm	I mm	d mm
M12.0	1.75	220	24	9.0
M16.0	2.00	220	32	12.0

2109

HSSE DIN 376

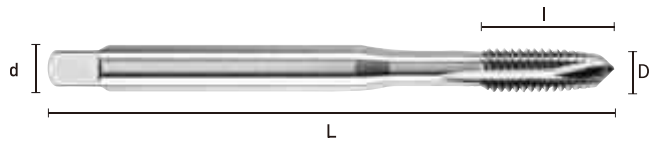
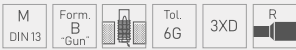


D	P	L mm	I mm	d mm
M8.0	1.25	90	20	6.0
M10.0	1.50	100	22	7.0
M12.0	1.75	110	27	7.0

D	P	L mm	I mm	d mm
M14.0	2.00	110	30	11.0
M16.0	2.00	110	30	12.0

2168

HSSE DIN 371



D	P	L mm	l mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	12	4.5
M5.0	0.80	70	14	6.0

D	P	L mm	l mm	d mm
M8.0	1.00	80	18	6.0
M10.0	1.25	90	20	8.0
M12.0	1.50	100	20	10.0

2250

HSSE DIN 371

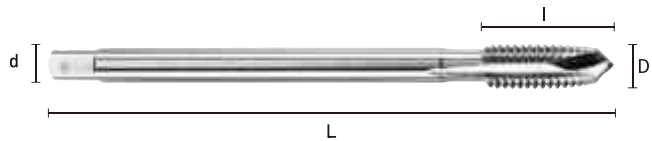
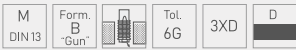


D	P	L mm	l mm	d mm
M2.0	0.40	45	10	2.8
M2.5	0.45	50	9	2.8
M3.0	0.50	56	11	3.5
M3.5	0.60	56	12	4.0
M4.0	0.70	63	13	4.5

D	P	L mm	l mm	d mm
M5.0	0.80	70	16	6.0
M6.0	1.00	80	19	6.0
M8.0	1.25	90	22	8.0
M10.0	1.50	100	24	10.0

2169

HSSE DIN 376

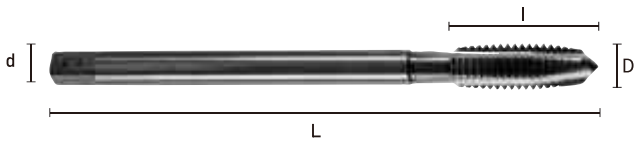


D	P	L mm	l mm	d mm
M8.0	1.25	90	20	6.0
M10.0	1.50	100	20	7.0
M12.0	1.75	110	24	7.0
M14.0	2.00	110	25	11.0

D	P	L mm	l mm	d mm
M16.0	2.00	110	32	12.0
M18.0	2.50	125	32	14.0
M20.0	2.50	140	32	16.0

2251

HSSE DIN 376/374

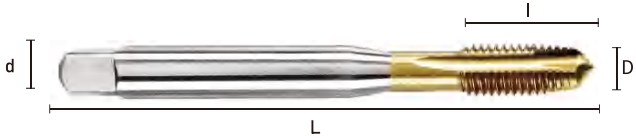


D	P	L mm	l mm	d mm
M3.0	0.50	56	11	3.5
M4.0	0.70	63	13	2.8
M5.0	0.80	70	16	3.5
M6.0	1.00	80	19	4.5
M8.0	1.00	90	20	6.0
M8.0	1.25	90	22	6.0
M10.0	1.00	90	20	7.0
M10.0	1.25	100	20	7.0
M10.0	1.50	100	24	7.0
M12.0	1.00	100	20	9.0
M12.0	1.25	100	20	9.0
M12.0	1.50	100	20	9.0
M12.0	1.75	110	29	9.0
M14.0	1.00	100	20	11.0
M14.0	1.25	100	20	11.0
M14.0	1.50	100	20	11.0

D	P	L mm	l mm	d mm
M14.0	2.00	110	30	11.0
M16.0	1.00	100	20	12.0
M16.0	1.50	100	22	12.0
M16.0	2.00	110	30	12.0
M18.0	1.00	110	24	14.0
M18.0	1.50	110	24	14.0
M18.0	2.50	125	34	14.0
M20.0	1.00	125	24	16.0
M20.0	1.50	125	25	16.0
M20.0	2.50	140	34	16.0
M22.0	1.00	125	25	16.0
M22.0	1.50	125	25	18.0
M22.0	2.50	140	34	18.0
M24.0	1.50	140	27	18.0
M24.0	2.00	140	27	18.0
M24.0	3.00	160	38	18.0

2116

HSSE DIN 371



D	P	L mm	I mm	d mm
M2.0	0.40	45	10	2.8
M2.5	0.45	50	9	2.8
M3.0	0.50	56	11	3.5
M3.5	0.60	56	12	4.0
M4.0	0.70	63	13	4.5

D	P	L mm	I mm	d mm
M5.0	0.80	70	16	6.0
M6.0	1.00	80	19	6.0
M8.0	1.25	90	22	8.0
M10.0	1.50	100	24	10.0

2122

HSSE DIN 371



D	P	L mm	I mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	12	4.5
M5.0	0.80	70	14	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	18	6.0
M8.0	1.25	90	20	8.0
M10.0	1.50	100	20	10.0

2115

HSSE DIN 376/374

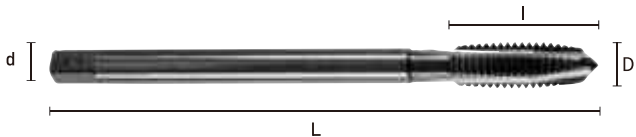


D	P	L mm	I mm	d mm
M3.0	0.50	56	11	3.5
M4.0	0.70	63	13	2.8
M5.0	0.80	70	16	3.5
M6.0	1.00	80	19	4.5
M8.0	1.00	90	20	6.0
M8.0	1.25	90	22	6.0
M10.0	1.00	90	20	7.0
M10.0	1.25	100	20	7.0
M10.0	1.50	100	24	7.0
M12.0	1.00	100	20	9.0
M12.0	1.25	100	20	9.0
M12.0	1.50	100	20	9.0
M12.0	1.75	110	29	9.0
M14.0	1.00	100	20	11.0
M14.0	1.25	100	20	11.0
M14.0	1.50	100	20	11.0

D	P	L mm	I mm	d mm
M14.0	2.00	110	30	11.0
M16.0	1.00	100	20	12.0
M16.0	1.50	100	22	12.0
M16.0	2.00	110	30	12.0
M18.0	1.00	110	24	14.0
M18.0	1.50	110	24	14.0
M18.0	2.50	125	34	14.0
M20.0	1.00	125	24	16.0
M20.0	1.50	125	25	16.0
M20.0	2.50	140	34	16.0
M22.0	1.00	125	25	16.0
M22.0	1.50	125	25	18.0
M22.0	2.50	140	34	18.0
M24.0	1.50	140	27	18.0
M24.0	2.00	140	27	18.0
M24.0	3.00	160	38	18.0

2121

HSSE DIN 376/374



D	P	L mm	I mm	d mm
M8.0	1.00	90	20	6.0
M8.0	1.25	90	22	6.0
M10.0	1.00	90	20	7.0
M10.0	1.25	100	20	7.0
M10.0	1.50	100	24	7.0
M12.0	1.00	100	20	9.0
M12.0	1.25	100	20	9.0
M12.0	1.75	110	29	9.0
M14.0	1.25	100	20	11.0

D	P	L mm	I mm	d mm
M14.0	1.50	100	20	11.0
M14.0	2.00	110	30	11.0
M16.0	1.50	100	22	12.0
M16.0	2.00	110	30	12.0
M18.0	1.50	110	24	14.0
M18.0	2.50	125	34	14.0
M20.0	1.50	125	25	16.0
M20.0	2.50	140	34	16.0
M22.0	2.50	140	34	18.0
M24.0	3.00	160	38	18.0

2133

HSSE DIN 371

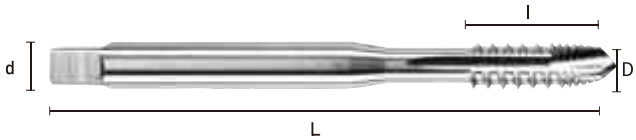
M
DIN 13

B-AZ

Tol.
6H

3XD

R



D	P	L mm	I mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	12	4.5
M5.0	0.80	70	14	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	18	6.0
M8.0	1.25	90	20	8.0
M10.0	1.50	100	20	10.0

2254

HSSE-PM DIN 371 MUYI

M
DIN 13

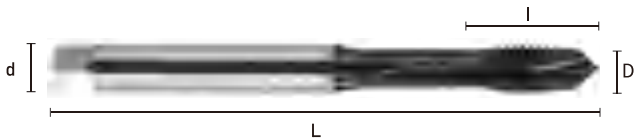
Form.
B
"Gun"

Tol.
6HX

3XD

R

M
F



D	P	L mm	I mm	d mm
M3.0	0.50	56	5	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2132

HSSE DIN 376

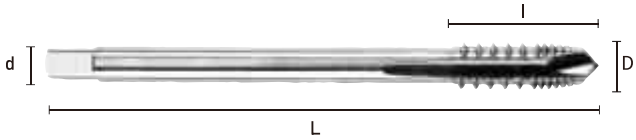
M
DIN 13

B-AZ

Tol.
6H

3XD

D



D	P	L mm	I mm	d mm
M4.0	0.70	63	13	2.8
M5.0	0.80	70	16	3.5
M6.0	1.00	80	19	4.5
M8.0	1.25	90	22	6.0

D	P	L mm	I mm	d mm
M10.0	1.50	100	24	7.0
M12.0	1.75	110	29	9.0
M14.0	2.00	110	30	11.0
M16.0	2.00	110	32	12.0

2255

HSSE-PM DIN 371 MUYI

M
DIN 13

Form.
B
"Gun"

Tol.
6HX

3XD

D

M
F



D	P	L mm	I mm	d mm
M12.0	1.75	110	18	9.0
M14.0	2.00	110	20	11.0

D	P	L mm	I mm	d mm
M16.0	2.00	110	20	12.0

2258

HSSE-PM DIN 371 SYNCHRO

M
DIN 13

Form.
B
"Gun"



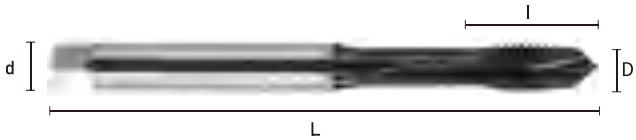
Tol.
6HX

CNC

3XD

R

MF



D	P	L mm	l mm	d mm
M3.0	0.50	56	5	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	l mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2150

HSSE DIN 371

UNC
ANALOGUE
B2

Form.
B
"Gun"



Tol.
2B

3XD

R



D	P	L mm	l mm	d mm
N°4	40.000	56	10	3.5
N°5	40.00	56	10	3.5
N°6	32.00	56	12	4.0
N°5	32.00	63	12	4.5
N°6	24.00	70	14	6.0

D	P	L mm	l mm	d mm
N°12	24.00	80	18	6.0
1/4	20.00	80	18	7.0
5/16	18.00	90	20	8.0
3/8	16.00	100	20	10.0

2259

HSSE-PM DIN 376 SYNCHRO

M
DIN 13

Form.
B
"Gun"



Tol.
6HX

CNC

3XD

D

MF



D	P	L mm	l mm	d mm
M12.0	1.75	110	18	9.0
M14.0	2.00	110	20	11.0

D	P	L mm	l mm	d mm
M16.0	2.00	110	20	12.0

2149

HSSE DIN 376

UNC
ANALOGUE
B2

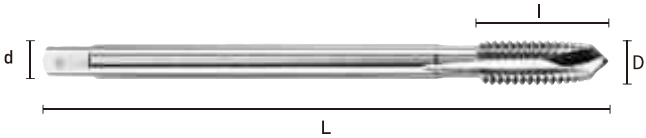
Form.
B
"Gun"



Tol.
2B

3XD

D

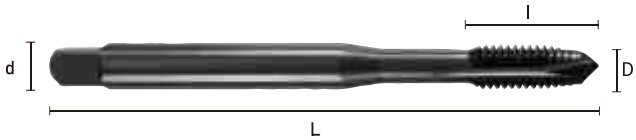


D	P	L mm	l mm	d mm
1/4	20.00	80	18	4.5
5/16	18.00	90	20	6.0
3/8	16.00	100	20	7.0
7/16	14.00	100	22	8.0
1/2	13.00	110	24	9.0
9/16	12.00	110	25	11.0

D	P	L mm	l mm	d mm
5/8	11.00	110	32	12.0
3/4	10.00	125	32	14.0
7/8	9.00	140	32	18.0
1"	8.00	160	38	20.0
1-1/18	7.00	180	40	22.0
1-1/4	7.00	180	40	22.0

2262

HSSE DIN 371

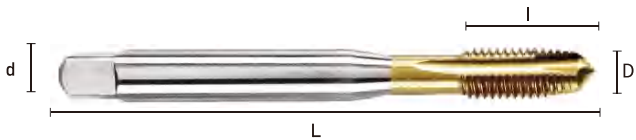


D	P	L mm	I mm	d mm
N°4	40.00	56	10	3.5
N°5	40.00	56	10	3.5
N°6	32.00	56	12	4.0
N°8	32.00	63	12	4.5
N°10	24.00	70	14	6.0

D	P	L mm	I mm	d mm
N°12	24.00	80	18	6.0
1/4	20.00	80	18	7.0
5/16	18.00	90	20	8.0
3/8	16.00	100	20	10.0

2234

HSSE DIN 371

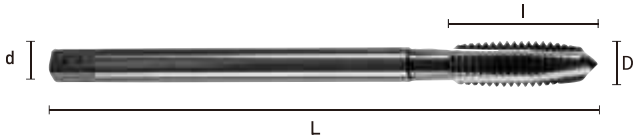


D	P	L mm	I mm	d mm
N°4	40.00	56	10	3.5
N°5	40.00	56	10	3.5
N°6	32.00	56	12	4.0
N°8	32.00	63	12	4.5
N°10	24.00	70	14	6.0

D	P	L mm	I mm	d mm
N°12	24.00	80	18	6.0
1/4	20.00	80	18	7.0
5/16	18.00	90	20	8.0
3/8	16.00	100	20	10.0

2263

HSSE DIN 376

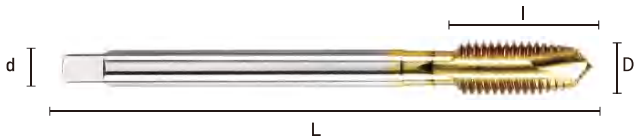


D	P	L mm	I mm	d mm
7/16	14.00	100	22	8.0
1/2	13.00	110	24	9.0
9/16	12.00	110	25	11.0
5/8	11.00	110	32	12.0

D	P	L mm	I mm	d mm
3/4	10.00	125	32	14.0
7/8	9.00	140	32	18.0
1"	8.00	160	38	20.0

2235

HSSE DIN 376

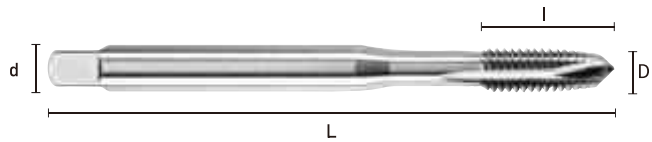
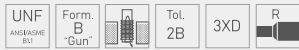


D	P	L mm	I mm	d mm
7/16	14.00	100	22	8.0
1/2	13.00	110	24	9.0
9/16	12.00	110	25	11.0
5/8	11.00	110	32	12.0

D	P	L mm	I mm	d mm
3/4	10.00	125	32	14.0
7/8	9.00	140	32	18.0
1"	8.00	160	38	20.0

2156

HSSE DIN 371



D	P	L mm	I mm	d mm
N°4	48.00	56	11	3.5
N°5	44.00	56	11	3.5
N°6	40.00	56	12	4.0
N°9	36.00	63	12	4.5
N°10	32.00	70	14	6.0

D	P	L mm	I mm	d mm
N°12	28.00	80	18	6.0
1/4	20.00	80	18	7.0
5/16	24.00	90	20	8.0
3/8	24.00	100	20	10.0

2276

HSSE DIN 371

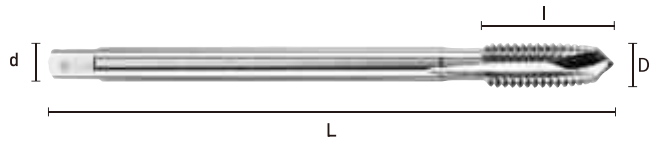
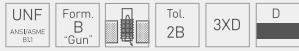


D	P	L mm	I mm	d mm
N°4	48.00	56	11	3.5
N°5	44.00	56	11	3.5
N°6	40.00	56	12	4.0
N°8	36.00	63	12	4.5
N°10	32.00	70	14	6.0

D	P	L mm	I mm	d mm
N°12	28.00	80	18	6.0
1/4	20.00	80	18	7.0
5/16	24.00	90	20	8.0
3/8	24.00	100	20	10.0

2155

HSSE DIN 376

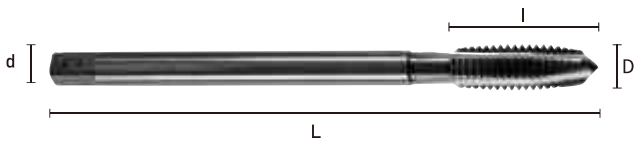


D	P	L mm	I mm	d mm
1/4	28.00	80	19	4.5
5/16	24.00	90	22	6.0
3/8	24.00	90	20	7.0
7/16	20.00	100	20	8.0
1/2	20.00	100	20	9.0

D	P	L mm	I mm	d mm
9/16	18.00	100	20	11.0
5/8	18.00	100	20	12.0
3/4	16.00	110	24	14.0
7/8	14.00	125	24	18.0
1"	12.00	140	27	18.0

2277

HSSE DIN 376

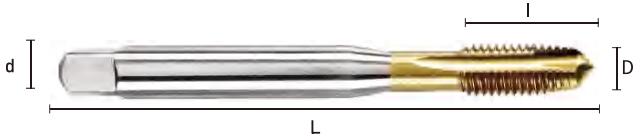


D	P	L mm	I mm	d mm
7/16	20.00	100	20	8.0
1/2	20.00	100	20	9.0
9/16	18.00	100	20	11.0
5/8	18.00	100	20	12.0

D	P	L mm	I mm	d mm
3/4	16.00	110	24	14.0
7/8	14.00	125	24	18.0
1"	12.00	140	27	18.0

2280

HSSE DIN 371

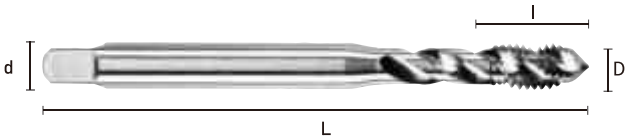


D	P	L mm	I mm	d mm
N°4	48.00	56	11	3.5
N°5	44.00	56	11	3.5
N°6	40.00	56	12	4.0
N°8	36.00	63	12	4.5
N°10	32.00	70	14	6.0

D	P	L mm	I mm	d mm
N°12	28.00	80	18	6.0
1/4	20.00	80	18	7.0
5/16	24.00	90	20	8.0
3/8	24.00	100	20	10.0

2106

HSSE DIN 371

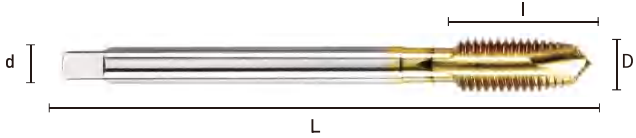


D	P	L mm	I mm	d mm
M2.0	0.40	45	5	2.8
M2.2	0.45	45	10	2.8
M2.3	0.45	45	10	2.8
M2.5	0.45	50	5	2.8
M2.6	0.45	50	5	2.8
M3.0	0.35	56	5	3.5
M3.0	0.50	56	6	3.5
M3.5	0.35	56	5	4.0
M3.5	0.60	56	6	4.0
M4.0	0.50	63	7	4.0
M4.0	0.70	63	7	4.5

D	P	L mm	I mm	d mm
M4.5	0.75	70	7	6.0
M5.0	0.50	70	8	6.0
M5.0	0.80	70	8	6.0
M6.0	0.75	80	10	6.0
M6.0	1.00	80	10	6.0
M7.0	1.00	80	10	7.0
M8.0	0.75	80	10	8.0
M8.0	1.25	90	14	8.0
M9.0	1.25	90	13	9.0
M10.0	1.50	100	16	10.0

2281

HSSE DIN 376

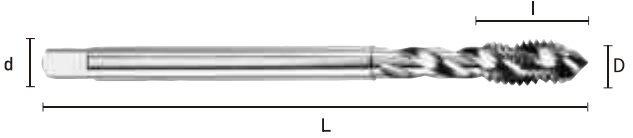


D	P	L mm	I mm	d mm
7/16	20.00	100	20	8.0
1/2	20.00	100	20	9.0
9/16	18.00	100	20	11.0
5/8	18.00	100	20	12.0

D	P	L mm	I mm	d mm
3/4	16.00	110	24	14.0
7/8	14.00	125	24	18.0
1"	12.00	140	27	18.0

2105

HSSE DIN 376/374



D	P	L mm	I mm	d mm
M3.0	0.50	56	5	2.2
M4.0	0.70	63	7	2.8
M5.0	0.80	70	8	3.5
M6.0	1.00	80	10	4.5
M7.0	1.00	80	10	5.5
M8.0	1.00	90	10	6.0
M8.0	1.25	90	14	6.0

D	P	L mm	I mm	d mm
M9.0	1.00	90	10	7.0
M9.0	1.25	90	13	7.0
M10.0	0.75	90	10	7.0
M10.0	1.00	90	10	7.0
M10.0	1.25	100	15	7.0
M10.0	1.50	100	16	7.0
M11.0	1.00	90	10	8.0

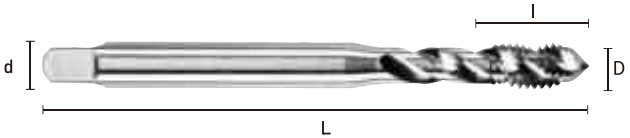
D	P	L mm	l mm	d mm
M11.0	1.25	100	15	8.0
M11.0	1.50	100	15	8.0
M12.0	1.00	100	10	9.0
M12.0	1.25	100	15	9.0
M12.0	1.50	100	15	9.0
M12.0	1.75	110	18	9.0
M14.0	1.00	110	10	11.0
M14.0	1.25	100	15	11.0
M14.0	1.50	100	15	11.0
M14.0	2.00	110	20	11.0
M15.0	1.00	100	10	12.0
M15.0	1.50	100	20	12.0
M16.0	1.00	100	10	12.0
M16.0	1.25	100	20	12.0
M16.0	1.50	100	15	12.0
M16.0	2.00	110	20	12.0
M18.0	1.00	110	13	14.0
M18.0	1.50	110	20	14.0
M18.0	2.00	125	20	14.0
M18.0	2.50	125	25	14.0
M20.0	1.00	125	13	16.0
M20.0	1.50	125	20	16.0
M20.0	2.00	140	20	16.0
M20.0	2.50	140	25	16.0
M22.0	1.00	125	13	18.0
M22.0	1.50	125	17	18.0
M22.0	2.00	140	20	18.0
M22.0	2.50	140	27	18.0
M24.0	1.00	140	13	18.0
M24.0	1.50	140	20	18.0
M24.0	2.00	140	20	18.0
M24.0	3.00	160	30	18.0
M25.0	1.50	140	20	18.0
M26.0	1.50	140	20	18.0
M27.0	2.00	140	20	20.0
M27.0	3.00	160	30	20.0

D	P	L mm	l mm	d mm
M28.0	1.50	140	20	20.0
M28.0	2.00	140	20	20.0
M30.0	1.50	150	22	22.0
M30.0	2.00	150	22	22.0
M30.0	3.50	180	35	22.0
M32.0	1.50	150	22	22.0
M33.0	1.50	160	22	25.0
M33.0	2.00	160	24	25.0
M33.0	3.50	180	35	25.0
M35.0	1.50	170	22	28.0
M36.0	1.50	170	22	28.0
M36.0	2.00	170	24	28.0
M36.0	3.00	200	30	28.0
M36.0	4.00	200	40	28.0
M38.0	1.50	170	24	28.0
M39.0	1.50	170	25	32.0
M39.0	2.00	170	25	32.0
M39.0	3.00	170	30	32.0
M39.0	4.00	200	40	32.0
M40.0	1.50	170	25	32.0
M40.0	2.00	170	25	32.0
M40.0	3.00	200	25	32.0
M42.0	1.50	170	25	32.0
M42.0	2.00	170	25	32.0
M42.0	3.00	170	30	32.0
M42.0	4.50	200	45	32.0
M45.0	1.50	180	27	36.0
M45.0	2.00	180	27	36.0
M45.0	3.00	200	30	36.0
M45.0	4.50	220	45	36.0
M48.0	1.50	190	27	36.0
M48.0	2.00	190	27	36.0
M48.0	3.00	225	33	36.0
M48.0	5.00	250	50	36.0
M50.0	1.50	190	27	36.0
M52.0	5.00	250	50	40.0

2106/5

HSSE DIN 371

M-MF DIN 13	Form. C		Tol. 6H		35°		LH		3XD		R
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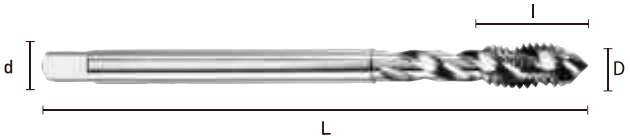
D	P	L mm	l mm	d mm
M3.0	0.50	56	6	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	l mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	14	8.0
M10.0	1.50	100	16	10.0

2105/5

HSSE DIN 376/374

M-MF DIN 13	Form. C		Tol. 6H		35°		LH		3XD		R
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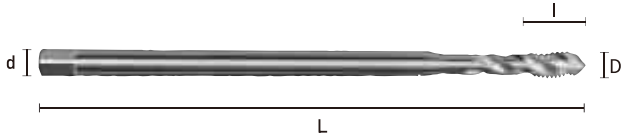
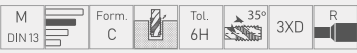


D	P	L mm	l mm	d mm
M12.0	1.75	110	18	9.0
M16.0	2.00	110	20	12.0

D	P	L mm	l mm	d mm
M20.0	2.50	140	25	16.0
M24.0	1.50	140	20	18.0

2112

HSSE DIN 371-L

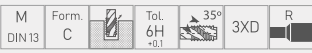


D	P	L mm	I mm	d mm
M3.0	0.50	100	5	3.5
M4.0	0.70	125	7	4.5
M5.0	0.80	140	8	6.0
M6.0	1.00	160	10	6.0

D	P	L mm	I mm	d mm
M8.0	1.25	150	14	8.0
M10.0	1.50	150	16	10.0
M12.0	1.75	150	18	12.0

2166

HSSE DIN 371

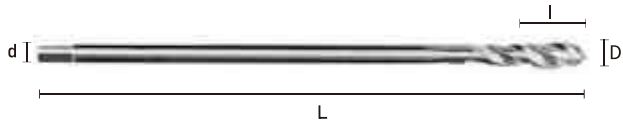


D	P	L mm	I mm	d mm
M3.0	0.50	56	6	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	110	15	10.0

2273

HSSE DIN 376-L

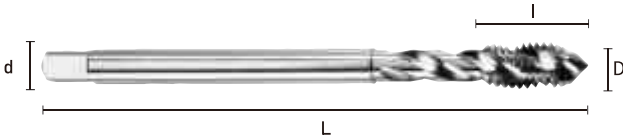


D	P	L mm	I mm	d mm
M8.0	1.25	180	20	6.0
M10.0	1.50	200	20	7.0

D	P	L mm	I mm	d mm
M12.0	1.75	220	24	9.0
M16.0	2.00	220	32	12.0

2165

HSSE DIN 376



D	P	L mm	I mm	d mm
M8.0	1.25	90	15	6.0
M10.0	1.50	100	17	7.0
M12.0	1.75	110	18	7.0

D	P	L mm	I mm	d mm
M14.0	2.00	110	20	11.0
M16.0	2.00	110	20	12.0

2170

HSSE DIN 371



D	P	L mm	I mm	d mm
M3.0	0.50	56	6	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	110	15	10.0

2108

HSSE DIN 371



D	P	L mm	I mm	d mm
M2.0	0.40	45	8	2.8
M3.0	0.50	56	11	3.5
M4.0	0.70	63	13	4.5
M5.0	0.80	70	16	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	19	6.0
M7.0	1.00	80	19	7.0
M8.0	1.25	90	22	8.0
M10.0	1.50	100	24	10.0

2208

HSSE DIN 376



D	P	L mm	I mm	d mm
M8.0	1.25	90	15	6.0
M10.0	1.50	100	17	7.0
M12.0	1.75	110	18	7.0
M14.0	2.00	110	20	11.0

D	P	L mm	I mm	d mm
M16.0	2.00	110	20	12.0
M18.0	2.50	125	25	14.0
M20.0	2.50	140	25	16.0

2107

HSSE DIN 376/374



D	P	L mm	I mm	d mm
M4.0	0.70	63	13	2.8
M5.0	0.80	70	16	3.5
M6.0	1.00	80	19	4.5
M7.0	1.00	80	19	5.5
M8.0	1.25	90	22	6.0
M10.0	1.50	100	24	7.0
M12.0	1.25	100	20	9.0
M14.0	2.00	110	30	11.0

D	P	L mm	I mm	d mm
M16.0	2.00	110	30	12.0
M18.0	2.50	125	34	14.0
M20.0	2.50	140	34	16.0
M22.0	2.50	140	34	18.0
M24.0	3.00	160	38	18.0
M27.0	3.00	160	38	20.0
M30.0	3.50	180	45	22.0
M36.0	4.00	200	56	28.0

2252

HSSE DIN 371

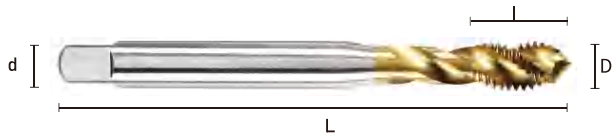


D	P	L mm	I mm	d mm
M2.0	0.40	45	10	2.8
M2.5	0.45	50	9	2.8
M3.0	0.50	56	11	3.5
M3.5	0.60	56	12	4.0
M4.0	0.70	63	13	4.5

D	P	L mm	I mm	d mm
M5.0	0.80	70	16	6.0
M6.0	1.00	80	19	6.0
M8.0	1.25	90	22	8.0
M10.0	1.50	100	24	10.0

2118

HSSE DIN 371



D	P	L mm	I mm	d mm
M2.0	0.40	45	5	2.8
M2.5	0.45	50	5	2.8
M3.0	0.50	56	6	3.5
M3.5	0.60	56	6	4.0
M4.0	0.70	63	7	4.5

D	P	L mm	I mm	d mm
M5.0	0.80	70	8	6.0
M6.0	1.00	80	10	6.0
M8.0	1.25	90	14	8.0
M10.0	1.50	100	16	10.0

2253

HSSE DIN 376/374

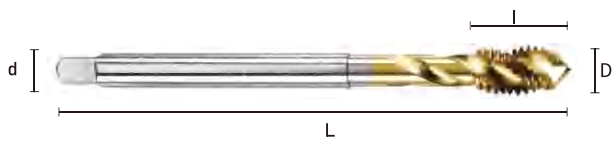


D	P	L mm	I mm	d mm
M3.0	0.50	56	5	3.5
M4.0	0.70	63	7	2.8
M5.0	0.80	70	8	3.5
M6.0	1.00	80	10	4.5
M8.0	1.00	90	10	6.0
M8.0	1.25	90	14	6.0
M10.0	1.00	90	10	7.0
M10.0	1.25	100	15	7.0
M10.0	1.50	100	16	7.0
M12.0	1.00	100	10	9.0
M12.0	1.25	100	15	9.0
M12.0	1.50	100	15	9.0
M12.0	1.75	110	18	9.0
M14.0	1.00	100	10	11.0
M14.0	1.25	100	15	11.0
M14.0	1.50	100	15	11.0

D	P	L mm	I mm	d mm
M14.0	2.00	110	20	11.0
M16.0	1.00	100	10	12.0
M16.0	1.50	100	15	12.0
M16.0	2.00	110	20	12.0
M18.0	1.00	110	13	14.0
M18.0	1.50	110	20	14.0
M18.0	2.50	125	25	14.0
M20.0	1.00	125	13	16.0
M20.0	1.50	125	20	16.0
M20.0	2.50	140	25	16.0
M22.0	1.00	125	13	16.0
M22.0	1.50	125	17	18.0
M22.0	2.50	140	27	18.0
M24.0	1.50	140	20	18.0
M24.0	2.00	140	20	18.0
M24.0	3.00	160	30	18.0

2117

HSSE DIN 376/374



D	P	L mm	I mm	d mm
M3.0	0.50	56	5	3.5
M4.0	0.70	63	7	2.8
M5.0	0.80	70	8	3.5
M6.0	1.00	80	10	4.5
M8.0	1.00	90	10	6.0
M8.0	1.25	90	14	6.0
M10.0	1.00	90	10	7.0
M10.0	1.25	100	15	7.0
M10.0	1.50	100	16	7.0
M12.0	1.00	100	10	9.0
M12.0	1.25	100	15	9.0
M12.0	1.50	100	15	9.0
M12.0	1.75	110	18	9.0
M14.0	1.00	100	10	11.0
M14.0	1.25	100	15	11.0
M14.0	1.50	100	15	11.0

D	P	L mm	I mm	d mm
M14.0	2.00	110	20	11.0
M16.0	1.00	100	10	12.0
M16.0	1.50	100	15	12.0
M16.0	2.00	110	20	12.0
M18.0	1.00	110	13	14.0
M18.0	1.50	110	20	14.0
M18.0	2.50	125	25	14.0
M20.0	1.00	125	13	16.0
M20.0	1.50	125	20	16.0
M20.0	2.50	140	25	16.0
M22.0	1.00	125	13	16.0
M22.0	1.50	125	17	18.0
M22.0	2.50	140	27	18.0
M24.0	1.50	140	20	18.0
M24.0	2.00	140	20	18.0
M24.0	3.00	160	30	18.0

2120

HSSE DIN 371



D	P	L mm	I mm	d mm
M3.0	0.50	56	5	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2182

HSSE DIN 371



D	P	L mm	I mm	d mm
M3.0	0.50	56	6	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	14	8.0
M10.0	1.50	110	16	10.0

2119

HSSE DIN 376/374



D	P	L mm	I mm	d mm
M8.0	1.00	90	10	6.0
M8.0	1.25	90	15	6.0
M10.0	1.00	90	10	7.0
M10.0	1.25	100	15	7.0
M10.0	1.50	100	17	7.0
M12.0	1.00	100	10	9.0
M12.0	1.25	100	15	9.0
M12.0	1.50	110	15	9.0
M12.0	1.75	110	18	9.0
M14.0	1.25	100	15	11.0

D	P	L mm	I mm	d mm
M14.0	1.50	100	15	11.0
M14.0	2.00	110	20	11.0
M16.0	1.50	100	15	12.0
M16.0	2.00	110	20	12.0
M18.0	1.50	110	17	14.0
M18.0	2.50	125	25	14.0
M20.0	1.50	125	17	16.0
M20.0	2.50	140	25	16.0
M22.0	2.50	140	25	18.0
M24.0	3.00	160	30	18.0

2181

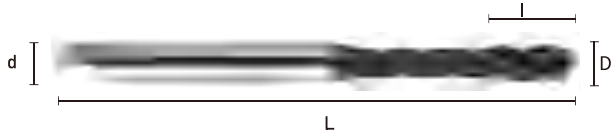
HSSE DIN 376



D	P	L mm	I mm	d mm
M6.0	1.00	80	18	4.5
M8.0	1.25	90	20	6.0
M10.0	1.50	100	22	7.0

D	P	L mm	I mm	d mm
M12.0	1.75	110	18	7.0
M14.0	2.00	110	20	11.0
M16.0	2.00	110	20	12.0

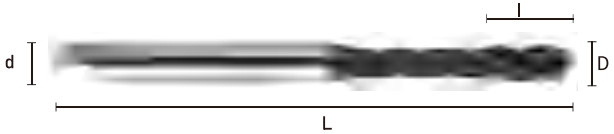
2256 HSSE-PM DIN 371 MULTI



D	P	L mm	I mm	d mm
M3.0	0.50	56	5	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2260 HSSE-PM DIN 371 SYNCHRO



D	P	L mm	I mm	d mm
M3.0	0.50	56	5	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2257 HSSE-PM DIN 376 MULTI



D	P	L mm	I mm	d mm
M12.0	1.75	110	18	9.0
M14.0	2.00	110	20	11.0

D	P	L mm	I mm	d mm
M16.0	2.00	110	20	12.0

2261 HSSE-PM DIN 376 SYNCHRO



D	P	L mm	I mm	d mm
M12.0	1.75	110	18	9.0
M14.0	2.00	110	20	11.0

D	P	L mm	I mm	d mm
M16.0	2.00	110	20	12.0

2264

HSSE DIN 371

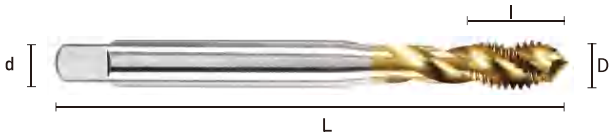


D	P	L mm	I mm	d mm
N°4	40.00	56	5	3.5
N°5	40.00	56	7	3.5
N°6	32.00	56	6	4.0
N°8	32.00	63	7	4.5
N°10	24.00	70	8	6.0

D	P	L mm	I mm	d mm
N°12	24.00	80	10	6.0
1/4	20.00	80	13	7.0
5/16	18.00	90	13	8.0
3/8	16.00	100	15	10.0

2236

HSSE DIN 371



D	P	L mm	I mm	d mm
N°4	40.00	56	5	3.5
N°5	40.00	56	7	3.5
N°6	32.00	56	6	4.0
N°8	32.00	63	7	4.5
N°10	24.00	70	8	6.0

D	P	L mm	I mm	d mm
N°12	24.00	80	10	6.0
1/4	20.00	80	13	7.0
5/16	18.00	90	13	8.0
3/8	16.00	100	15	10.0

2265

HSSE DIN 371

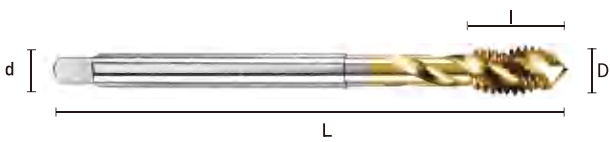


D	P	L mm	I mm	d mm
7/16	14.00	100	15	8.0
1/2	13.00	110	18	9.0
9/16	12.00	110	20	11.0
5/8	11.00	110	22	12.0

D	P	L mm	I mm	d mm
3/4	10.00	125	25	14.0
7/8	9.00	140	30	18.0
1"	8.00	160	30	20.0

2237

HSSE DIN 376



D	P	L mm	I mm	d mm
7/16	14.00	100	22	8.0
1/2	13.00	110	24	9.0
9/16	12.00	110	25	11.0
5/8	11.00	110	32	12.0

D	P	L mm	I mm	d mm
3/4	10.00	125	32	14.0
7/8	9.00	140	32	18.0
1"	8.00	160	38	20.0

2278

HSSE DIN 371



D	P	L mm	l mm	d mm
N°4	48.00	56	5	3.5
N°5	44.00	56	5	3.5
N°6	40.00	56	6	4.0
N°8	36.00	63	7	4.5
N°10	32.00	70	8	6.0

D	P	L mm	l mm	d mm
N°12	28.00	80	10	6.0
1/4	28.00	80	13	7.0
5/16	24.00	90	13	8.0
3/8	24.00	100	15	10.0

2282

HSSE DIN 371



D	P	L mm	l mm	d mm
N°4	48.00	56	5	3.5
N°5	44.00	56	5	3.5
N°6	40.00	56	6	4.0
N°8	36.00	63	7	4.5
N°10	32.00	70	8	6.0

D	P	L mm	l mm	d mm
N°12	28.00	80	10	6.0
1/4	28.00	80	13	7.0
5/16	24.00	90	13	8.0
3/8	24.00	100	15	10.0

2279

HSSE DIN 374



D	P	L mm	l mm	d mm
7/16	20.00	100	20	8.0
1/2	20.00	100	20	9.0
9/16	18.00	100	20	11.0
5/8	18.00	100	20	12.0

D	P	L mm	l mm	d mm
3/4	16.00	110	24	14.0
7/8	14.00	125	24	18.0
1"	12.00	140	27	18.0

2283

HSSE DIN 374



D	P	L mm	l mm	d mm
7/16	20.00	100	15	8.0
1/2	20.00	100	15	9.0
9/16	18.00	100	15	11.0
5/8	18.00	100	15	12.0

D	P	L mm	l mm	d mm
3/4	16.00	110	17	14.0
7/8	14.00	125	17	18.0
1"	12.00	140	20	18.0

2188

HSSE-PM DIN 371



D	P	L mm	I mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2214

HSSE-PM DIN 371

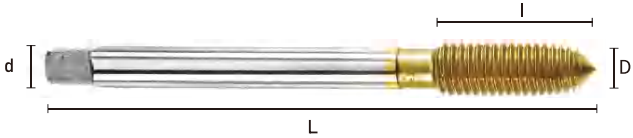
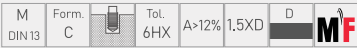


D	P	L mm	I mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	I mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2187

HSSE-PM DIN 376

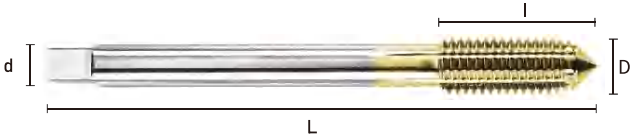


D	P	L mm	I mm	d mm
M12.0	1.75	110	18	9.0
M14.0	2.00	110	20	11.0

D	P	L mm	I mm	d mm
M16.0	2.00	110	20	12.0

2213

HSSE-PM DIN 376



D	P	L mm	I mm	d mm
M8.0	1.00	90	13	6.0
M8.0	1.25	90	13	6.0
M10.0	1.00	90	13	7.0
M10.0	1.25	100	15	7.0
M10.0	1.50	100	15	7.0
M12.0	1.00	100	10	9.0

D	P	L mm	I mm	d mm
M12.0	1.25	110	15	9.0
M12.0	1.50	110	15	9.0
M12.0	1.75	110	18	9.0
M14.0	2.00	110	20	11.0
M16.0	1.50	110	15	12.0
M16.0	2.00	110	20	12.0

2216

HSSE-PM DIN 371



D	P	L mm	l mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	l mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2218

HSSE-PM DIN 371

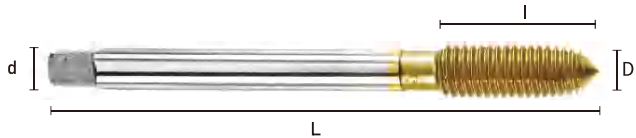
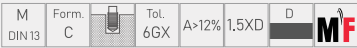


D	P	L mm	l mm	d mm
M3.0	0.50	56	10	3.5
M4.0	0.70	63	7	4.5
M5.0	0.80	70	8	6.0

D	P	L mm	l mm	d mm
M6.0	1.00	80	10	6.0
M8.0	1.25	90	13	8.0
M10.0	1.50	100	15	10.0

2215

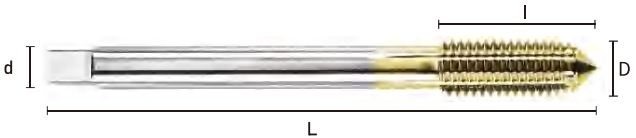
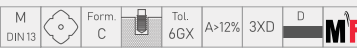
HSSE-PM DIN 376



D	P	L mm	l mm	d mm
M12.0	1.75	110	18	9.0

2217

HSSE-PM DIN 376



D	P	L mm	l mm	d mm
M12.0	1.75	110	18	9.0

195

Annular Cutter Model Description 钢板钻型号说明

196

Weldon Shank T.C.T Cutters 削平柄T.C.T硬质合金铁板钻

200

Universal Shank T.C.T Cutters 通用柄T.C.T硬质合金铁板钻

202

Feint Shank T.C.T Cutters 泛音柄T.C.T硬质合金铁板钻

204

Weldon Shank T.C.T Rail Cutters 削平柄T.C.T硬质合金铁轨钻

205

Morse Taper Adapter 莫氏锥柄转接杆

207

Magnetic Drilling Rig 磁力钻机



ANNULAR CUTTERS 铁板钻

钢板钻型号说明

Annular Cutter Model Description

A	T	R	W	S	-	120
1	2	3	4	5		6

1
Tool group 刀具组
A Annular Cutter (钢板钻)

2
Drill type 刀具类型
T Tungsten Carbide Tipped 钨硬质合金
H High Speed Steel 高速钢

3
Special Application 特殊用途
R For rail 加工铁轨
S For Steel 加工钢板
M For Multilayer steel plate 加工多层板

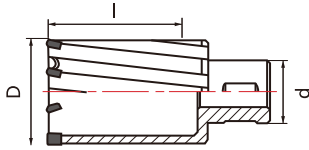
4
Tool shank type 刀柄类型
W Weldon Shank 削平柄
U Universal Shank 斜削柄
F Fein Shank Fein柄

5
Tool Groove 刀具槽型
L Long Flute 长槽
S Short Flute 短槽

6
Diameter 刀具刀径

Annular
Cutter

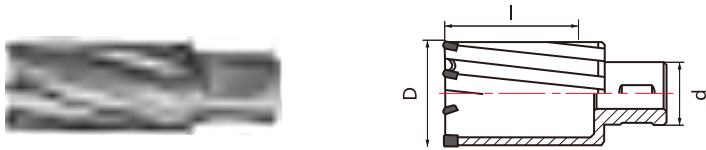
削平柄T.C.T硬质合金铁板钻 Weldon Shank T.C.T Cutters



Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSWL-12	12	19.05	35/50
ATSWL-13	13	19.05	35/50
ATSWL-14	14	19.05	35/50
ATSWL-15	15	19.05	35/50
ATSWL-16	16	19.05	35/50
ATSWL-17	17	19.05	35/50
ATSWL-18	18	19.05	35/50/75/100
ATSWL-19	19	19.05	35/50/75/100
ATSWL-20	20	19.05	35/50/75/100
ATSWL-21	21	19.05	35/50/75/100
ATSWL-22	22	19.05	35/50/75/100
ATSWL-23	23	19.05	35/50/75/100
ATSWL-24	24	19.05	35/50/75/100
ATSWL-25	25	19.05	35/50/75/100
ATSWL-26	26	19.05	35/50/75/100
ATSWL-27	27	19.05	35/50/75/100
ATSWL-28	28	19.05	35/50/75/100
ATSWL-29	29	19.05	35/50/75/100
ATSWL-30	30	19.05	35/50/75/100
ATSWL-31	31	19.05	35/50/75/100
ATSWL-32	32	19.05	35/50/75/100
ATSWL-33	33	19.05	35/50/75/100
ATSWL-34	34	19.05	35/50/75/100
ATSWL-35	35	19.05	35/50/75/100
ATSWL-36	36	19.05	35/50/75/100
ATSWL-37	37	19.05	35/50/75/100
ATSWL-38	38	19.05	35/50/75/100
ATSWL-39	39	19.05	35/50/75/100
ATSWL-40	40	19.05	35/50/75/100
ATSWL-41	41	19.05	35/50/75/100
ATSWL-42	42	19.05	35/50/75/100
ATSWL-43	43	19.05	35/50/75/100
ATSWL-44	44	19.05	35/50/75/100
ATSWL-45	45	19.05	35/50/75/100
ATSWL-46	46	19.05	35/50/75/100
ATSWL-47	47	19.05	35/50/75/100
ATSWL-48	48	19.05	35/50/75/100

Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSWL-49	49	19.05	35/50/75/100
ATSWL-50	50	19.05	35/50/75/100
ATSWL-51	51	19.05	35/50/75/100
ATSWL-52	52	19.05	35/50/75/100
ATSWL-53	53	19.05	35/50/75/100
ATSWL-54	54	19.05	35/50/75/100
ATSWL-55	55	19.05	35/50/75/100
ATSWL-56	56	19.05	35/50/75/100
ATSWL-57	57	19.05	35/50/75/100
ATSWL-58	58	19.05	35/50/75/100
ATSWL-59	59	19.05	35/50/75/100
ATSWL-60	60	19.05	35/50/75/100
ATSWL-61	61	31.75	35/50/75/100
ATSWL-62	62	31.75	35/50/75/100
ATSWL-63	63	31.75	35/50/75/100
ATSWL-64	64	31.75	35/50/75/100
ATSWL-65	65	31.75	35/50/75/100
ATSWL-66	66	31.75	35/50/75/100
ATSWL-67	67	31.75	35/50/75/100
ATSWL-68	68	31.75	35/50/75/100
ATSWL-69	69	31.75	35/50/75/100
ATSWL-70	70	31.75	35/50/75/100
ATSWL-71	71	31.75	35/50/75/100
ATSWL-72	72	31.75	35/50/75/100
ATSWL-73	73	31.75	35/50/75/100
ATSWL-74	74	31.75	35/50/75/100
ATSWL-75	75	31.75	35/50/75/100
ATSWL-76	76	31.75	35/50/75/100
ATSWL-77	77	31.75	35/50/75/100
ATSWL-78	78	31.75	35/50/75/100
ATSWL-79	79	31.75	35/50/75/100
ATSWL-80	80	31.75	35/50/75/100
ATSWL-81	81	31.75	35/50/75/100
ATSWL-82	82	31.75	35/50/75/100
ATSWL-83	83	31.75	35/50/75/100
ATSWL-84	84	31.75	35/50/75/100
ATSWL-85	85	31.75	35/50/75/100

Annular Cutter
削平柄T.C.T硬质合金铁板钻 Weldon Shank T.C.T Cutters

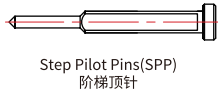


Product Type 产品型号	D 刃径	d 柄径	I 有效切深
ATSWL-86	86	31.75	35/50/75/100
ATSWL-87	87	31.75	35/50/75/100
ATSWL-88	88	31.75	35/50/75/100
ATSWL-89	89	31.75	35/50/75/100
ATSWL-90	90	31.75	35/50/75/100
ATSWL-91	91	31.75	35/50/75/100
ATSWL-92	92	31.75	35/50/75/100
ATSWL-93	93	31.75	35/50/75/100
ATSWL-94	94	31.75	35/50/75/100
ATSWL-95	95	31.75	35/50/75/100
ATSWL-96	96	31.75	35/50/75/100
ATSWL-97	97	31.75	35/50/75/100
ATSWL-98	98	31.75	35/50/75/100
ATSWL-99	99	31.75	35/50/75/100
ATSWL-100	100	31.75	35/50/75/100
ATSWL-101	101	31.75	35/50/75/100
ATSWL-102	102	31.75	35/50/75/100
ATSWL-103	103	31.75	35/50/75/100
ATSWL-104	104	31.75	35/50/75/100
ATSWL-105	105	31.75	35/50/75/100
ATSWL-106	106	31.75	35/50/75/100
ATSWL-107	107	31.75	35/50/75/100
ATSWL-108	108	31.75	35/50/75/100
ATSWL-109	109	31.75	35/50/75/100
ATSWL-110	110	31.75	35/50/75/100
ATSWL-112	112	31.75	35/50/75/100
ATSWL-113	113	31.75	35/50/75/100
ATSWL-114	114	31.75	35/50/75/100
ATSWL-115	115	31.75	35/50/75/100
ATSWL-116	116	31.75	35/50/75/100
ATSWL-117	117	31.75	35/50/75/100
ATSWL-118	118	31.75	35/50/75/100
ATSWL-119	119	31.75	35/50/75/100
ATSWL-120	120	31.75	35/50/75/100
ATSWL-121	121	31.75	35/50/75/100
ATSWL-122	122	31.75	35/50/75/100
ATSWL-123	123	31.75	35/50/75/100

Product Type 产品型号	D 刃径	d 柄径	I 有效切深
ATSWL-124	124	31.75	35/50/75/100
ATSWL-125	125	31.75	35/50/75/100
ATSWL-126	126	31.75	35/50/75/100
ATSWL-127	127	31.75	35/50/75/100
ATSWL-128	128	31.75	35/50/75/100
ATSWL-129	129	31.75	35/50/75/100
ATSWL-130	130	31.75	35/50/75/100
ATSWL-131	131	31.75	35/50/75/100
ATSWL-132	132	31.75	35/50/75/100
ATSWL-133	133	31.75	35/50/75/100
ATSWL-134	134	31.75	35/50/75/100
ATSWL-135	135	31.75	35/50/75/100
ATSWL-136	136	31.75	35/50/75/100
ATSWL-137	137	31.75	35/50/75/100
ATSWL-138	138	31.75	35/50/75/100
ATSWL-139	139	31.75	35/50/75/100
ATSWL-140	140	31.75	35/50/75/100
ATSWL-141	141	31.75	35/50/75/100
ATSWL-142	142	31.75	35/50/75/100
ATSWL-143	143	31.75	35/50/75/100
ATSWL-144	144	31.75	35/50/75/100
ATSWL-145	145	31.75	35/50/75/100
ATSWL-146	146	31.75	35/50/75/100
ATSWL-147	147	31.75	35/50/75/100
ATSWL-148	148	31.75	35/50/75/100
ATSWL-149	149	31.75	35/50/75/100
ATSWL-150	150	31.75	35/50/75/100

Pilot Pins 顶针

规格 Dia	切深 Cutting Depth				型号 Type
公制 Metric	35	50	75	100	
d≤17	Φ6.35*90	Φ6.35*103	Φ6.35*130	Φ6.35*165	SPP
d>17-60	Φ8*90	Φ8*103	Φ8*130	Φ8*165	PP
d>60	Φ8*103	Φ8*115	Φ8*140	Φ8*175	PP



Annular Cutter
削平柄T.C.T硬质合金铁板钻 Weldon Shank T.C.T Cutters

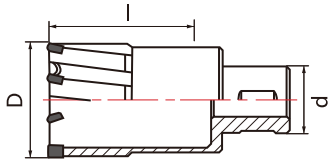


Product Type 产品型号	D 刃径	d 柄径	I 有效切深
ATSWS-12	12	19.05	35/50
ATSWS-13	13	19.05	35/50
ATSWS-14	14	19.05	35/50
ATSWS-15	15	19.05	35/50
ATSWS-16	16	19.05	35/50
ATSWS-17	17	19.05	35/50
ATSWS-18	18	19.05	35/50/75/100
ATSWS-19	19	19.05	35/50/75/100
ATSWS-20	20	19.05	35/50/75/100
ATSWS-21	21	19.05	35/50/75/100
ATSWS-22	22	19.05	35/50/75/100
ATSWS-23	23	19.05	35/50/75/100
ATSWS-24	24	19.05	35/50/75/100
ATSWS-25	25	19.05	35/50/75/100
ATSWS-26	26	19.05	35/50/75/100
ATSWS-27	27	19.05	35/50/75/100
ATSWS-28	28	19.05	35/50/75/100
ATSWS-29	29	19.05	35/50/75/100
ATSWS-30	30	19.05	35/50/75/100
ATSWS-31	31	19.05	35/50/75/100
ATSWS-32	32	19.05	35/50/75/100
ATSWS-33	33	19.05	35/50/75/100
ATSWS-34	34	19.05	35/50/75/100
ATSWS-35	35	19.05	35/50/75/100
ATSWS-36	36	19.05	35/50/75/100
ATSWS-37	37	19.05	35/50/75/100
ATSWS-38	38	19.05	35/50/75/100
ATSWS-39	39	19.05	35/50/75/100
ATSWS-40	40	19.05	35/50/75/100
ATSWS-41	41	19.05	35/50/75/100
ATSWS-42	42	19.05	35/50/75/100
ATSWS-43	43	19.05	35/50/75/100
ATSWS-44	44	19.05	35/50/75/100
ATSWS-45	45	19.05	35/50/75/100
ATSWS-46	46	19.05	35/50/75/100
ATSWS-47	47	19.05	35/50/75/100
ATSWS-48	48	19.05	35/50/75/100

Product Type 产品型号	D 刃径	d 柄径	I 有效切深
ATSWS-49	49	19.05	35/50/75/100
ATSWS-50	50	19.05	35/50/75/100
ATSWS-51	51	19.05	35/50/75/100
ATSWS-52	52	19.05	35/50/75/100
ATSWS-53	53	19.05	35/50/75/100
ATSWS-54	54	19.05	35/50/75/100
ATSWS-55	55	19.05	35/50/75/100
ATSWS-56	56	19.05	35/50/75/100
ATSWS-57	57	19.05	35/50/75/100
ATSWS-58	58	19.05	35/50/75/100
ATSWS-59	59	19.05	35/50/75/100
ATSWS-60	60	19.05	35/50/75/100
ATSWS-61	61	31.75	35/50/75/100
ATSWS-62	62	31.75	35/50/75/100
ATSWS-63	63	31.75	35/50/75/100
ATSWS-64	64	31.75	35/50/75/100
ATSWS-65	65	31.75	35/50/75/100
ATSWS-66	66	31.75	35/50/75/100
ATSWS-67	67	31.75	35/50/75/100
ATSWS-68	68	31.75	35/50/75/100
ATSWS-69	69	31.75	35/50/75/100
ATSWS-70	70	31.75	35/50/75/100
ATSWS-71	71	31.75	35/50/75/100
ATSWS-72	72	31.75	35/50/75/100
ATSWS-73	73	31.75	35/50/75/100
ATSWS-74	74	31.75	35/50/75/100
ATSWS-75	75	31.75	35/50/75/100
ATSWS-76	76	31.75	35/50/75/100
ATSWS-77	77	31.75	35/50/75/100
ATSWS-78	78	31.75	35/50/75/100
ATSWS-79	79	31.75	35/50/75/100
ATSWS-80	80	31.75	35/50/75/100
ATSWS-81	81	31.75	35/50/75/100
ATSWS-82	82	31.75	35/50/75/100
ATSWS-83	83	31.75	35/50/75/100
ATSWS-84	84	31.75	35/50/75/100
ATSWS-85	85	31.75	35/50/75/100

Annular Cutter

削平柄T.C.T硬质合金铁板钻 Weldon Shank T.C.T Cutters

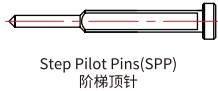


Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSWS-86	86	31.75	35/50/75/100
ATSWS-87	87	31.75	35/50/75/100
ATSWS-88	88	31.75	35/50/75/100
ATSWS-89	89	31.75	35/50/75/100
ATSWS-90	90	31.75	35/50/75/100
ATSWS-91	91	31.75	35/50/75/100
ATSWS-92	92	31.75	35/50/75/100
ATSWS-93	93	31.75	35/50/75/100
ATSWS-94	94	31.75	35/50/75/100
ATSWS-95	95	31.75	35/50/75/100
ATSWS-96	96	31.75	35/50/75/100
ATSWS-97	97	31.75	35/50/75/100
ATSWS-98	98	31.75	35/50/75/100
ATSWS-99	99	31.75	35/50/75/100
ATSWS-100	100	31.75	35/50/75/100
ATSWS-101	101	31.75	35/50/75/100
ATSWS-102	102	31.75	35/50/75/100
ATSWS-103	103	31.75	35/50/75/100
ATSWS-104	104	31.75	35/50/75/100
ATSWS-105	105	31.75	35/50/75/100
ATSWS-106	106	31.75	35/50/75/100
ATSWS-107	107	31.75	35/50/75/100
ATSWS-108	108	31.75	35/50/75/100
ATSWS-109	109	31.75	35/50/75/100
ATSWS-110	110	31.75	35/50/75/100
ATSWS-112	112	31.75	35/50/75/100
ATSWS-113	113	31.75	35/50/75/100
ATSWS-114	114	31.75	35/50/75/100
ATSWS-115	115	31.75	35/50/75/100
ATSWS-116	116	31.75	35/50/75/100
ATSWS-117	117	31.75	35/50/75/100
ATSWS-118	118	31.75	35/50/75/100
ATSWS-119	119	31.75	35/50/75/100
ATSWS-120	120	31.75	35/50/75/100
ATSWS-121	121	31.75	35/50/75/100
ATSWS-122	122	31.75	35/50/75/100
ATSWS-123	123	31.75	35/50/75/100

Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSWS-124	124	31.75	35/50/75/100
ATSWS-125	125	31.75	35/50/75/100
ATSWS-126	126	31.75	35/50/75/100
ATSWS-127	127	31.75	35/50/75/100
ATSWS-128	128	31.75	35/50/75/100
ATSWS-129	129	31.75	35/50/75/100
ATSWS-130	130	31.75	35/50/75/100
ATSWS-131	131	31.75	35/50/75/100
ATSWS-132	132	31.75	35/50/75/100
ATSWS-133	133	31.75	35/50/75/100
ATSWS-134	134	31.75	35/50/75/100
ATSWS-135	135	31.75	35/50/75/100
ATSWS-136	136	31.75	35/50/75/100
ATSWS-137	137	31.75	35/50/75/100
ATSWS-138	138	31.75	35/50/75/100
ATSWS-139	139	31.75	35/50/75/100
ATSWS-140	140	31.75	35/50/75/100
ATSWS-141	141	31.75	35/50/75/100
ATSWS-142	142	31.75	35/50/75/100
ATSWS-143	143	31.75	35/50/75/100
ATSWS-144	144	31.75	35/50/75/100
ATSWS-145	145	31.75	35/50/75/100
ATSWS-146	146	31.75	35/50/75/100
ATSWS-147	147	31.75	35/50/75/100
ATSWS-148	148	31.75	35/50/75/100
ATSWS-149	149	31.75	35/50/75/100
ATSWS-150	150	31.75	35/50/75/100

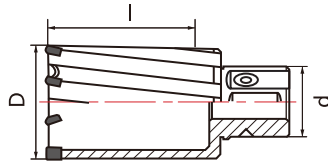
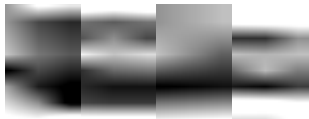
Pilot Pins 顶针

规格 Dia	切深 Cutting Depth				型号 Type
公制 Metric	35	50	75	100	
d≤17	Φ6.35*90	Φ6.35*103	Φ6.35*130	Φ6.35*165	SPP
d>17-60	Φ8*90	Φ8*103	Φ8*130	Φ8*165	PP
d>60	Φ8*103	Φ8*115	Φ8*140	Φ8*175	PP



Annular Cutter

通用柄T.C.T硬质合金铁板钻 Universal Shank T.C.T Cutters

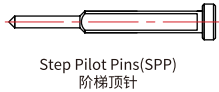


Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSUL-12	12	19.05	35/50/75/100
ATSUL-13	13	19.05	35/50/75/100
ATSUL-14	14	19.05	35/50/75/100
ATSUL-15	15	19.05	35/50/75/100
ATSUL-16	16	19.05	35/50/75/100
ATSUL-17	17	19.05	35/50/75/100
ATSUL-18	18	19.05	35/50/75/100
ATSUL-19	19	19.05	35/50/75/100
ATSUL-20	20	19.05	35/50/75/100
ATSUL-21	21	19.05	35/50/75/100
ATSUL-22	22	19.05	35/50/75/100
ATSUL-23	23	19.05	35/50/75/100
ATSUL-24	24	19.05	35/50/75/100
ATSUL-25	25	19.05	35/50/75/100
ATSUL-26	26	19.05	35/50/75/100
ATSUL-27	27	19.05	35/50/75/100
ATSUL-28	28	19.05	35/50/75/100
ATSUL-29	29	19.05	35/50/75/100
ATSUL-30	30	19.05	35/50/75/100
ATSUL-31	31	19.05	35/50/75/100
ATSUL-32	32	19.05	35/50/75/100
ATSUL-33	33	19.05	35/50/75/100
ATSUL-34	34	19.05	35/50/75/100
ATSUL-35	35	19.05	35/50/75/100
ATSUL-36	36	19.05	35/50/75/100
ATSUL-37	37	19.05	35/50/75/100
ATSUL-38	38	19.05	35/50/75/100
ATSUL-39	39	19.05	35/50/75/100
ATSUL-40	40	19.05	35/50/75/100
ATSUL-41	41	19.05	35/50/75/100
ATSUL-42	42	19.05	35/50/75/100
ATSUL-43	43	19.05	35/50/75/100
ATSUL-44	44	19.05	35/50/75/100

Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSUL-45	45	19.05	35/50/75/100
ATSUL-46	46	19.05	35/50/75/100
ATSUL-47	47	19.05	35/50/75/100
ATSUL-48	48	19.05	35/50/75/100
ATSUL-49	49	19.05	35/50/75/100
ATSUL-50	50	19.05	35/50/75/100
ATSUL-51	51	19.05	35/50/75/100
ATSUL-52	52	19.05	35/50/75/100
ATSUL-53	53	19.05	35/50/75/100
ATSUL-54	54	19.05	35/50/75/100
ATSUL-55	55	19.05	35/50/75/100
ATSUL-56	56	19.05	35/50/75/100
ATSUL-57	57	19.05	35/50/75/100
ATSUL-58	58	19.05	35/50/75/100
ATSUL-59	59	19.05	35/50/75/100
ATSUL-60	60	19.05	35/50/75/100
ATSUL-61	61	19.05	35/50/75/100
ATSUL-62	62	19.05	35/50/75/100
ATSUL-63	63	19.05	35/50/75/100
ATSUL-64	64	19.05	35/50/75/100
ATSUL-65	65	19.05	35/50/75/100

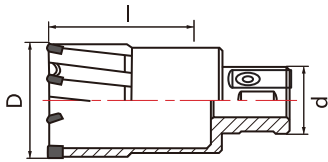
Pilot Pins 顶针

规格 Dia	切深 Cutting Depth			型号 Type
公制 Metric	35	50	75	
d≤17	Φ6.35*90	Φ6.35*103	Φ6.35*130	SPP
d>17-65	Φ6.35*90	Φ6.35*103	Φ6.35*130	PP



Annular
Cutter

通用柄T.C.T硬质合金铁板钻 Universal Shank T.C.T Cutters

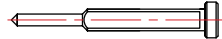


Product Type 产品型号	D 刃径	d 柄径	L 有效切深
ATSUS-12	12	19.05	35/50/75/100
ATSUS-13	13	19.05	35/50/75/100
ATSUS-14	14	19.05	35/50/75/100
ATSUS-15	15	19.05	35/50/75/100
ATSUS-16	16	19.05	35/50/75/100
ATSUS-17	17	19.05	35/50/75/100
ATSUS-18	18	19.05	35/50/75/100
ATSUS-19	19	19.05	35/50/75/100
ATSUS-20	20	19.05	35/50/75/100
ATSUS-21	21	19.05	35/50/75/100
ATSUS-22	22	19.05	35/50/75/100
ATSUS-23	23	19.05	35/50/75/100
ATSUS-24	24	19.05	35/50/75/100
ATSUS-25	25	19.05	35/50/75/100
ATSUS-26	26	19.05	35/50/75/100
ATSUS-27	27	19.05	35/50/75/100
ATSUS-28	28	19.05	35/50/75/100
ATSUS-29	29	19.05	35/50/75/100
ATSUS-30	30	19.05	35/50/75/100
ATSUS-31	31	19.05	35/50/75/100
ATSUS-32	32	19.05	35/50/75/100
ATSUS-33	33	19.05	35/50/75/100
ATSUS-34	34	19.05	35/50/75/100
ATSUS-35	35	19.05	35/50/75/100
ATSUS-36	36	19.05	35/50/75/100
ATSUS-37	37	19.05	35/50/75/100
ATSUS-38	38	19.05	35/50/75/100
ATSUS-39	39	19.05	35/50/75/100
ATSUS-40	40	19.05	35/50/75/100
ATSUS-41	41	19.05	35/50/75/100
ATSUS-42	42	19.05	35/50/75/100
ATSUS-43	43	19.05	35/50/75/100
ATSUS-44	44	19.05	35/50/75/100

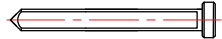
Product Type 产品型号	D 刃径	d 柄径	L 有效切深
ATSUS-45	45	19.05	35/50/75/100
ATSUS-46	46	19.05	35/50/75/100
ATSUS-47	47	19.05	35/50/75/100
ATSUS-48	48	19.05	35/50/75/100
ATSUS-49	49	19.05	35/50/75/100
ATSUS-50	50	19.05	35/50/75/100
ATSUS-51	51	19.05	35/50/75/100
ATSUS-52	52	19.05	35/50/75/100
ATSUS-53	53	19.05	35/50/75/100
ATSUS-54	54	19.05	35/50/75/100
ATSUS-55	55	19.05	35/50/75/100
ATSUS-56	56	19.05	35/50/75/100
ATSUS-57	57	19.05	35/50/75/100
ATSUS-58	58	19.05	35/50/75/100
ATSUS-59	59	19.05	35/50/75/100
ATSUS-60	60	19.05	35/50/75/100
ATSUS-61	61	19.05	35/50/75/100
ATSUS-62	62	19.05	35/50/75/100
ATSUS-63	63	19.05	35/50/75/100
ATSUS-64	64	19.05	35/50/75/100
ATSUS-65	65	19.05	35/50/75/100

Pilot Pins 顶针

规格 Dia	切深 Cutting Depth			型号 Type
公制 Metric	35	50	75	
d≤17	Φ6.35*90	Φ6.35*103	Φ6.35*130	SPP
d>17-65	Φ6.35*90	Φ6.35*103	Φ6.35*130	PP



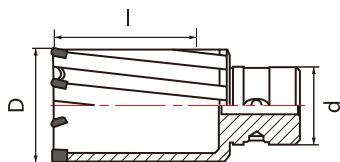
Step Pilot Pins(SPP)
阶梯顶针



Pilot Pins(PP)
直柄顶针

Annular
Cutter

泛音柄T.C.T硬质合金铁板钻 Feint Shank T.C.T Cutters

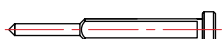


Product Type 产品型号	D 刃径	d 柄径	L 有效切深
ATSFL-12	12	19.05	35/50/75/100
ATSFL-13	13	19.05	35/50/75/100
ATSFL-14	14	19.05	35/50/75/100
ATSFL-15	15	19.05	35/50/75/100
ATSFL-16	16	19.05	35/50/75/100
ATSFL-17	17	19.05	35/50/75/100
ATSFL-18	18	19.05	35/50/75/100
ATSFL-19	19	19.05	35/50/75/100
ATSFL-20	20	19.05	35/50/75/100
ATSFL-21	21	19.05	35/50/75/100
ATSFL-22	22	19.05	35/50/75/100
ATSFL-23	23	19.05	35/50/75/100
ATSFL-24	24	19.05	35/50/75/100
ATSFL-25	25	19.05	35/50/75/100
ATSFL-26	26	19.05	35/50/75/100
ATSFL-27	27	19.05	35/50/75/100
ATSFL-28	28	19.05	35/50/75/100
ATSFL-29	29	19.05	35/50/75/100
ATSFL-30	30	19.05	35/50/75/100
ATSFL-31	31	19.05	35/50/75/100
ATSFL-32	32	19.05	35/50/75/100
ATSFL-33	33	19.05	35/50/75/100
ATSFL-34	34	19.05	35/50/75/100
ATSFL-35	35	19.05	35/50/75/100
ATSFL-36	36	19.05	35/50/75/100
ATSFL-37	37	19.05	35/50/75/100
ATSFL-38	38	19.05	35/50/75/100
ATSFL-39	39	19.05	35/50/75/100
ATSFL-40	40	19.05	35/50/75/100
ATSFL-41	41	19.05	35/50/75/100
ATSFL-42	42	19.05	35/50/75/100
ATSFL-43	43	19.05	35/50/75/100
ATSFL-44	44	19.05	35/50/75/100

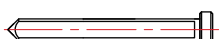
Product Type 产品型号	D 刃径	d 柄径	L 有效切深
ATSFL-45	45	19.05	35/50/75/100
ATSFL-46	46	19.05	35/50/75/100
ATSFL-47	47	19.05	35/50/75/100
ATSFL-48	48	19.05	35/50/75/100
ATSFL-49	49	19.05	35/50/75/100
ATSFL-50	50	19.05	35/50/75/100
ATSFL-51	51	19.05	35/50/75/100
ATSFL-52	52	19.05	35/50/75/100
ATSFL-53	53	19.05	35/50/75/100
ATSFL-54	54	19.05	35/50/75/100
ATSFL-55	55	19.05	35/50/75/100
ATSFL-56	56	19.05	35/50/75/100
ATSFL-57	57	19.05	35/50/75/100
ATSFL-58	58	19.05	35/50/75/100
ATSFL-59	59	19.05	35/50/75/100
ATSFL-60	60	19.05	35/50/75/100
ATSFL-61	61	19.05	35/50/75/100
ATSFL-62	62	19.05	35/50/75/100
ATSFL-63	63	19.05	35/50/75/100
ATSFL-64	64	19.05	35/50/75/100
ATSFL-65	65	19.05	35/50/75/100

Pilot Pins 顶针

规格 Dia	切深 Cutting Depth			型号 Type
公制 Metric	35	50	75	
d≤17	Φ6.35*90	Φ6.35*103	Φ6.35*130	SPP
d>17-65	Φ6.35*90	Φ6.35*103	Φ6.35*130	PP



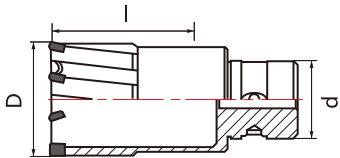
Step Pilot Pins(SPP)
阶梯顶针



Pilot Pins(PP)
直柄顶针

Annular
Cutter



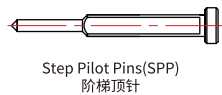


Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSFS-12	12	19.05	35/50/75/100
ATSFS-13	13	19.05	35/50/75/100
ATSFS-14	14	19.05	35/50/75/100
ATSFS-15	15	19.05	35/50/75/100
ATSFS-16	16	19.05	35/50/75/100
ATSFS-17	17	19.05	35/50/75/100
ATSFS-18	18	19.05	35/50/75/100
ATSFS-19	19	19.05	35/50/75/100
ATSFS-20	20	19.05	35/50/75/100
ATSFS-21	21	19.05	35/50/75/100
ATSFS-22	22	19.05	35/50/75/100
ATSFS-23	23	19.05	35/50/75/100
ATSFS-24	24	19.05	35/50/75/100
ATSFS-25	25	19.05	35/50/75/100
ATSFS-26	26	19.05	35/50/75/100
ATSFS-27	27	19.05	35/50/75/100
ATSFS-28	28	19.05	35/50/75/100
ATSFS-29	29	19.05	35/50/75/100
ATSFS-30	30	19.05	35/50/75/100
ATSFS-31	31	19.05	35/50/75/100
ATSFS-32	32	19.05	35/50/75/100
ATSFS-33	33	19.05	35/50/75/100
ATSFS-34	34	19.05	35/50/75/100
ATSFS-35	35	19.05	35/50/75/100
ATSFS-36	36	19.05	35/50/75/100
ATSFS-37	37	19.05	35/50/75/100
ATSFS-38	38	19.05	35/50/75/100
ATSFS-39	39	19.05	35/50/75/100
ATSFS-40	40	19.05	35/50/75/100
ATSFS-41	41	19.05	35/50/75/100
ATSFS-42	42	19.05	35/50/75/100
ATSFS-43	43	19.05	35/50/75/100
ATSFS-44	44	19.05	35/50/75/100

Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATSFS-45	45	19.05	35/50/75/100
ATSFS-46	46	19.05	35/50/75/100
ATSFS-47	47	19.05	35/50/75/100
ATSFS-48	48	19.05	35/50/75/100
ATSFS-49	49	19.05	35/50/75/100
ATSFS-50	50	19.05	35/50/75/100
ATSFS-51	51	19.05	35/50/75/100
ATSFS-52	52	19.05	35/50/75/100
ATSFS-53	53	19.05	35/50/75/100
ATSFS-54	54	19.05	35/50/75/100
ATSFS-55	55	19.05	35/50/75/100
ATSUS-56	56	19.05	35/50/75/100
ATSFS-57	57	19.05	35/50/75/100
ATSFS-58	58	19.05	35/50/75/100
ATSFS-59	59	19.05	35/50/75/100
ATSFS-60	60	19.05	35/50/75/100
ATSUS-61	61	19.05	35/50/75/100
ATSFS-62	62	19.05	35/50/75/100
ATSFS-63	63	19.05	35/50/75/100
ATSFS-64	64	19.05	35/50/75/100
ATSFS-65	65	19.05	35/50/75/100

Pilot Pins 顶针

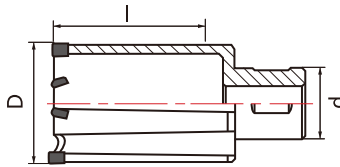
规格 Dia	切深 Cutting Depth			型号 Type
公制 Metric	35	50	75	
d≤17	Φ6.35*90	Φ6.35*103	Φ6.35*130	SPP
d>17-65	Φ6.35*90	Φ6.35*103	Φ6.35*130	PP



Step Pilot Pins(SPP)
阶梯顶针



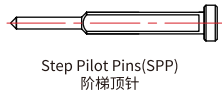
Pilot Pins(PP)
直柄顶针



Product Type 产品型号	D 刃径	d 柄径	l 有效切深
ATRWL-14	14	19.05	25/35/50
ATRWL-15	15	19.05	25/35/50
ATRWL-16	16	19.05	25/35/50
ATRWL-17	17	19.05	25/35/50
ATRWL-18	18	19.05	25/35/50
ATRWL-19	19	19.05	25/35/50
ATRWL-20	20	19.05	25/35/50
ATRWL-21	21	19.05	25/35/50
ATRWL-22	22	19.05	25/35/50
ATRWL-23	23	19.05	25/35/50
ATRWL-24	24	19.05	25/35/50
ATRWL-25	25	19.05	25/35/50
ATRWL-26	26	19.05	25/35/50
ATRWL-27	27	19.05	25/35/50
ATRWL-28	28	19.05	25/35/50
ATRWL-29	29	19.05	25/35/50
ATRWL-30	30	19.05	25/35/50
ATRWL-31	31	19.05	25/35/50
ATRWL-32	32	19.05	25/35/50
ATRWL-33	33	19.05	25/35/50
ATRWL-34	34	19.05	25/35/50
ATRWL-35	35	19.05	25/35/50
ATRWL-36	36	19.05	25/35/50

Pilot Pins 顶针

规格 Dia	切深 Cutting Depth			型号 Type
公制 Metric	25	35	50	
d≤17	Φ6.35*77	Φ6.35*90	Φ6.35*130	SPP
d>17-65	Φ6.35*77	Φ6.35*90	Φ6.35*130	PP



Step Pilot Pins(SPP)
阶梯顶针



Pilot Pins(PP)
直柄顶针

莫氏锥柄转接杆

型号	说明
WSMC2	莫氏 2 号柄转接 19.05（3/4 “）削平柄
WSMC3	莫氏 3 号柄转接 19.05（3/4 “）削平柄
WSMC4	莫氏 4 号柄转接 19.05（3/4 “）削平柄
WSMC2/32	莫氏 3 号柄转接 31.75（3/4 “）削平柄
WSMC4/32	莫氏 4 号柄转接 31.75（3/4 “）削平柄
WSIMC2	莫氏 2 号柄转接 19.05（3/4 “）削平柄
WSIMC3	莫氏 3 号柄转接 19.05（3/4 “）削平柄
WSIM4	莫氏 4 号柄转接 19.05（3/4 “）削平柄
WSIM3/32	莫氏 3 号柄转接 31.75（1-1/4 “）削平柄
WSIM4/32	莫氏 4 号柄转接 31.75（1-1/4 “）削平柄
WSEMC2	莫氏 2 号柄自锁转接 19.05（3/4 “）削平柄
WSEMC3	莫氏 3 号柄自锁转接 19.05（3/4 ’）削平柄
B16-WSMC2	莫氏 3 号柄转接 B16 锥柄
B16-WSMC3	莫氏 3 号柄转接 B16 锥柄
WSMC3-2T	莫氏 3 号柄转接 2 锥柄
WSMC2-2T*265	莫氏 3 号柄加长转接莫氏 2 锥孔
WSMC3-3T*265	莫氏 3 号柄加长转接莫氏 2 锥孔
WSMC3-3T*450	莫氏 3 号柄加长转接莫氏 2 锥孔

莫氏锥柄转接杆

型号	说明
WS25	19.05 削平柄加长 25 转接 19.05 削平柄（柄 6.35 孔）
WS25/8	19.05 削平柄加长 25 转接 19.05 削平柄（柄 8 孔）
WS50	19.05 削平柄加长 50 转接 19.05 削平柄（柄 6.35 孔）
WS50/8	19.05 削平柄加长 50 转接 19.05 削平柄（柄 8 孔）
WS75	19.05 削平柄加长 75 转接 19.05 削平柄（柄 6.35 孔）
WS75/8	19.05 削平柄加长 75 转接 19.05 削平柄（柄 8 孔）
WS100	19.05 削平柄加长 100 转接 19.05 削平柄（柄 6.35 孔）
WS100/8	19.05 削平柄加长 100 转接 19.05 削平柄（柄 6.35 孔）
WS QFN	泛音柄加长 25 转接 19.05 削平柄（6.35 孔）
WS NIT	日东柄加长 25 转接 19.05 削平柄（6.35 孔）
WS16-14	19.05 削平柄转接 B16 柄
WS16-14 N	日东柄转接 B16 柄
WS16-14 F	泛音柄转接 B16 柄
WS14	19.05 削平柄转接 1/2 ’*20UNF 外螺旋柄
WS15	1/2’ *20UNF 内螺纹孔转接 1/2 ’*20UNF 外螺旋柄

磁力钻机 (ECO.30)

MAGNETIC DRILLING RIG (ECO.30)

世界上重量最轻的一款磁力钻机，8.9KG!
结构紧凑，功率强劲
专注于取芯钻钻孔
功能简单明快，操作简便
携带轻便，非常适合狭小空间的钻孔作业

The lightest weight magnetic drill in the world, 8.9KG!
The structure is tight and the power is strong.
Focus on drill hole drilling
Simple and quick function, easy to operate
Portable, very suitable for small space drilling operations.



功率	适用电压	220V~240V
	整机额定（含磁座）	950W
	电机额定	900W
	电机额定输出	580W
	主轴	19.05mm Weldon
	行程	85mm

磁座	吸力	> 15000N
	尺寸	160x81x36mm

作业能力	钻削深度	35mm
	取芯钻孔	φ12~30mm
	空载转速	710rpm

整机	净重	8.9Kg
	长（含摇臂）	273mm
	宽（含摇臂）	175mm
	高（含摇臂）	293~383mm

标准交付	毛重	13.2Kg
	长	495mm
	宽	410mm
	高	175mm

标准交付	磁力钻机	1 台	内六角扳手 S4	1 支	安全链带	1 个	冷却液储存瓶	1 个
	摇臂	3 支	内六角扳手 S5	1 支	防护眼镜	1 付	用户手册	1 本
	内六角扳手 S2.5	1 支	水壶紧固螺丝	1 个	防护耳塞	1 付	合格证	1 张
	内六角扳手 S3	1 支	冷却水壶	1 套	手套	1 付	工具箱	1 个

功能描述	取芯钻孔	√	电子调速	-	LCD 功率显示屏	-	自锁夹头	-
	麻花钻孔		机械调速		LED 负载状态指示灯	-	磁座吸力指示灯	-
	铰刀铰孔		过温保护		过载报警系统	-	内冷却系统	√
	锥形扩孔	-	过载保护	-	自动碳刷	√	左右手柄互换	√
	丝锥攻丝	-	软启动	-	液态油浸式齿轮箱	-	自动进给	-
	正反转	-	快速重启	-	扭矩调节	-	底座旋转	-

磁力钻机 (ECO.50/2)

MAGNETIC DRILLING RIG (ECO.50/2)

1600W 的电机功率，钻孔过程稳定
两档机械调速，孔径选择更贴切
过稳保护功能
LED 过载报警系统和快速重启功能，保证电机在最佳状态下工作，钻孔流畅快捷
功率 LED 即时显示系统，直观显示钻机运行状态

1600W motor power, drilling process stability
Two gear speed control, aperture selection more appropriate
Over stability protection function
LED overload alarm system and quick restart function, ensure the motor works in the best condition, drilling smoothly and quickly.
The power LED real-time display system can intuitively display the running state of the drilling rig.



取芯钻



直柄麻花钻



2# 锥柄麻花钻



直柄铰刀



2# 锥柄铰刀



功率	适用电压	220V-240V
	整机额定 (含磁座)	1700W
	电机额定	1600W
	电机额定输出	900W
	主轴	莫氏 3 号
	行程	170mm

磁座	吸力	> 18500N
	尺寸	168x84x49mm

作业能力	钻削深度	50 (75*) mm
	取芯钻孔	φ12-50mm
	麻花钻孔	φ1.5-23mm
	铰刀铰孔	<φ23mm

* 采用加长顶针可实现 75mm 深的钻削能力

整机	净重	13.7Kg
	长 (含摇臂)	320mm
	宽 (含摇臂)	200mm
	高 (含摇臂)	490-660mm

空载转速	I 档	275rpm
	II 档	500rpm

标准交付	毛重	18.8Kg
	长	555mm
	宽	425mm
	高	185mm

标准交付	磁力钻机	1 台	内六角扳手 S5	1 支	安全带	1 个	用户手册	1 本
	摇臂	3 支	楔铁	1 个	防护眼镜	1 付	合格证	1 张
	内六角扳手 S2.5	1 支	水壶紧固件	1 个	防护耳塞	1 付	工具箱	1 个
	内六角扳手 S3	1 支	冷却水壶	1 套	手套	1 付		
	内六角扳手 S4	1 支	工作轴	1 个	冷却液储存瓶	1 个		

功能描述	取芯钻孔	√	电子调速	-	LCD 功率显示屏	√	自锁夹头	√*
	麻花钻孔	√	机械调速	√	LED 负载状态指示灯	√	磁座吸力指示灯	√
	铰刀铰孔	√	过温保护	√	过载报警系统	√	内冷却系统	√
	锥形扩孔	-	过载保护	√	自动碳刷	√	左右手柄互换	√
	丝锥功丝	-	软启动	√	液态油浸式齿轮箱	√	自动进给	-
	正反转	-	快速重启	√	扭矩调节	-	基座旋转	-

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- Cylindrical Ball Nose Carbide Burrs(C) 圆柱型球头硬质合金旋转锉(C)
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- Oval Carbide Burrs(E) 椭圆型硬质合金旋转锉(E)
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- 60° Cone Carbide Burrs(J) 60°圆锥型硬质合金旋转锉(J)
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- 250
- Concave Arc Carbide Burrs(U) 凹弧型硬质合金旋转锉(U)

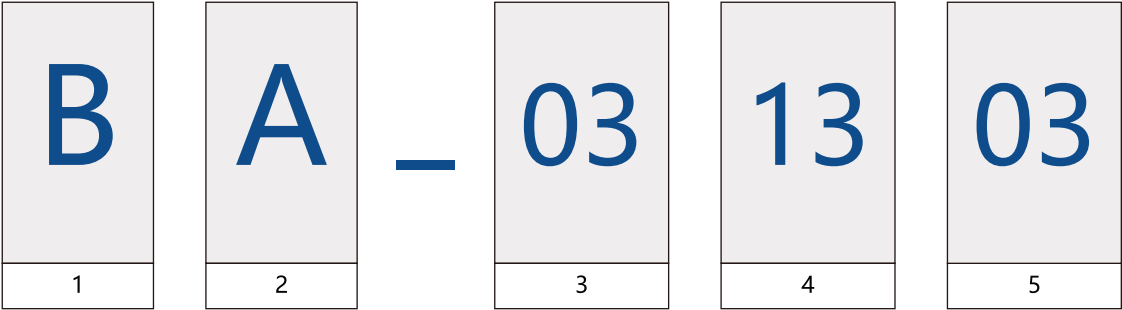


Carbide Burrs

硬质合金旋转锉

旋转锉型号说明

Carbide Burrs Model Description

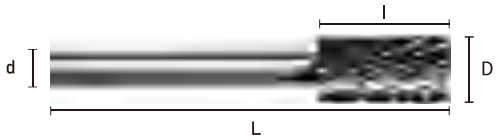


1	2
Tool group 刀具组	Drill type 刀具类型
B Burr (旋转锉)	A 圆柱型/Cylindrical B 圆柱型/Cylindrical C 圆柱型球头/Cylindrical Ball Nose D 圆球型/Ball E 椭圆型/Oval F 弧型圆头/Round Nose Tree G 弧型尖头/Pointed Nose Tree H 火炬型/Flame J 60°圆锥型/60° Cone K 90°圆锥型/90° Cone L 锥型圆头/Rounded Cone M 锥型尖头/Pointed Cone N 倒锥型/Inverted Conical U 凹弧型/Concave Are T 圆弧盘型/Disc Type With Arc Degree Edge Y 90°盘型/Disc Type With 90° Degree Edge

3	4	5
Diameter 刀具刃径	Length 刀具刃长	Shank Diameter 刀具柄径
Special Size Depth 特殊规格可非标定制	Special Size Depth 特殊规格可非标定制	Special Size Depth 特殊规格可非标定制

BURR

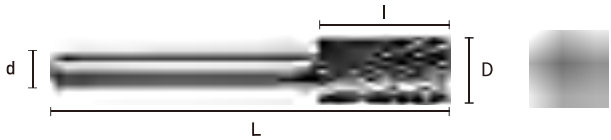
圆柱型硬质合金旋转锉(A) Cylindrical Carbide Burrs(A)



Product Type 产品型号	D 刃径	I 刃长	d 柄径	L 总长
BA-031303	3	13	3	45
BA-041306	4	13	6	53
BA-061606	6	16	6	56
BA-082006	8	20	6	60
BA-102006	10	20	6	60
BA-122506	12	25	6	65
BA-162506	16	25	6	65

BURR

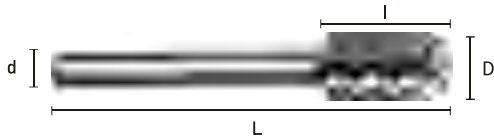
圆柱型硬质合金旋转锉(B) Cylindrical Carbide Burrs(B)



Product Type 产品型号	D 刃径	I 刃长	d 柄径	L 总长
BB-021003	2	10	3	38
BB-031303	3	13	3	45
BB-060703	6	7	3	47
BB-061303	6	13	3	53
BB-041306	4	13	6	53
BB-061606	6	16	6	56
BB-082006	8	20	6	60
BB-102006	10	20	6	60
BB-122506	12	25	6	65
BB-162506	16	25	6	65

BURR

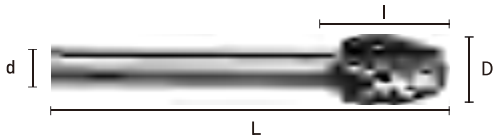
圆柱型硬质合金旋转锉(C) Cylindrical Ball Nose Carbide Burrs(C)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BC-021003	2	10	3	38
BC-031303	3	13	3	45
BC-061303	6	13	3	53
BC-061606	6	16	6	56
BC-082006	8	20	6	60
BC-102006	10	20	6	60
BC-122506	12	25	6	65
BC-162506	16	25	6	65

BURR

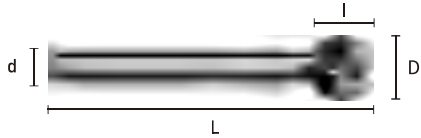
椭圆型硬质合金旋转锉(E) Oval Carbide Burrs(E)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BE-030703	3	7	3	40
BE-061003	6	10	3	50
BE-061006	6	10	6	50
BE-081306	8	13	6	53
BE-101606	10	16	6	56
BE-122006	12	20	6	60
BE-162506	16	25	6	65

BURR

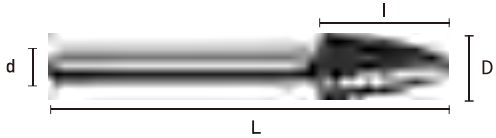
圆球型硬质合金旋转锉(D) Ball Carbide Burrs(D)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BD-030203	3	2	3	38
BD-040303	4	3	3	43
BD-060503	6	5	3	45
BD-040306	4	3	6	43
BD-060506	6	5	6	45
BD-080706	8	7	6	47
BD-100906	10	9	6	49
BD-121006	12	10	6	50
BD-161406	16	14	6	54

BURR

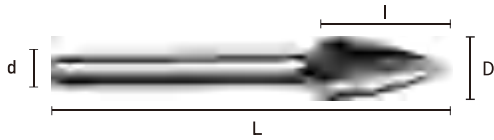
弧型圆头硬质合金旋转锉(F) Round Nose Tree Carbide Burrs(F)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BF-030713	3	7	3	40
BF-031303	3	13	3	45
BF-061303	6	13	3	53
BF-061806	6	18	6	58
BF-102006	10	20	6	60
BF-122506	12	25	6	65
BF-162506	16	25	6	65

BURR

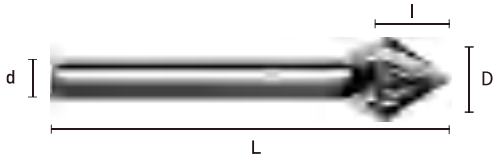
弧型尖头硬质合金旋转锉(G) Pointed Nose Tree Carbide Burrs(G)



Product Type 产品型号	D 刃径	I 刃长	d 柄径	L 总长
BG-03703	3	7	3	38
BG-031303	3	13	3	45
BG-061303	6	13	3	53
BG-061806	6	18	6	58
BG-102006	10	20	6	60
BG-122506	12	25	6	65
BG-162506	16	25	6	65

BURR

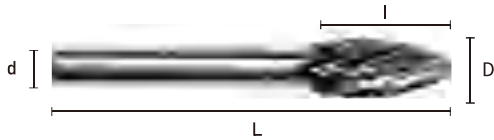
60°圆锥型硬质合金旋转锉(J) 60° Cone Carbide Burrs(J)



Product Type 产品型号	D 刃径	I 刃长	d 柄径	L 总长
BJ-060506	6	5	6	50
BJ-080706	8	7	6	50
BJ-100906	10	9	6	53
BJ-121006	12	10	6	55
BJ-161406	16	14	6	56

BURR

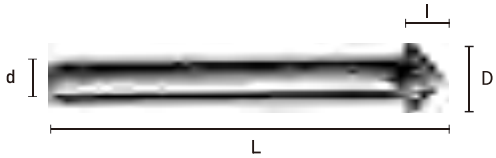
火炬型硬质合金旋转锉(H) Flame Carbide Burrs(H)



Product Type 产品型号	D 刃径	I 刃长	d 柄径	L 总长
BH-030703	3	7	3	38
BH-061303	6	13	3	45
BH-030706	3	7	6	47
BH-061806	6	18	6	58
BH-082006	8	20	6	60
BH-102506	10	25	6	65
BH-123206	12	32	6	72
BH-163606	16	36	6	76

BURR

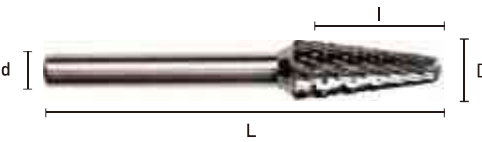
90°圆锥型硬质合金旋转锉(K) 90° Cone Carbide Burrs(K)



Product Type 产品型号	D 刃径	I 刃长	d 柄径	L 总长
BK-060306	6	3	6	50
BK-080406	8	4	6	50
BK-100506	10	5	6	50
BK-120606	12	6	6	51
BK-160806	16	8	6	53

BURR

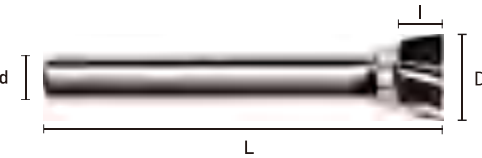
锥型圆头硬质合金旋转锉(L) Rounded Cone Carbide Burrs(L)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BL-061306	6	16	6	56
BL-082206	8	22	6	62
BL-102506	10	25	6	65
BL-122806	12	28	6	68
BL-163306	16	33	6	73

BURR

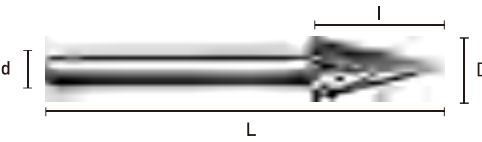
倒锥型硬质合金旋转锉(N) Inverted Conical Carbide Burrs(N)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BN-030703	3	7	3	40
BN-060703	6	7	3	47
BN-121306	12	13	6	53
BN-161606	16	16	6	56
BN-100506	10	5	6	45
BN-120206	12	5	6	45
BN-160606	16	6	6	46

BURR

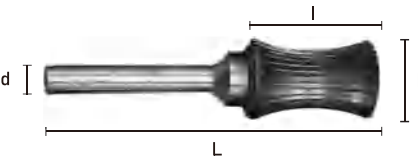
锥型尖头硬质合金旋转锉(M) Pointed Cone Carbide Burrs(M)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BM-031103	3	11	3	40
BM-061303	6	13	3	53
BM-061806	6	18	6	58
BM-081706	8	17	6	57
BM-102006	10	20	6	60
BM-122506	12	25	6	65
BM-162506	16	25	6	65

BURR

凹弧型硬质合金旋转锉(U) Concave Arc Carbide Burrs(U)



Product Type 产品型号	D 刃径	l 刃长	d 柄径	L 总长
BU-030703	3	7	3	38
BU-030706	3	7	6	55
BU-061006	6	10	6	65
BU-081506	8	15	6	65
BU-102006	10	20	6	65
BU-122506	12	25	6	65
BU-162506	16	25	6	65

枪钻系列

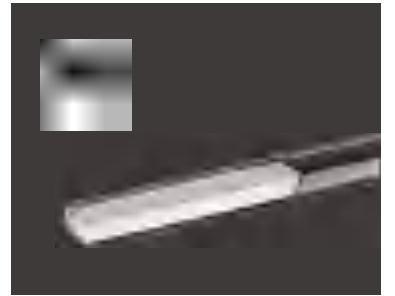
GUN DRILL SERIES



硬质合金枪钻也叫深孔钻，
主要用于加工深度，在钻削铸铁、铜、铝合金、合金钢
等材料时，能一次完成钻孔、镗孔、铰孔加工，
可以减少使用刀具的种类，降低生产成本，缩短生产周期，提高经济效益。
目前在造船、汽车、发动机、机车、化工机械、油嘴油泵、矿山机械、液压件及模具制造等行业应用广泛。

Cemented carbide gun drills are also called deep hole drills,
which are mainly used for processing depth.
When drilling cast iron, copper, aluminum alloy, alloy steel and other materials,
it can complete drilling, boring, and reaming at one time, which can reduce the use of tools.
The types of products can reduce production costs, shorten production cycles, and improve economic benefits.
At present, it is widely used in shipbuilding, automobiles, engines, locomotives, chemical machinery,
nozzle oil pumps, mining machinery, hydraulic parts and mold manufacturing industries.

01 单沟枪钻



- ▶ 枪钻直径范围:1.98mm—38.10mm(0.078”—1.500”);
- ▶ 长度不超过:3000mm;
- ▶ 直线度公差0.0254mm/25.4mm(0.001”/inch);
同轴度公差0.0254mm/25.4mm(0.001”/inch);
孔直径公差0.0127mm(±0.0005”);
- ▶ 枪钻工作时, 高压冷却液强制对切削刃润滑和排屑, 一次钻削达到
精度, 无需退刀排屑, 即可连续生产;
- ▶ 由于钻尖不过轴心, 必须使用钻套或引导孔引导定位, 一旦切入, 即可自导向;
- ▶ 我们会根据客户需求添加对应的涂层以提高刀具整体性能。

02 双沟枪钻



- ▶ 双沟枪钻有两个对称的切削刃, 与单孔钻有着相同的切削液循环系统, 切削液由刀头上的两个进油孔供入切削刃部, 切削液和切削的混合物由刀杆外部的排屑槽排出;
- ▶ 枪钻直径范围:4.76mm—25.40mm(0.1875”—1”);
- ▶ 长度不超过1828mm (72”);
- ▶ 双槽双孔的结构, 使钻尖形成180°对称槽型, 刚性好, 切削负载比单沟减小一半, 可成倍提高进给量;
- ▶ 排屑槽浅, 通常用于加工铸铁和铸铝等切屑较小的场合。

03 双喷枪钻



- ▶ 冷却液直接喷在前刀面上, 适用于加工交叉孔
- ▶ 枪钻直径范围:5.08mm—38.1mm(0.2000”—1.5”);
- ▶ 独特钻尖冷却孔设计, 润滑排削条件优异;
- ▶ 用于交叉孔、不规则表面孔钻削;
- ▶ 枪钻寿命成倍提高, 不会出现早起磨损;
- ▶ 达到其他枪钻加工时同样的直线度、同轴度、孔直径尺寸精度

04 整体硬质合金枪钻



- ▶ 钻尖和刀体为整体硬质合金, 减少了头部与钻杆之间的焊接, 不仅保证冷却液流动通畅, 而且整体强度较焊接枪钻更高。同时由于具有较高的刚性和较低的扭曲振动而使得刀具寿命得到延长;
- ▶ 用于加工直径非常小的深孔;
- ▶ 枪钻直径范围:1.4mm—6.7mm(0.055”—0.26”), 长度不超过305mm;
- ▶ 比焊接式单刃枪钻的切削速度更高;
- ▶ 用于交叉孔、不规则表面孔钻削;
- ▶ 我们会根据客户需求添加对应的涂层以提高刀具整体性能。

Wintend



整体方案

INTEGRAL SOLUTIONS

元韬精密拥有强大的技术力量和供应链体系，可以为客户提供整体方案的服务，包括工艺设计与优化、夹具、刀具、刀柄夹持系统等内容。刀具涵盖硬质合金整体刀具、超硬刀具及可转位刀具等全部种类。客户只要提供产品样品、图纸、机床型号、接口形式等，即可得到省心而称心的“交钥匙”配套服务。

Wintend has strong technical force and supply chain system to provide customers with integral solutions, including process design and optimization, fixtures, tools and holder clamping systems. Our products cover all types: solid carbide tools, superhard tools and indexable tools. As long as providing product samples, drawings, machine types, interface forms, etc., you can get satisfying results.



元韬精密 整体方案解决



车削
TURNING



铣削
MILLING



孔加工
HOLE PROCESS



镗刀
Boring cutter



刀柄
HOLDERS



非标定制
Non-standard
customization



工艺——加工方案的设计和优化，用最少的工序和刀具保证零件的精度及加工效率。

Proces is the design and optimization of processing solutions of customers' products, ensuring the accuracy and machining efficiency of the parts using the least amount of process and tools.

夹具——我们与夹具供应商保持紧密合作，可提供各类先进的方案和夹具；

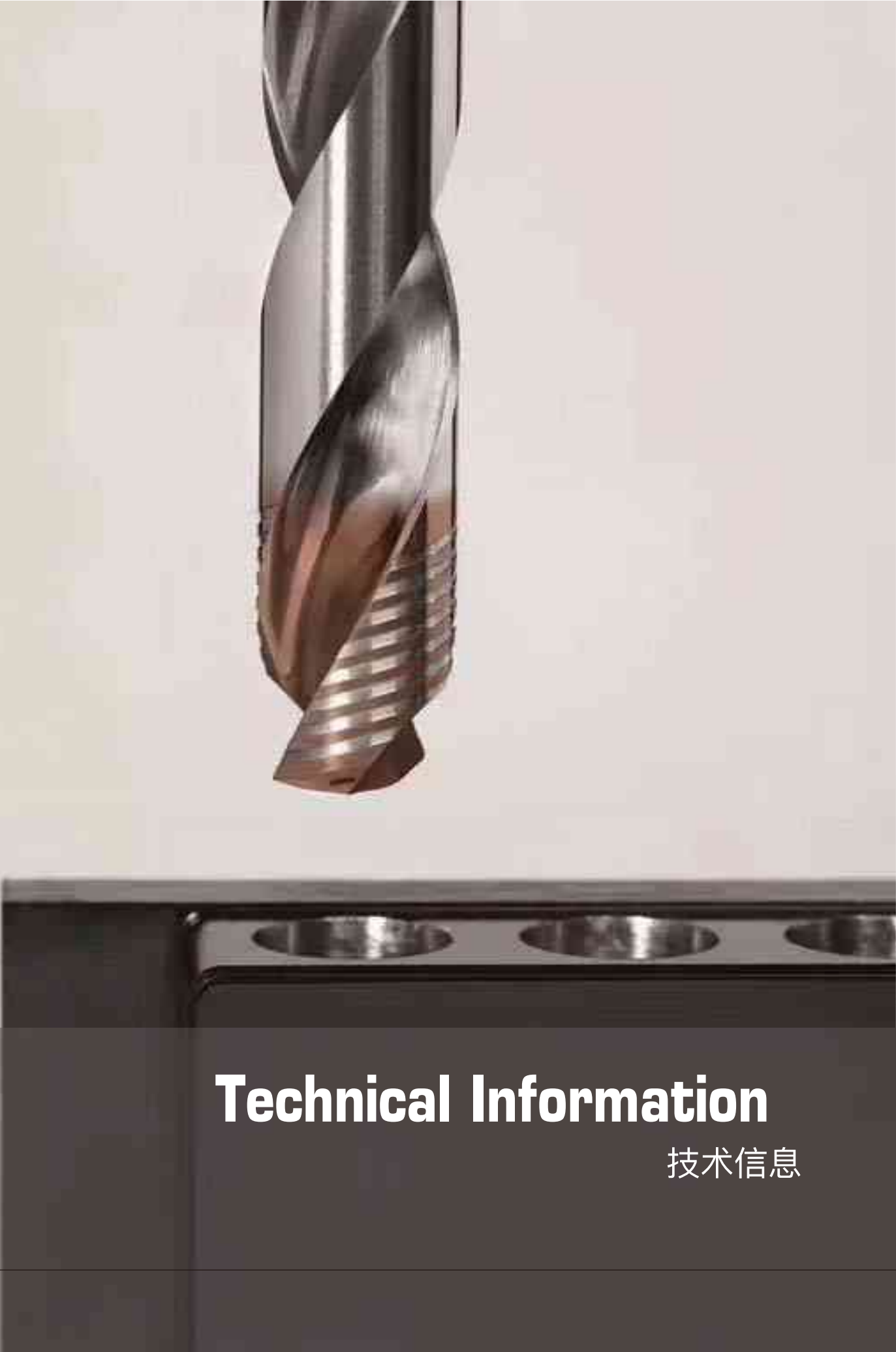
Fixture-We maintain the close cooperation with fixture suppliers, so we will render all kinds of advanced solutions and fixtures;

刀柄——各类各类机床接口和各种刀柄(含夹头)类型均能提供。

Holder-We can provide various types of machine interface forms and holders (including chucks).

刀具——整体硬质合金刀具、PCD刀具、金属陶瓷刀具、焊接刀具、可换式刀具及可转位刀具我们能全方位的提供。

Cutting tool-We can provide a full range of solid carbide tools, PCD tools, metal ceramic tools, welding tools, replaceable tools and indexable tools.

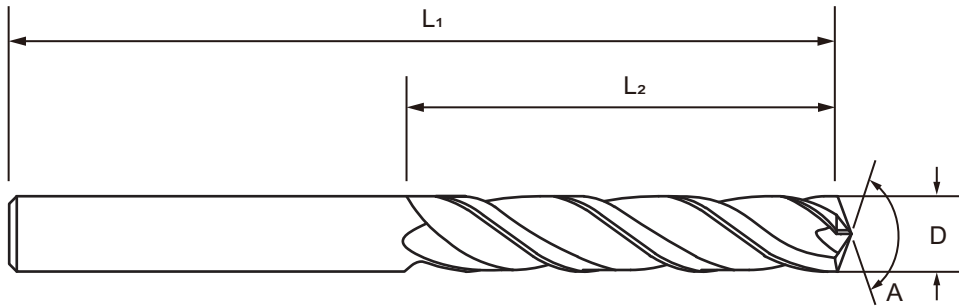


Technical Information

技术信息

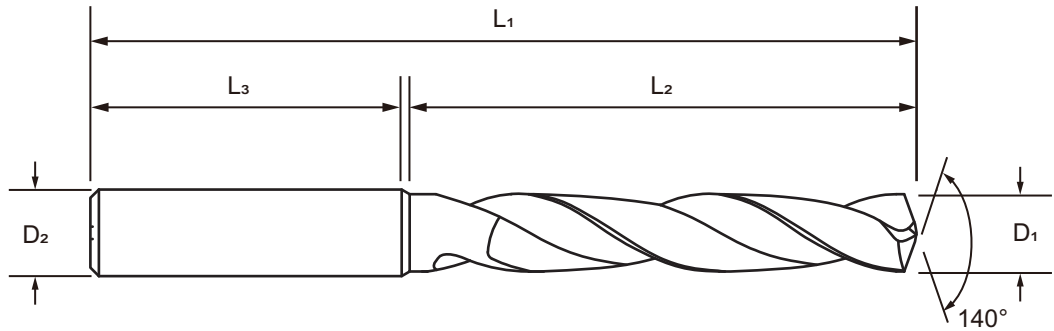
Wintend Application Classifieds					
ISO Material	Part no	Description	Hardness HB	Hardness HRC	tensile strength RM(MPa)
P Steel	P1	Soft carbon steel high-purity ferritic steel	< 135		< 530
	P2	free cutting steel	120-210		530-600
	P3	structural steel Plain low carbon steel (C<0.5%)	135-165		600-850
	P4	High carbon steel (C>0.5%) Common low alloy steel Ferrite and Martensitic stainless steels	165-210		850-1400
	P5	Common tool steel High Hardness quenched and tempered steel Martensitic stainless steels	210-270	< 35	600-900
	P6	Hard processing tool steel High hardness alloy steel Martensitic stainless steels	270-360	35-48	900-1350
H High hardness material	H1	Hardening Material		44-48	
	H2	Hardening Material		48-55	
	H3	Hardening Material		56-60	
	H4	Hardening Material		> 60	
M Stainless steel	M1	austenitic stainless steel	130-200		< 600
	M2	High strength austenitic stainless steel and Cast Stainless Steel	150-230	< 25	600-800
	M3	Duplex Stainless Steel	135-275	< 30	> 800
K cast iron	K1	grey cast iron	120-290	< 32	120-500
	K2	vermicular graphite cast iron nodular cast iron	130-260	< 28	< 600
	K3	High strength ductile iron and Austempering ductile iron	180-350	< 43	> 600
N Copper Aluminum Alloy	N1	hydronalium			
	N2	Low silicon aluminum alloy and manganese alloy(Si <12%)			
	N3	high silicon aluminum alloy and manganese alloy			
	N4	Copper-based materials , Brass Based Materials , Zinc based materials			
	N5	Nylon , plastic , rubber , resin , glass fibre			
	N6	Carbon materials , graphite composite , CFRP material			
	N7	MMC			
S Heat Resistance Alloy	S1	Iron-base superalloy	160-260	25-48	500-1200
	S2	Cobaltbase superalloy	250-450	25-48	1000-1450
	S3	Nickel-base Superalloy	160-450	< 48	600-1700
	S4	Titanium and Titanium alloy	300-400	33-48	900-1600

◆ 三刃钻定制 THREE FLUTE DRILL



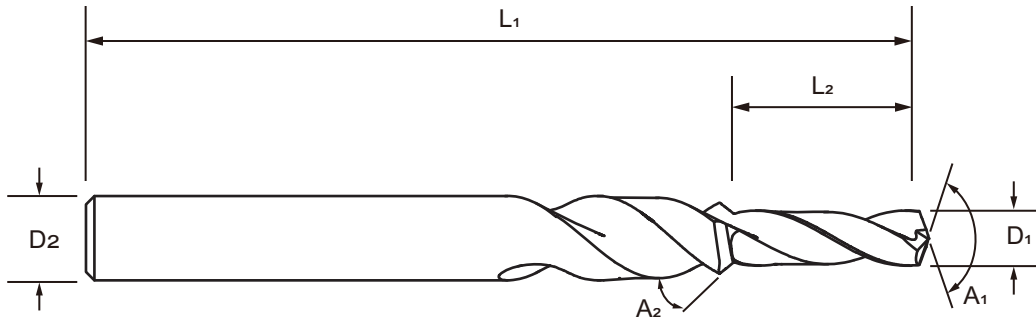
TYPE:	 WINTEND 元 韬 精 密	D	L ₁
DATE:		A	L ₂
COATING:			
MATERIAL BEING CUT:			
NO.: D-1			

◆ 深孔钻定制 DEEP HOLE DRILL



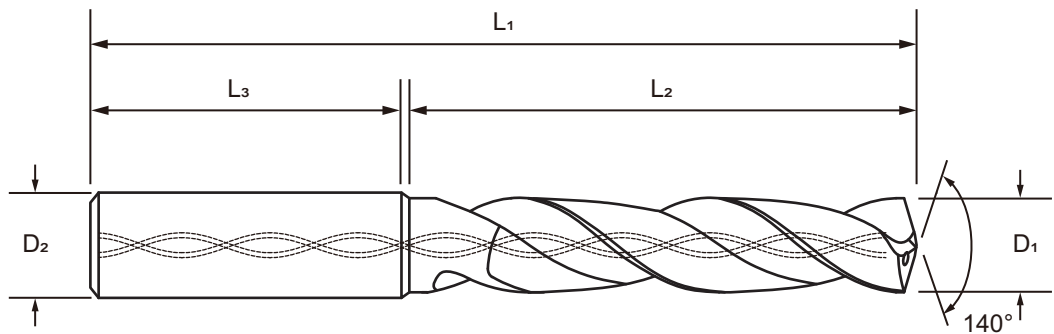
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DATE:		L ₂	D ₂
COATING:			
MATERIAL BEING CUT:		NO.: D-3	L ₃

◆ 台阶钻定制 STEP DRILL



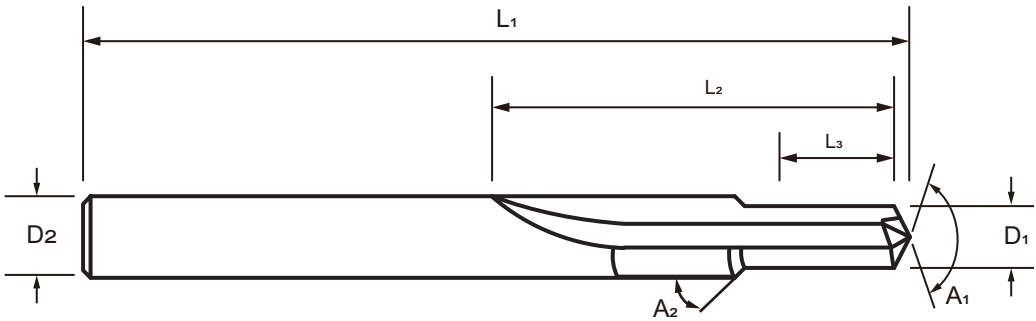
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DATE:		D ₂	L ₂
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MATERIAL BEING CUT:		NO.: D-2	A ₁

◆ 内冷深孔钻定制 DEEP HOLE DRILL WITH COOLANT



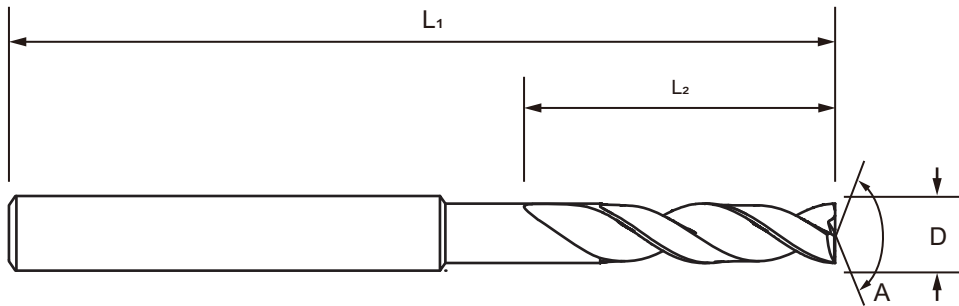
TYPE:	 WINTEND 元 韬 精 密	L ₁	D ₁
DATE:		L ₂	D ₂
COATING:			
MATERIAL BEING CUT:		NO.: D-4	L ₃

◆ 直槽台阶钻定制 STRAIGHT FLUTE STEP DRILL



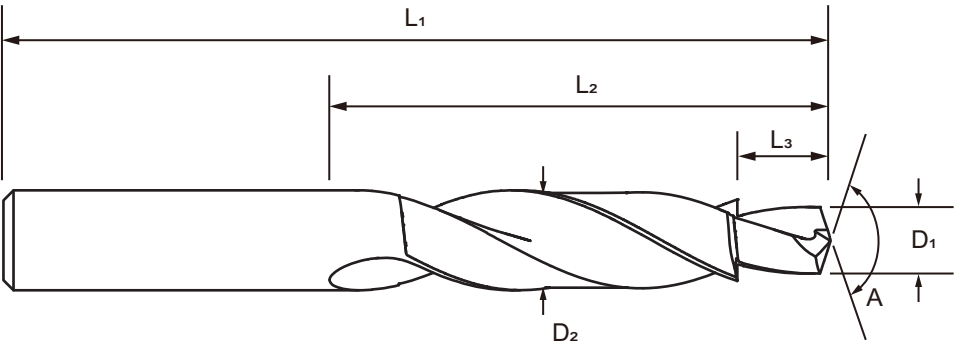
TYPE:	 WINTEND 元 韬 精 密	D ₁	L ₁
DATE:		D ₂	L ₂
COATING:		A ₁	L ₃
MATERIAL BEING CUT:		NO.: D-5	A ₂

◆ 平底钻定制 FLAT DRILL



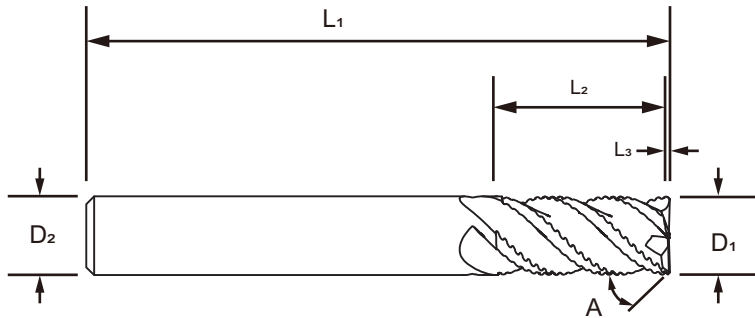
TYPE:	 WINTEND 元 韬 精 密	D	L ₁
DATE:			
COATING:		A	L ₂
MATERIAL BEING CUT:			

◆ 钻铣刀定制 DRILL COUNTERBORE



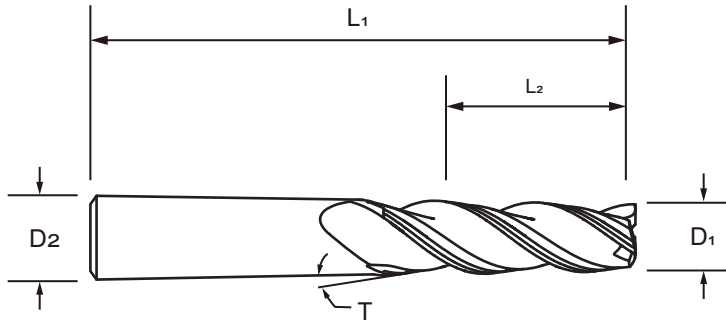
TYPE:	 WINTEND 元 韬 精 密	D ₁	L ₁
DATE:		D ₂	L ₂
COATING:			
MATERIAL BEING CUT:		NO.: M-1	A

◆ 波纹铣刀定制 ROUGHING MILL



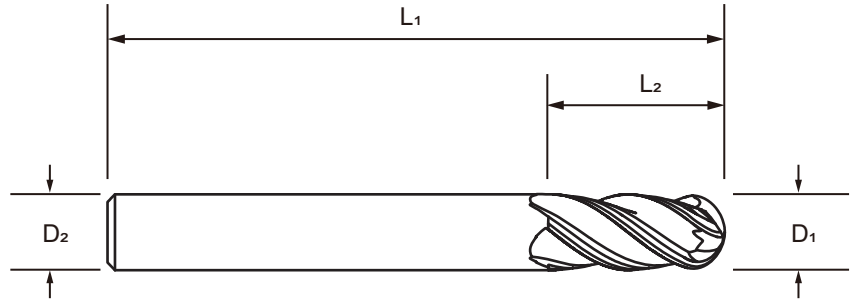
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DATE:		D ₂	L ₂
COATING:		A	L ₃
MATERIAL BEING CUT:			

◆ 锥度铣刀定制 TAPPER MILL



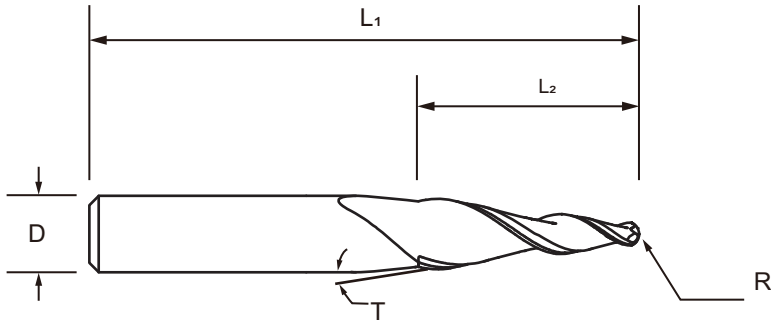
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DATE:		D2	L2
COATING:		A1	A2
MATERIAL BEING CUT:		NO.: M-4	

◆ 球头铣刀定制 BALL NOSE MILL



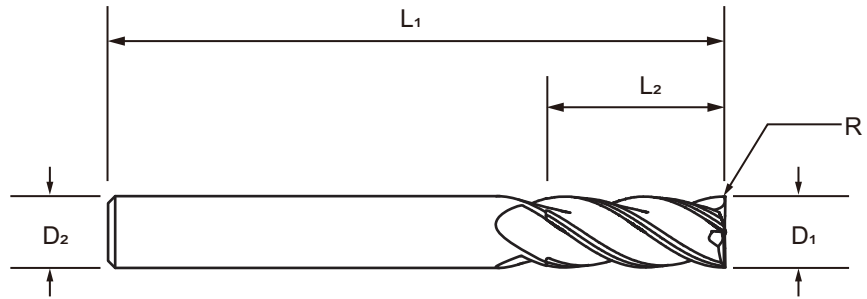
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DATE:		D2	L2
COATING:			
MATERIAL BEING CUT:		NO.: M-6	

◆ 锥度球头铣刀定制 TAPPER BALL NOSE END MILL



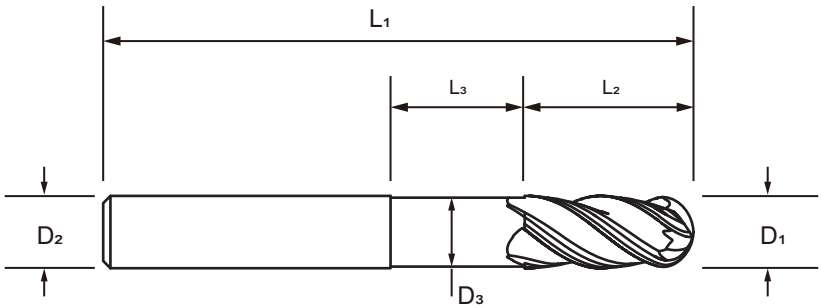
TYPE:		L1	D
DATE:		L2	T
COATING:		R	
MATERIAL BEING CUT:		NO.: M-5	

◆ 平头/圆弧铣刀定制 END MILL



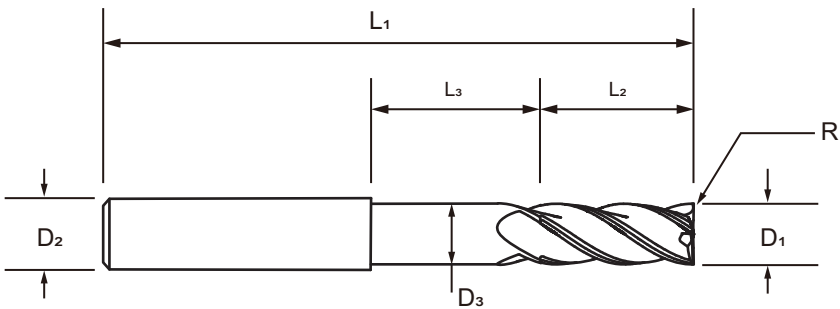
TYPE:		D1	L1
DATE:		D2	L2
COATING:		R	
MATERIAL BEING CUT:		NO.: M-7	

◆ 深沟球头铣刀定制 CORNER RADIUS MILL



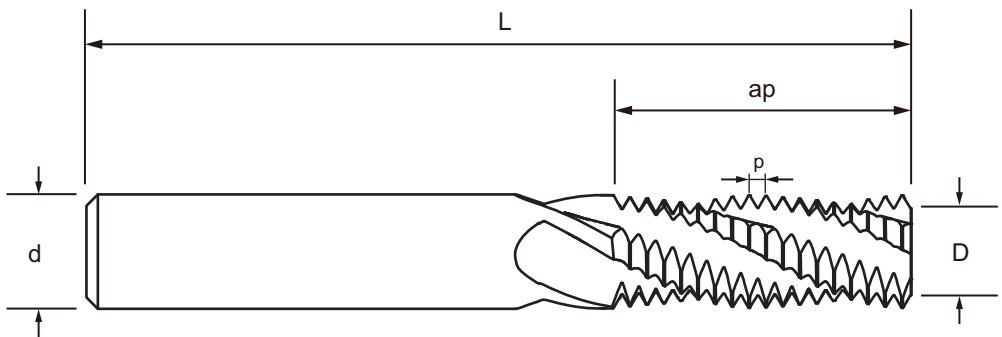
TYPE:	 WINTEND 元 韬 精 密	D ₁	L ₁
DATE:		D ₂	L ₂
COATING:		D ₃	L ₃
MATERIAL BEING CUT:		NO.: M-8	

◆ 深沟平头/圆弧铣刀定制 END MILL WITH NECK



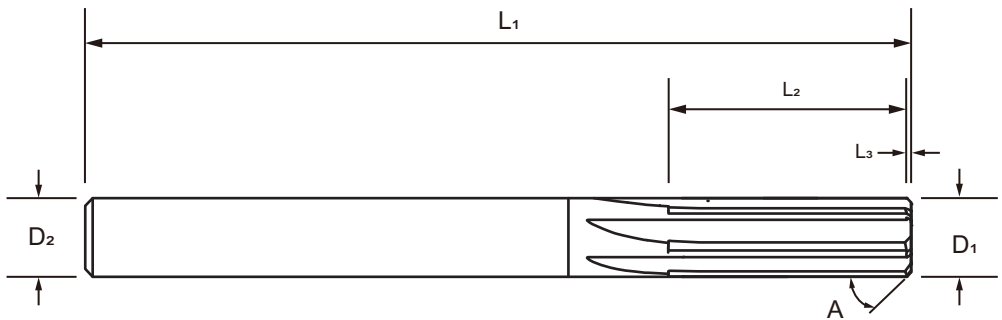
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DATE:		D ₂	L ₂
COATING:		D ₃	L ₃
MATERIAL BEING CUT:		R	

◆ 螺纹铣刀定制 TREAD MILL

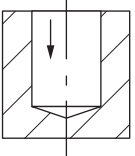
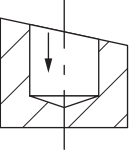
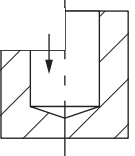
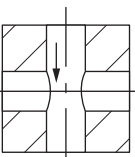
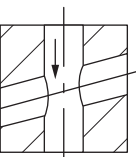
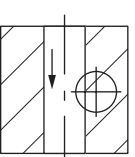
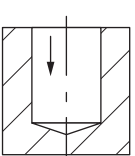
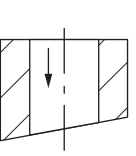
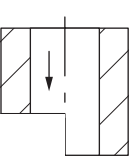


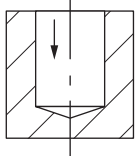
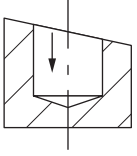
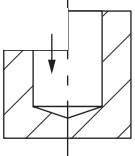
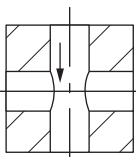
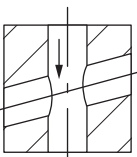
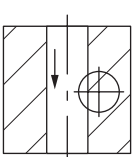
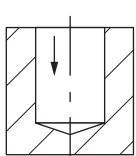
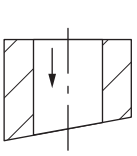
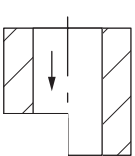
TYPE:	 WINTEND 元 韬 精 密	D	ap
DATE:		d	L
COATING:		p	
MATERIAL BEING CUT:		NO.: M-10	

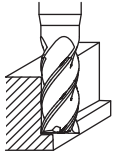
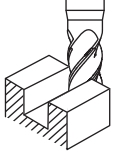
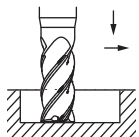
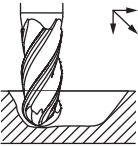
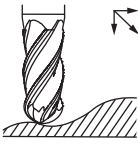
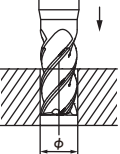
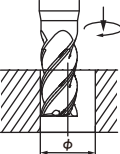
◆ 铰刀定制 REAMER

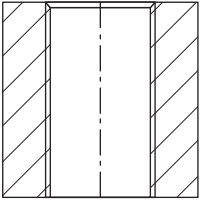
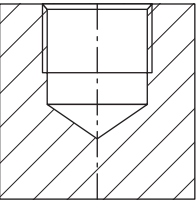
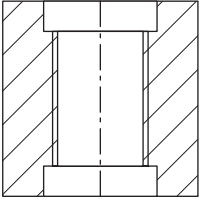
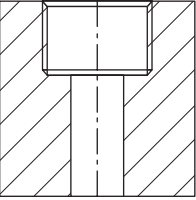


TYPE:	 WINTEND 元 韬 精 密	D ₁	L ₁
DATE:		D ₂	L ₂
COATING:		A	L ₃
MATERIAL BEING CUT:		NO.: R-1	

元韬硬质合金钻头信息调查表 Information questionnaire of Yuan Tao cemented Carbide Drill				编号/NO.:		
客户名称: Customer name:		孔直径: Hole diameter				
业务员: Salesman		孔公差: Hole tolerance				
日期: Date		孔深: Hole depth				
刀具规格: Tool specification		粗糙度: Roughness				
原刀具供应商: Original tool supplier		通孔/盲孔: Through /blind hole	☐ 通孔: Through hole	☐ 盲孔: Blind hole		
工件名称: Workpiece name		机床型号: Machine tool model				
工件材料: Workpiece material		冷却方式: Cooling mode	☐ 外冷: Without cooling	☐ 内冷: With cooling		
材料硬度: Material hardness		冷却介质: Cooling medium	☐ 乳化液: Oral emulsion	☐ 油:Oil	☐ MQL	
抗拉强度: Tensile strength			☐ 压缩空气: Mouth compressed air	☐ 干切: Dry cutting		
铁屑形状: Iron chip shape	☐ 长屑: Long mouth chip	☐ 短屑: Short mouth chip	加工方式: Processing mode	☐ 水平: Mouth level	☐ 垂直: Mouth vertica	
入钻型式: Drilling type	☐ 平齐面: Flat plane		☐ 斜面: Oblique plane		☐ 断续面: Intermittent surface	
孔内型式: Hole type	☐ 正交面: Orthogonal surface		☐ 斜角面: Oblique plane		☐ 交叉相贯: Cross intersecting	
出钻型式: Drill out type	☐ 平齐面: Flat plane		☐ 斜面: Oblique plane		☐ 断续面: Intermittent surface	
加工示意图: Processing schematic diagram			主轴转速s: Spindle speed s:			
			进给速度F: Feed speed F:			
			单次进给Q值: Single feed Q value			
			每件孔数: Number of holes per piece			
			寿命: Life expectancy			
客户需求: Customer demand						
备注: Remarks						

元韬硬质合金铰刀信息调查表 Information questionnaire of Yuan Tao cemented Carbide Reamer				编号/NO.:		
客户名称: Customer name:		孔直径: Hole diameter				
业务员: Salesman		孔公差: Hole tolerance				
日期: Date		孔深: Hole depth				
刀具规格: Tool specification		粗糙度: Roughness				
原刀具供应商: Original tool supplier		通孔/盲孔: Through /blind hole	☐ 通孔: Through hole	☐ 盲孔: Blind hole		
工件名称: Workpiece name		机床型号: Machine tool model				
工件材料: Workpiece material		冷却方式: Cooling mode	☐ 外冷: Without cooling	☐ 内冷: With cooling		
材料硬度: Material hardness		冷却介质: Cooling medium	☐ 乳化液: Oral emulsion	☐ 油:Oil	☐ MQL	
抗拉强度: Tensile strength			☐ 压缩空气: Mouth compressed air	☐ 干切: Dry cutting		
铁屑形状: Iron chip shape	☐ 长屑: Long mouth chip	☐ 短屑: Short mouth chip	加工方式: Processing mode	☐ 水平: Mouth level	☐ 垂直: Mouth vertica	
入钻型式: Drilling type	☐ 平齐面: Flat plane		☐ 斜面: Oblique plane		☐ 断续面: Intermittent surface	
孔内型式: Hole type	☐ 正交面: Orthogonal surface		☐ 斜角面: Oblique plane		☐ 交叉相贯: Cross intersecting	
出钻型式: Drill out type	☐ 平齐面: Flat plane		☐ 斜面: Oblique plane		☐ 断续面: Intermittent surface	
加工示意图: Processing schematic diagram			主轴转速s: Spindle speed s:			
			进给速度F: Feed speed F:			
			单次进给Q值: Single feed Q value			
			每件孔数: Number of holes per piece			
			寿命: Life expectancy			
客户需求: Customer demand						
备注: Remarks						

元韬硬质合金铣刀信息调查表 Information questionnaire of Yuan Tao cemented Carbide Mill				编号/NO.:		
客户名称: Customer name:		铣刀形式: Mill type	☐ 平头 Flat head ☐ 圆鼻 Round nose ☐ 球头 Ball head ☐ 其他 Others			
业务员: Salesman		是否避空: Whether to avoid empty				
日期: Date		备注: Remarks				
刀具规格: Tool specifcation						
原刀具供应商: Original tool supplier						
工件名称: Workpiece name		机床型号: Machine tool model				
工件材料: Workpiece material		冷却方式: Cooling mode	☐ 外冷: Without cooling ☐ 内冷: With cooling			
材料硬度: Material hardness		冷却介质: Cooling medium	☐ 乳化液: Oral emulsion ☐ 油:Oil ☐ MQL			
抗拉强度: Tensile strength			☐ 压缩空气: Mouth compressed air ☐ 干切: Dry cutting			
铁屑形状: Iron chip shape	☐ 长屑: Long mouth chip ☐ 短屑: Short mouth chip		加工方式: Processing mode	☐ 水平: Mouth level ☐ 垂直: Mouth vertica		
入钻型式: Drilling type	☐ 侧铣: Side milling		☐ 通槽铣: Slot milling		☐ 铣键槽: Milling keyway	
	☐ 铣型腔: Milling cavity		☐ 仿形铣: Copying milling			
	☐ 出钻型式: Drill out type	☐ 插铣: Insert milling		☐ 螺旋插铣: Spiral Insert milling		
加工示意图: Processing schematic diagram			主轴转速S: Spindle speed S:			
			进给速度F: Feed speed F:			
			纵向切深ap: Longitudinal depth ap:			
			径向切宽ae: Radial tangent width ae:			
			步距: Step Distance			
			寿命 (小时) : Life expectancy (H):			
			寿命 (件数): Life span (PCS)			
客户需求: Customer demand						
备注: Remarks						

元韬丝锥信息调查表 Information questionnaire of Yuan Tao cemented Tap				编号/NO.:		
客户名称: Customer name:		丝锥形式: Tap type	☐ 螺旋 Spiral ☐ 直槽 Straight ☐ 螺尖 Point ☐ 其他 Others			
业务员: Salesman		丝锥材质: Tap material	☐ HSS ☐ HSSE ☐ PM ☐ CARBIDE			
日期: Date		孔深: Hole depth				
刀具规格: Tool specification		底孔直径: Bottom hole diameter				
原刀具供应商: Original tool supplier		通孔/盲孔: Through /blind hole	☐ 通孔: Through hole ☐ 盲孔: Blind hole			
工件名称: Workpiece name		机床型号: Machine tool model				
工件材料: Workpiece material		冷却方式: Cooling mode	☐ 外冷: Without cooling ☐ 内冷: With cooling			
材料硬度: Material hardness		冷却介质: Cooling medium	☐ 乳化液: Oral emulsion ☐ 油:Oil ☐ MQL			
抗拉强度: Tensile strength			☐ 压缩空气: Mouth compressed air ☐ 干切: Dry cutting			
铁屑形状: Iron chip shape	☐ 长屑: Long mouth chip ☐ 短屑: Short mouth chip		加工方式: Processing mode	☐ 水平: Mouth level ☐ 垂直: Mouth vertica		
孔的型式: Hole type	☐ 通孔 Through hole  ☐ 盲 Blind  ☐ 沉孔 Sinking hole  ☐ 阶梯 Ladder 					
	加工示意图: Processing schematic diagram			竞争对手产品: Competitor Products		
客户需求: Customer demand						
备注: Remarks						