

钻头

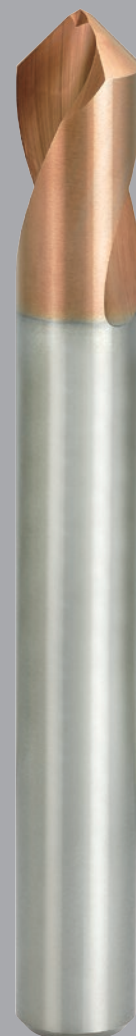
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P136 DCSSS	P057 MMS	P135 VCHSM
P012 DLE	P076 MNS	P134 VCSSS
P192 EPSS	P050 MQS	P170 VSD
P174 GSD	P097 MSE	P172 VTDS
P193 GTD	P096 MSP	
P205 GTTD	P042 MVE	
P186 GWSL	P020 MVS	
P184 GWSS	P230 MVX	
P204 GWTS	P100 MWS	
P247 JFS	P122 MZE	
P182 KSD	P176 SD	
P198 KTD	P178 SD (1/100直柄)	
P189 LSD	P179 SDLS	
P200 LTD	P142 SEPDM	
P087 MAE	P140 SEPDS	
P083 MAS	P210 STAW	
P091 MCA	P241 TAF	
P095 MCAH	P219 TAW	
P090 MCC	P194 TD	
P094 MCCH	P206 TTD	
P092 MCT	P153 VAPDJ	
P093 MCW	P149 VAPDM	
P015 MFE	P161 VAPDMSUS	



型号的表示

整体钻头型号识别

MV	S	0300	X	S
用途	冷却方式	直径	L/D	刀柄直径
MV : 通用 MF : 镗孔加工用 MG : 小径深孔加工用 MS : 用于加工极小孔径 MN : 铝合金加工用 MH : 模具用 MM : 不锈钢加工用 MC : 用于加工复合材料 DL : 用于加工倒角、定心加工 MA : 用于加工铝合金铸铁高精度孔	E : 外冷却 S : 内冷却	例 0050 → $\phi 0.5$ 0300 → $\phi 3.0$	S : 2D用 M : 3D用 L : 5D用 (超级抛光钻头为6D用) X : 12D用 X**D : **D用	A : 柄径与钻头直径相同 B : 刀柄直径为整数 S*** : 柄径

* 除上述表示外还有例外的情况。

VC	S	S	S	D0300	***
钻头名称	用途	刀柄形状	槽长	直径	其它
VC : MIRACLE涂层钻头 DC : 金刚石涂层钻头 VA : VIOLET涂层高精度钻头 (高级高合金高速钢) SE : SE高精度钻头(高速钢) V : VIOLET涂层钻头 G : TiN涂层钻头(高速钢) E : 钴高速钢钻头 无 : 高速钢	SD : 通用直柄钻头 TD : 通用锥柄钻头 S : 钢用 H : 高硬度材料加工用 PD : 高精度钻削用 U : 不锈钢钻削用 T : 钢筋钻削用 W : 深孔钻削用	S : 直柄 T : 锥柄 3K : 三角柄 6K : 六角柄	S : 短 M : 中 J : 较长 L : 长	例 D0050 → $\phi 0.5$ D0300 → $\phi 3.0$	A*** : 全长 S** : 柄径 M* : 锥度大小

* 除上述表示外还有例外的情况。

符号识别方法

材料

 **极超微粒硬质合金**
刃部材料使用极超微粒硬质合金。

 **高级高合金高速钢**
刃部材料使用高级高合金高速钢。

 **钴高速钢**
刃部材料使用钴高速钢。

 **D-STH钴高速钢**
切削刃采用钴高速钢，进行D-STH处理。

 **高速钢**
刃部材料使用高速钢。

刃口修磨

 **X形修磨**
钻头顶端X形修磨。

 **Z形修磨**
钻头顶端Z形修磨。

 **XR形修磨**
钻头顶端XR形修磨。

 **C形修磨**
钻头顶端C形修磨。

 **S形修磨**
钻头顶端S形修磨。

 **N形修磨**
钻头顶端N形修磨。

公差

 **钻头直径公差**

 **刀柄直径公差**

带冷却孔

 **带冷却孔**

涂层

 **金刚石涂层**
膜结合性超群的、性能高的金刚石涂层。

 **VIOLET涂层**
比TiN涂层寿命高2-3倍。

 **TiN涂层**
比无涂层寿命高2-3倍。

 **层合PVD涂层**
通过加工小直径孔的低速、低进给条件大幅度提高了耐磨损性。

 **层合PVD涂层**
采用软钢、碳钢、合金钢、不锈钢、铸铁类、铝合金等广泛的被切削材料，发挥良好的耐磨损性。

 **超多层PVD涂层**
采用超多层PVD涂层材种，与以前相比，将实现两倍以上的使用寿命。

 **PVD涂层**
这是最适于不锈钢的超微粒超硬合金与耐热性、润滑性良好的PVD涂层。

 **MIRACLE涂层**
独自开发的(AI,Ti)N涂层。可干式加工。

 **CVD金刚石涂层**
通过独自的多层微粒钻石结晶控制技术，大幅提高耐磨损性和平滑度。

角度

 **顶角**
钻头主切削刃构成的角度(顶角)。
* 显示图标是一个例子。

P

钻头

钻头选定标准表 硬质合金

整体钻头

用途	型号 (系列名称)	适用直径	钻削孔深 (L/D)	冷却方式	涂层	工件材料						钻头外形	页		
						P	M	K	N	S	H				
						钢	不锈钢	铸铁	有色金属	耐热合金	高硬度钢				
小直径孔加工用	MVS...X02	φ1.0 —φ2.9	2	内部									P020		
	MVS...X07		7	内部											
	MVS...X12		12	内部											
	MVS...X20		20	内部											
	MVS...X25		25	内部											
	MVS...X30		30	内部											
通用	MVE...X02	φ3.0 —φ20.0	2	外部									P042		
	MVE...X03		3	外部											
	MVS...X02	φ3.0 —φ20.0	2	内部									P024		
	MVS...X03		3	内部											
	MVS...X05	5	内部												
	MVS...X08	8	内部												
	MVS...X10	φ3.0 —φ14.0	10	内部											
	MVS...X15		15	内部											
	MVS...X20		20	内部											
	MVS...X25	φ3.0 —φ12.0	25	内部											
	MVS...X30		30	内部											
	MVS...X35		35	内部											
	MVS...X40		40	内部											

P

钻头

用途	型号 (系列名称)	适用直径	钻削孔深 (L/D)	冷却方式	涂层	工件材料						钻头外形	页
						P	M	K	N	S	H		
						钢	不锈钢	铸铁	有色金属	耐热合金	高硬度钢		
不锈钢加工用	MMS...X3DB	φ3.0 —φ20.0	3	内部	DP7		○						P057
	MMS...X5DB		5	内部	DP7		○						
模具加工用	MHS	φ0.95 —φ12.0	1 —30	内部	VP	○	○			○	○		P064
铝合金加工用	MNS...LB	φ3.0 —φ14.0	5	内部	—				○				P076
	MNS...X10DB		10	内部	—				○				
	MNS...X20DB		20	内部	—				○				
	MNS...X30DB		30	内部	—				○				
铝合金、 铸铁高精度加工用	MAE...MB	φ3.0 —φ16.0	3	外部	—			○	○				P087
	MAS...MB		3	内部	—			○	○				P083
	MAS...LB		6	内部	—			○	○				
用于加工复合材料的钻头	MCC	φ4.76 —φ11.14	3	外部	DD	复合材料							P090
	MCA	φ6.38 —φ9.55	5	内部	DD								P091
	MCT	φ6.38 —φ9.55	5	内部	—								P092
	MCW	φ6.38 —φ9.55	5	内部	DD								P093
	MCCH	φ2.5 —φ9.55	2 —15	外部	—								P094
	MCAH	φ2.5 —φ9.55	3 —15	外部	—								P095

钻头选定标准表 硬质合金

整体钻头

用途	型号 (系列名称)	适用直径	钻削孔深 (L/D)	冷却方式	涂层	工件材料						钻头外形	页
						P	M	K	N	S	H		
						钢	不锈钢	铸铁	有色金属	耐热合金	高硬度钢		
用于加工倒角、定心	NEW DLE	φ3.0 —φ16.0	—	外部	DP1	○	○	○					P012
铰孔加工用	NEW MFE	φ0.75 —φ2.95	2	外部	DP1A	○	○	○	○				P015
		φ3.0 —φ20.0	2	外部	DP1	○	○	○	○				P016
用于加工极小孔径	MSE	φ0.1 —φ0.99	—	外部	VP	○	○	○	○	○			P097
	MSP0300SB	—	—	外部	VP	○	○	○	○	○		 *用于 MSE底孔的钻头。	P096
深孔	MGS	φ0.7 —φ3.0	—80	内部	—	○	○	○	○				P130
非铁材料加工用	DCSSS	φ0.2 —φ2.0	—	外部	DC				○				P136
	DCSSM	φ2.1 —φ3.0	—	外部	DC				○				P136
脆硬材料加工用	DCBSS	φ0.05 —φ3.0	—	外部	DC	陶瓷等脆硬材料							P138

可转位钻头

通用	MXV...X2	φ14.0 —φ63.0	2	内部	—	○	○	○	○				P230
	MXV...X3		3	内部	—	○	○	○	○				
	MXV...X4		4	内部	—	○	○	○	○				
	MXV...X5		5	内部	—	○	○	○	○				
	MXV...X6	φ17.0 —φ43.0	6	内部	—	○	○	○	○				

P

钻头

用途	型号 (系列名称)	适用直径	钻削孔深 (L/D)	冷却方式	涂层	工件材料						钻头外形	页
						P	M	K	N	S	H		
						钢	不锈钢	铸铁	有色金属	耐热合金	高硬度钢		
通用	TAFS	φ12.0 —φ56.0	2	内部	—	○	○	○					P241
	TAFM		3	内部	—	○	○	○					
	TAFL	φ16.0 —φ34.0	4	内部	—	○	○	○					

刀头可换式钻头

通用	STAWSS	φ10.0 —φ18.4	1.5	内部	—	○	○	○					P210
	STAWSN		3	内部	—	○	○	○					
	STAWMN		5	内部	—	○	○	○					
	STAWLN		8	内部	—	○	○	○					
	TAWSN	φ18.5 —φ30.4	3	内部	—	○	○	○					P219
	TAWMN		5	内部	—	○	○	○					
	TAWLN		8	内部	—	○	○	○					
桥梁用	TAWSB	φ24.5 —φ26.7	3	内部	—	○							P229
	TAWMB		5	内部	—	○							

焊接枪孔铰刀

精	枪孔铰刀	φ6.0 —φ30.0	—	内部	—	○	○	○	○				P250
	金刚石 烧结体 枪孔铰刀	φ6.0 —φ30.3	—	内部	—				○				P251

P

钻头

钻头选定标准表 高速钢

钻头名称	用途	型号 (系列名称)	适用直径	材料	冷却方式	涂层	工件材料						钻头外形	页
							P	M	K	N	S	H		
							钢	不锈钢	铸铁	有色金属	耐热合金	高硬度钢		
VIOLET 涂层 高精度钻头	高精度通用	VAPDS	φ0.5 —φ13.0	高级高合金高速钢	外部									P144
		VAPDM	φ0.5 —φ32.0		外部									P149
		 VAPDJ	φ1.0 —φ10.0		外部									P153
	高精度不锈钢用	VAPDSSUS	φ0.5 —φ20.0	钴高速钢	外部									P155
		VAPDMSUS	φ0.5 —φ13.0		外部									P161
	铰孔用	VAPDSCB	φ2.0 —φ32.0	高级高合金高速钢	外部									P168
VIOLET 涂层 钻头	通用	VSD	φ0.5 —φ13.0	高速钢	外部									P170
		VTDS	φ6.0 —φ32.0		外部									P172
SE 高精度 钻头	通用	SEPDS	φ0.5 —φ4.0	高速钢	外部	—								P140
		SEPDM	φ0.5 —φ4.0		外部	—								P142
直柄 钻头	通用	GSD	φ0.5 —φ13.0	高速钢	外部									P174
		SD	φ0.2 —φ17.5		外部	—								P176
		SD (1/100直柄)	φ0.25 —φ5.95		外部	—								P178
	通用长柄型	SDLS	φ1.0 —φ10.0	高速钢	外部	—								P179
	通用	KSD	φ1.0 —φ13.0	钴高速钢	外部	—								P182

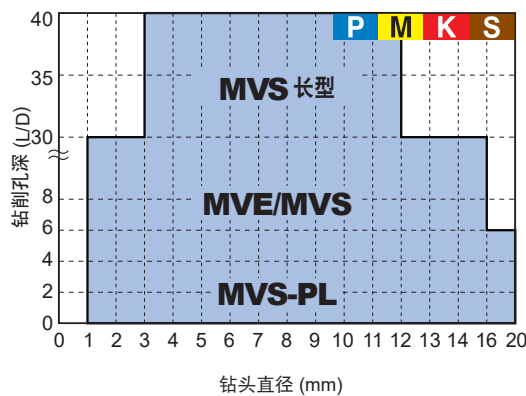
钻头名称	用途	型号 (系列名称)	适用直径	材料	冷却方式	涂层	工件材料						钻头外形	页
							P	M	K	N	S	H		
							钢	不锈钢	铸铁	有色金属	耐热合金	高硬度钢		
直柄钻头	深孔	GWSS	φ1.0 —φ13.0	钴高速钢	外部									P184
		GWSL	φ2.0 —φ13.0		外部									P186
		LSD	φ1.0 —φ13.0	高速钢	外部	—								P189
	薄板	EPSS	φ2.0 —φ13.0	高速钢	外部	—								P192
锥柄钻头	通用	GTD	φ6.0 —φ40.0	高速钢	外部									P193
		TD	φ3.0 —φ75.0		外部	—								P194
		KTD	φ5.0 —φ50.0	钴高速钢	外部	—								P198
	深孔	GWTS	φ6.0 —φ32.0	钴高速钢	外部									P204
		LTD	φ6.0 —φ40.0	高速钢	外部	—								P200
	钢筋钻削用	GTTD	φ17.0 —φ32.0	高速钢	外部									P205
		TTD	φ17.0 —φ32.0	高速钢	外部	—								P206
三角钻头	通用电钻用	3KD	φ7.0 —φ26.0	高速钢	外部	—								P207

加工适用范围

■ 整体硬质合金钻头

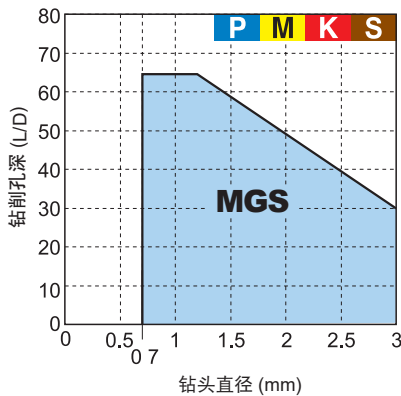
MVE/MVS

通用型钻头



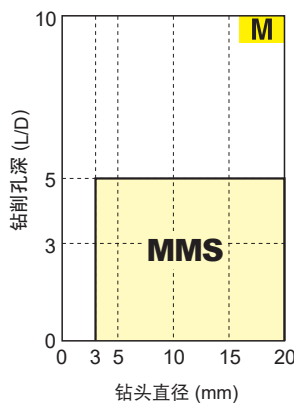
MGS

小径深孔加工



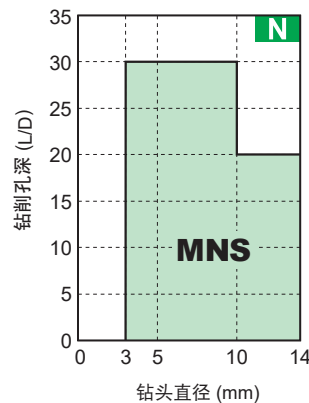
MMS

不锈钢加工用



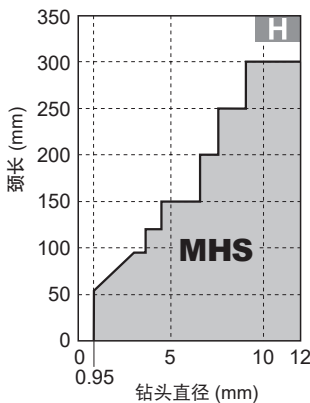
MNS

铝合金加工用



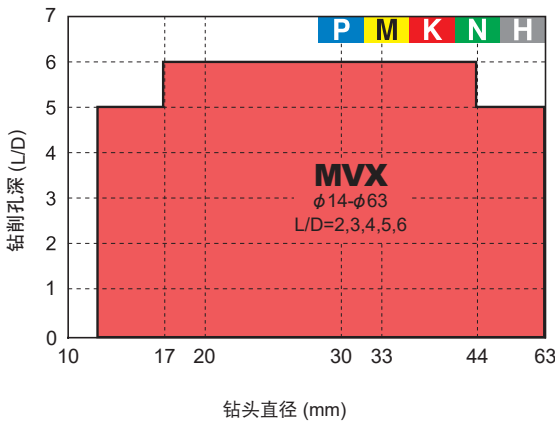
MHS

模具加工用



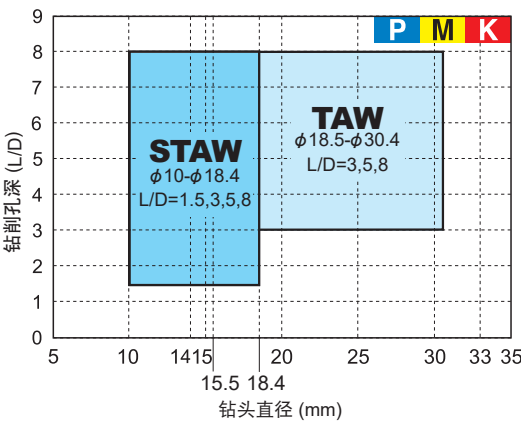
■ 可转位钻头

MVX



■ 刀头可换式钻头

STAW, TAW



P

钻头

钻孔 [整体硬质合金钻头]

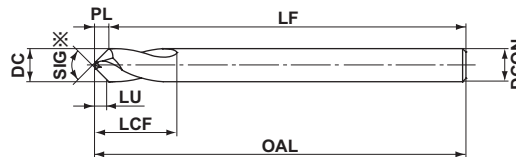
DLE **NEW**
导向钻头

- 用于加工倒角、定心加工
- 通过先端角的2阶段形状提高了先端强度(SIG60°, 90°)
- 切削锋利度良好、耐破损性优越, 即使是不锈钢也能稳定地加工。



P	M	K	N	S	H
钢	不锈钢	铸铁			

外冷却



DCON=3	3<DCON≤6	6<DCON≤10	10<DCON≤16
0 -0.010	0 -0.012	0 -0.015	0 -0.018

※ 当先端直径为SIG60°、90°时, 如果在2阶段先端角度区域约为DC/4, 各自都不能成为60°、90°的底孔。此外, 在此区域不能进行倒角加工。

DC (mm)	SIG	DP1020	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
3	60°	○	DLE0300S030P060	2.0	9	45	42.9	2.1	3
4	60°	○	DLE0400S040P060	2.7	12	50	47.2	2.8	4
5	60°	○	DLE0500S050P060	3.4	14	60	56.5	3.5	5
6	60°	○	DLE0600S060P060	4.0	15	66	61.8	4.2	6
7	60°	○	DLE0700S070P060	4.7	18	74	69.1	4.9	7
8	60°	○	DLE0800S080P060	5.4	20	74	68.4	5.6	8
10	60°	○	DLE1000S100P060	6.8	24	84	77.0	7.0	10
12	60°	○	DLE1200S120P060	8.1	28	95	86.6	8.4	12
3	90°	●	DLE0300S030P090	1.2	9	45	43.7	1.3	3
4	90°	●	DLE0400S040P090	1.6	12	50	48.3	1.7	4
5	90°	●	DLE0500S050P090	2.0	14	60	57.9	2.1	5
6	90°	●	DLE0600S060P090	2.4	15	66	63.4	2.6	6
7	90°	●	DLE0700S070P090	2.8	18	74	71.0	3.0	7
8	90°	●	DLE0800S080P090	3.2	20	74	70.6	3.4	8
10	90°	●	DLE1000S100P090	4.1	24	84	79.7	4.3	10
12	90°	●	DLE1200S120P090	4.9	28	95	89.9	5.1	12
16	90°	●	DLE1600S160P090	6.6	35	113	106.2	6.8	16
3	120°	○	DLE0300S030P120	0.8	9	45	44.1	0.9	3
4	120°	○	DLE0400S040P120	1.1	12	50	48.8	1.2	4
5	120°	○	DLE0500S050P120	1.3	14	60	58.6	1.4	5
6	120°	○	DLE0600S060P120	1.6	15	66	64.3	1.7	6
7	120°	○	DLE0700S070P120	1.9	18	74	72.0	2.0	7
8	120°	○	DLE0800S080P120	2.2	20	74	71.7	2.3	8
10	120°	○	DLE1000S100P120	2.8	24	84	81.1	2.9	10
12	120°	○	DLE1200S120P120	3.3	28	95	91.5	3.5	12
3	145°	○	DLE0300S030P145	0.4	9	45	44.5	0.5	3
4	145°	○	DLE0400S040P145	0.5	12	50	49.4	0.6	4
5	145°	○	DLE0500S050P145	0.7	14	60	59.2	0.8	5
6	145°	○	DLE0600S060P145	0.8	15	66	65.1	0.9	6
7	145°	○	DLE0700S070P145	1.0	18	74	72.9	1.1	7
8	145°	○	DLE0800S080P145	1.1	20	74	72.7	1.3	8

注1) 定心直径不到工具直径(加工直径)DC, 请把使用可能长度LU作为大致标准使用。

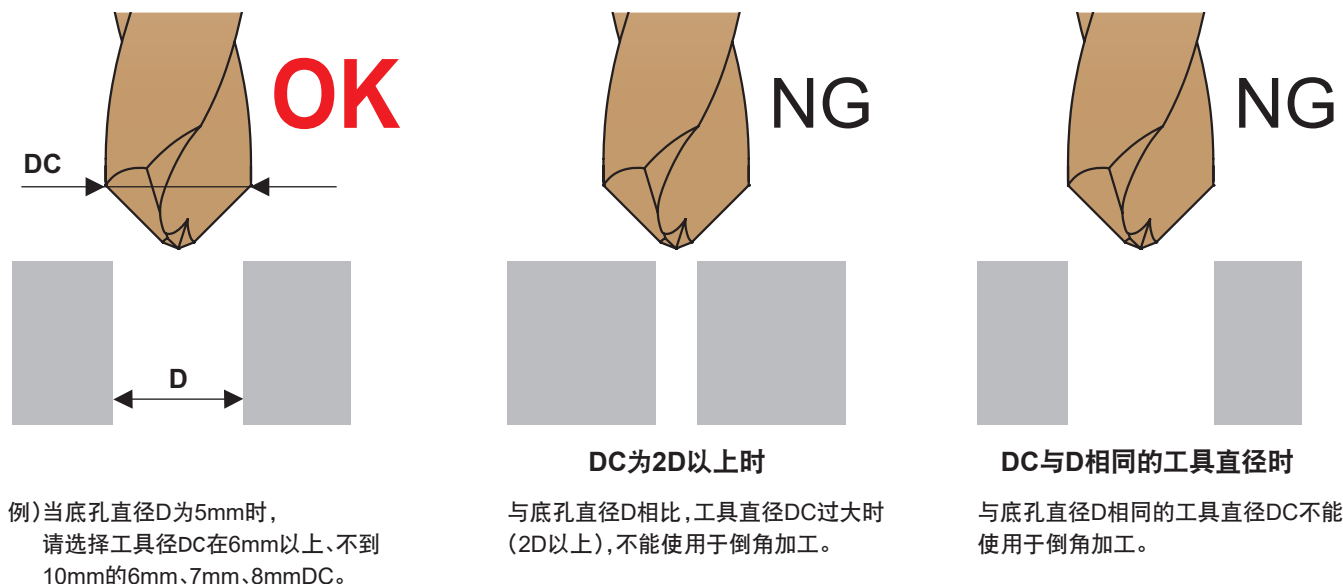
○: 预定于2019年秋开始出售

●: 标准库存品

导向钻头的选定方法

■ 倒角切削

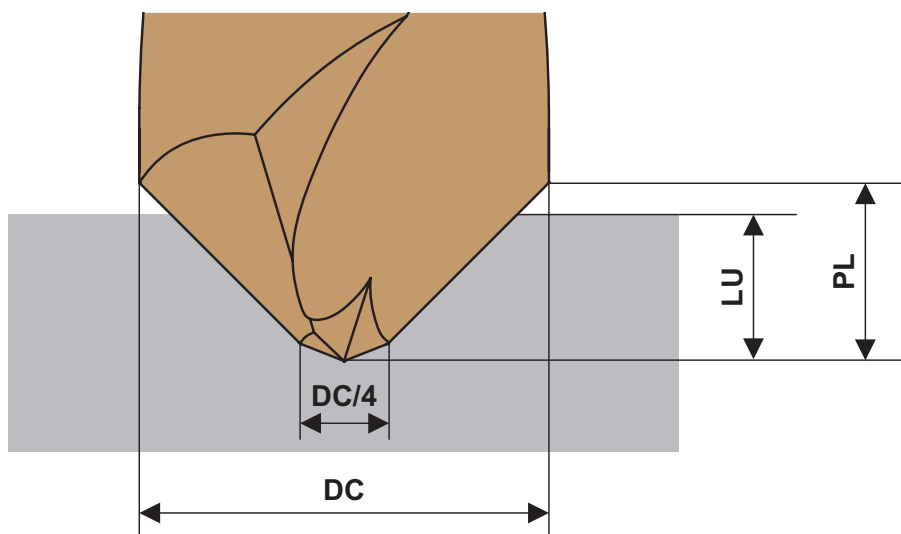
对于底孔直径D，请在 $D < DC < 2D$ 的范围内选择工具直径（加工直径）DC



■ 定心

工具直径DC与底孔直径相同时，不能使用定心直径加工。请把规格表中的能使用长度LU作为大致标准使用。

当先端直径为SIG60°、90°时，如果在2阶段先端角度区域约为DC/4，各自都不能成为60°、90°的底孔。此外，在此区域不能进行倒角加工。



钻孔 [整体硬质合金钻头]

DLE NEW
导向钻头

推荐切削条件

※关于先端角为60°、120°、145°的推荐切削条件，请参照预计于2019年秋发行的TOOL NEWS B223J。

工件材料	软钢 (≤HB180)		碳钢·合金钢 (HB180—280)		碳钢·合金钢 (HB280—350)	
	SS400、S10C等		S45C、SCM440等		SNCM439等	
钻头直径 DC (mm)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)
3	7900	0.06 (0.04—0.08)	6800	0.06 (0.04—0.08)	6300	0.05 (0.03—0.07)
4	5900	0.06 (0.04—0.08)	5100	0.06 (0.04—0.08)	4700	0.05 (0.03—0.07)
5	5000	0.07 (0.05—0.09)	4400	0.07 (0.05—0.09)	4100	0.06 (0.04—0.08)
6	4200	0.07 (0.05—0.09)	3700	0.07 (0.05—0.09)	3400	0.06 (0.04—0.08)
7	3600	0.08 (0.05—0.10)	3100	0.08 (0.05—0.10)	2900	0.06 (0.04—0.08)
8	3100	0.08 (0.05—0.10)	2700	0.08 (0.05—0.10)	2500	0.06 (0.04—0.08)
10	2700	0.09 (0.05—0.11)	2300	0.09 (0.05—0.11)	2200	0.07 (0.04—0.09)
12	2200	0.09 (0.05—0.11)	1900	0.09 (0.05—0.11)	1800	0.07 (0.04—0.09)
16	1700	0.12 (0.10—0.14)	1500	0.12 (0.10—0.14)	1400	0.08 (0.06—0.10)

工件材料	奥氏体类不锈钢 (≤HB200)		灰铸铁 (≤350MPa)		耐热合金	
	SUS304, SUS316等		FC300等		Inconel718等	
钻头直径 DC (mm)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)
3	1500	0.04 (0.02—0.06)	7900	0.06 (0.04—0.08)	5800	0.06 (0.04—0.08)
4	1100	0.04 (0.02—0.06)	5900	0.06 (0.04—0.08)	4300	0.06 (0.04—0.08)
5	1200	0.06 (0.04—0.08)	5000	0.07 (0.05—0.09)	3800	0.07 (0.05—0.09)
6	1000	0.06 (0.04—0.08)	4200	0.07 (0.05—0.09)	3100	0.07 (0.05—0.09)
7	900	0.06 (0.04—0.08)	3600	0.08 (0.05—0.10)	2700	0.07 (0.05—0.09)
8	790	0.06 (0.04—0.08)	3100	0.08 (0.05—0.10)	2300	0.07 (0.05—0.09)
10	630	0.06 (0.04—0.08)	2700	0.09 (0.05—0.11)	1900	0.08 (0.05—0.10)
12	530	0.06 (0.04—0.08)	2200	0.09 (0.05—0.11)	1500	0.08 (0.05—0.10)
16	390	0.08 (0.06—0.10)	1700	0.12 (0.10—0.14)	1100	0.11 (0.09—0.13)

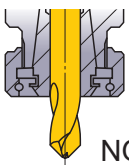
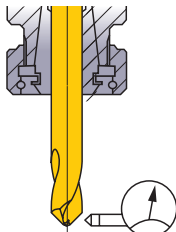
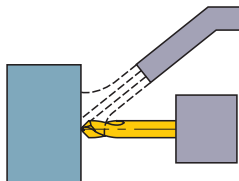
注1) 对底孔直径D进行倒角加工时，请在D < DC < 2D的范围内选择工具直径（加工直径）DC。

注2) 进行V形槽加工及横向进给倒角加工时，请降低切削条件后再使用。

P

钻头

高级使用方法

钻头装夹	安装注意事项	安装时的振摆	薄板钻削	适宜的供油方法
 使用弹簧夹头可确保夹紧。	 NG 不能把钻头的沟槽部位夹住。	 振摆应在0.03mm以内。	 OK 增加支承 NG 发生挠曲	 请把供油部位设置到钻头先端部位。

MFE NEW 小径型

铤孔加工用钻头

- 维持尖锐的切削刃，实现了长寿命
- 采用由不同弧度的R组成的槽形，确保了高效率的处理切屑性能



硬质合金

P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属		

外冷却

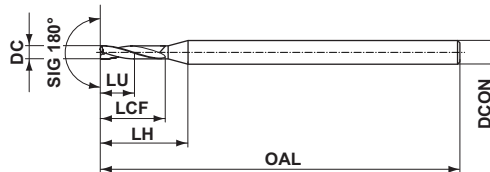


图1

	$0.75 \leq DC \leq 2.95$	
	$\begin{matrix} 0 \\ -0.014 \end{matrix}$	
	DCON=3	DCON=4
	$\begin{matrix} 0 \\ -0.006 \end{matrix}$	$\begin{matrix} 0 \\ -0.008 \end{matrix}$

DC (mm)	钻 削 孔 深 (L/D)	DP102A	型号	尺寸 (mm)					图
				LU	LCF	LH	OAL	DCON	
0.75	2	●	MFE0075X02S030	1.5	3	7.7	45	3	1
0.8	2	●	MFE0080X02S030	1.6	3.2	7.8	45	3	1
0.85	2	●	MFE0085X02S030	1.7	3.4	7.9	45	3	1
0.9	2	●	MFE0090X02S030	1.8	3.6	8	45	3	1
0.95	2	●	MFE0095X02S030	1.9	3.8	8.1	45	3	1
1	2	●	MFE0100X02S030	2	4	8.2	45	3	1
1.05	2	●	MFE0105X02S030	2.1	4.2	8.3	45	3	1
1.1	2	●	MFE0110X02S030	2.2	4.4	8.4	45	3	1
1.15	2	●	MFE0115X02S030	2.3	4.6	8.6	45	3	1
1.2	2	●	MFE0120X02S030	2.4	4.8	8.7	45	3	1
1.25	2	●	MFE0125X02S030	2.5	5	8.8	45	3	1
1.3	2	●	MFE0130X02S030	2.6	5.2	8.9	45	3	1
1.35	2	●	MFE0135X02S030	2.7	5.4	9	45	3	1
1.4	2	●	MFE0140X02S030	2.8	5.6	9.1	45	3	1
1.45	2	●	MFE0145X02S030	2.9	5.8	9.2	45	3	1
1.5	2	●	MFE0150X02S030	3	6	9.3	45	3	1
1.55	2	●	MFE0155X02S030	3.1	6.2	9.4	45	3	1
1.6	2	●	MFE0160X02S030	3.2	6.4	9.5	45	3	1
1.65	2	●	MFE0165X02S030	3.3	6.6	9.6	45	3	1
1.7	2	●	MFE0170X02S030	3.4	6.8	9.7	45	3	1
1.75	2	●	MFE0175X02S030	3.5	7	9.8	45	3	1
1.8	2	●	MFE0180X02S030	3.6	7.2	9.9	45	3	1
1.85	2	●	MFE0185X02S030	3.7	7.4	10	45	3	1
1.9	2	●	MFE0190X02S030	3.8	7.6	10.2	45	3	1
1.95	2	●	MFE0195X02S030	3.9	7.8	10.3	45	3	1
2	2	●	MFE0200X02S040	4	8	12.2	50	4	1
2.05	2	●	MFE0205X02S040	4.1	8.2	12.3	50	4	1
2.1	2	●	MFE0210X02S040	4.2	8.4	12.4	50	4	1
2.15	2	●	MFE0215X02S040	4.3	8.6	12.6	50	4	1
2.2	2	●	MFE0220X02S040	4.4	8.8	12.7	50	4	1
2.25	2	●	MFE0225X02S040	4.5	9	12.8	50	4	1
2.3	2	●	MFE0230X02S040	4.6	9.2	12.9	50	4	1
2.35	2	●	MFE0235X02S040	4.7	9.4	13	50	4	1
2.4	2	●	MFE0240X02S040	4.8	9.6	13.1	50	4	1
2.45	2	●	MFE0245X02S040	4.9	9.8	13.2	50	4	1
2.5	2	●	MFE0250X02S040	5	10	13.3	50	4	1
2.55	2	●	MFE0255X02S040	5.1	10.2	13.4	50	4	1
2.6	2	●	MFE0260X02S040	5.2	10.4	13.5	50	4	1
2.65	2	●	MFE0265X02S040	5.3	10.6	13.6	50	4	1
2.7	2	●	MFE0270X02S040	5.4	10.8	13.7	50	4	1
2.75	2	●	MFE0275X02S040	5.5	11	13.8	50	4	1
2.8	2	●	MFE0280X02S040	5.6	11.2	13.9	50	4	1
2.85	2	●	MFE0285X02S040	5.7	11.4	14	50	4	1
2.9	2	●	MFE0290X02S040	5.8	11.6	14.2	50	4	1
2.95	2	●	MFE0295X02S040	5.9	11.8	14.3	50	4	1

P

钻头

●：标准库存品

切削条件 > P019
技术资料 > R001

P015

钻孔 [整体硬质合金钻头]

MFE

铤孔加工用钻头

- 维持尖锐的切削刃，实现了长寿命
- 采用由不同弧度的R组成的槽形，确保了高效率的处理切屑性能



P

钢

M

不锈钢

K

铸铁

N

有色金属

S

H

外冷却

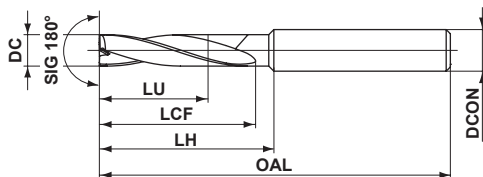


图1

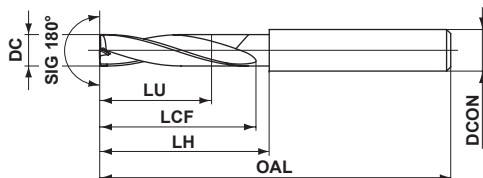


图2

	3 ≤ DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 18	18 < DC ≤ 20
	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.021 \end{smallmatrix}$
	DCON=6	DCON=8, 10	DCON=12, 14, 16, 18	DCON=20
	$\begin{smallmatrix} 0 \\ -0.008 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.009 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.011 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.013 \end{smallmatrix}$

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)					图
				LU	LCF	LH	OAL	DCON	
3	2	●	MFE0300X02S060	6	12	19.6	55	6	1
3.1	2	●	MFE0310X02S060	6.2	14	21.4	55	6	1
3.2	2	●	MFE0320X02S060	6.4	14	21.2	55	6	1
3.3	2	●	MFE0330X02S060	6.6	14	21	55	6	1
3.4	2	●	MFE0340X02S060	6.8	14	20.9	55	6	1
3.5	2	●	MFE0350X02S060	7	14	20.7	55	6	1
3.6	2	●	MFE0360X02S060	7.2	16	22.5	55	6	1
3.7	2	●	MFE0370X02S060	7.4	16	22.3	55	6	1
3.8	2	●	MFE0380X02S060	7.6	16	22.1	55	6	1
3.9	2	●	MFE0390X02S060	7.8	16	21.9	55	6	1
4	2	●	MFE0400X02S060	8	16	21.7	55	6	1
4.1	2	●	MFE0410X02S060	8.2	18	23.5	62	6	1
4.2	2	●	MFE0420X02S060	8.4	18	23.4	62	6	1
4.3	2	●	MFE0430X02S060	8.6	18	23.2	62	6	1
4.4	2	●	MFE0440X02S060	8.8	18	23	62	6	1
4.5	2	●	MFE0450X02S060	9	18	22.8	62	6	1
4.6	2	●	MFE0460X02S060	9.2	20	23.7	62	6	1
4.7	2	●	MFE0470X02S060	9.4	20	23.7	62	6	1
4.8	2	●	MFE0480X02S060	9.6	20	23.6	62	6	1
4.9	2	●	MFE0490X02S060	9.8	20	23.6	62	6	1
5	2	●	MFE0500X02S060	10	20	23.5	62	6	1
5.1	2	●	MFE0510X02S060	10.2	22	25.5	62	6	1
5.2	2	●	MFE0520X02S060	10.4	22	25.4	62	6	1
5.3	2	●	MFE0530X02S060	10.6	22	25.4	62	6	1
5.4	2	●	MFE0540X02S060	10.8	22	25.3	62	6	1
5.5	2	●	MFE0550X02S060	11	22	25.3	62	6	1
5.6	2	●	MFE0560X02S060	11.2	24	27.2	62	6	1
5.7	2	●	MFE0570X02S060	11.4	24	27.2	62	6	1
5.8	2	●	MFE0580X02S060	11.6	24	27.1	62	6	1
5.9	2	●	MFE0590X02S060	11.8	24	27.1	62	6	1

●：标准库存品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)					图
				LU	LCF	LH	OAL	DCON	
6	2	●	MFE0600X02S060	12	24	27	62	6	1
NEW 6.1	2	●	MFE0610X02S070	12.2	26	29.5	74	7	1
6.1	2	●	MFE0610X02S080	12.2	26	30	74	8	1
NEW 6.2	2	●	MFE0620X02S070	12.4	26	29.4	74	7	1
6.2	2	●	MFE0620X02S080	12.4	26	29.9	74	8	1
NEW 6.3	2	●	MFE0630X02S070	12.6	26	29.4	74	7	1
6.3	2	●	MFE0630X02S080	12.6	26	29.9	74	8	1
NEW 6.4	2	●	MFE0640X02S070	12.8	26	29.3	74	7	1
6.4	2	●	MFE0640X02S080	12.8	26	29.8	74	8	1
NEW 6.5	2	●	MFE0650X02S070	13	26	29.3	74	7	1
6.5	2	●	MFE0650X02S080	13	26	29.8	74	8	1
NEW 6.6	2	●	MFE0660X02S070	13.2	28	31.2	74	7	1
6.6	2	●	MFE0660X02S080	13.2	28	31.7	74	8	1
NEW 6.7	2	●	MFE0670X02S070	13.4	28	31.2	74	7	1
6.7	2	●	MFE0670X02S080	13.4	28	31.7	74	8	1
NEW 6.8	2	●	MFE0680X02S070	13.6	28	31.1	74	7	1
6.8	2	●	MFE0680X02S080	13.6	28	31.6	74	8	1
NEW 6.9	2	●	MFE0690X02S070	13.8	28	31.1	74	7	1
6.9	2	●	MFE0690X02S080	13.8	28	31.6	74	8	1
NEW 7	2	●	MFE0700X02S070	14	28	31	74	7	1
7	2	●	MFE0700X02S080	14	28	31.5	74	8	1
7.1	2	●	MFE0710X02S080	14.2	30	33.5	74	8	1
7.2	2	●	MFE0720X02S080	14.4	30	33.4	74	8	1
7.3	2	●	MFE0730X02S080	14.6	30	33.4	74	8	1
7.4	2	●	MFE0740X02S080	14.8	30	33.3	74	8	1
7.5	2	●	MFE0750X02S080	15	30	33.3	74	8	1
7.6	2	●	MFE0760X02S080	15.2	32	35.2	74	8	1
7.7	2	●	MFE0770X02S080	15.4	32	35.2	74	8	1
7.8	2	●	MFE0780X02S080	15.6	32	35.1	74	8	1
7.9	2	●	MFE0790X02S080	15.8	32	35.1	74	8	1
8	2	●	MFE0800X02S080	16	32	35	74	8	1
8.1	2	●	MFE0810X02S100	16.2	34	38	84	10	1
8.2	2	●	MFE0820X02S100	16.4	34	37.9	84	10	1
8.3	2	●	MFE0830X02S100	16.6	34	37.9	84	10	1
8.4	2	●	MFE0840X02S100	16.8	34	37.8	84	10	1
8.5	2	●	MFE0850X02S100	17	34	37.8	84	10	1
8.6	2	●	MFE0860X02S100	17.2	36	39.7	84	10	1
8.7	2	●	MFE0870X02S100	17.4	36	39.7	84	10	1
8.8	2	●	MFE0880X02S100	17.6	36	39.6	84	10	1
8.9	2	●	MFE0890X02S100	17.8	36	39.6	84	10	1
9	2	●	MFE0900X02S100	18	36	39.5	84	10	1
9.1	2	●	MFE0910X02S100	18.2	38	41.5	84	10	1
9.2	2	●	MFE0920X02S100	18.4	38	41.4	84	10	1
9.3	2	●	MFE0930X02S100	18.6	38	41.4	84	10	1
9.4	2	●	MFE0940X02S100	18.8	38	41.3	84	10	1
9.5	2	●	MFE0950X02S100	19	38	41.3	84	10	1
9.6	2	●	MFE0960X02S100	19.2	40	43.2	84	10	1
9.7	2	●	MFE0970X02S100	19.4	40	43.2	84	10	1

P

钻头

MFE

铤孔加工用钻头

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)					图
				LU	LCF	LH	OAL	DCON	
9.8	2	●	MFE0980X02S100	19.6	40	43.1	84	10	1
9.9	2	●	MFE0990X02S100	19.8	40	43.1	84	10	1
10	2	●	MFE1000X02S100	20	40	43	84	10	1
10.1	2	●	MFE1010X02S120	20.2	42	46	95	12	1
10.2	2	●	MFE1020X02S120	20.4	42	45.9	95	12	1
10.3	2	●	MFE1030X02S120	20.6	42	45.9	95	12	1
10.4	2	●	MFE1040X02S120	20.8	42	45.8	95	12	1
10.5	2	●	MFE1050X02S120	21	42	45.8	95	12	1
10.6	2	●	MFE1060X02S120	21.2	44	47.7	95	12	1
10.7	2	●	MFE1070X02S120	21.4	44	47.7	95	12	1
10.8	2	●	MFE1080X02S120	21.6	44	47.6	95	12	1
10.9	2	●	MFE1090X02S120	21.8	44	47.6	95	12	1
11	2	●	MFE1100X02S120	22	44	47.5	95	12	1
11.1	2	●	MFE1110X02S120	22.2	46	49.5	95	12	1
11.2	2	●	MFE1120X02S120	22.4	46	49.4	95	12	1
11.3	2	●	MFE1130X02S120	22.6	46	49.4	95	12	1
11.4	2	●	MFE1140X02S120	22.8	46	49.3	95	12	1
11.5	2	●	MFE1150X02S120	23	46	49.3	95	12	1
11.6	2	●	MFE1160X02S120	23.2	48	51.2	95	12	1
11.7	2	●	MFE1170X02S120	23.4	48	51.2	95	12	1
11.8	2	●	MFE1180X02S120	23.6	48	51.1	95	12	1
11.9	2	●	MFE1190X02S120	23.8	48	51.1	95	12	1
12	2	●	MFE1200X02S120	24	48	51	95	12	1
12.5	2	●	MFE1250X02S140	25	50	53	102	14	2
13	2	●	MFE1300X02S140	26	52	55	102	14	2
13.5	2	●	MFE1350X02S140	27	54	57	102	14	2
14	2	●	MFE1400X02S140	28	56	59	102	14	2
14.5	2	●	MFE1450X02S160	29	58	61	111	16	2
15	2	●	MFE1500X02S160	30	60	63	111	16	2
15.5	2	●	MFE1550X02S160	31	62	65	111	16	2
16	2	●	MFE1600X02S160	32	64	67	111	16	2
16.5	2	●	MFE1650X02S180	33	66	69	119	18	2
17	2	●	MFE1700X02S180	34	68	71	119	18	2
17.5	2	●	MFE1750X02S180	35	70	73	119	18	2
18	2	●	MFE1800X02S180	36	72	75	119	18	2
18.5	2	●	MFE1850X02S200	37	74	77	127	20	2
19	2	●	MFE1900X02S200	38	76	79	127	20	2
19.5	2	●	MFE1950X02S200	39	78	81	127	20	2
20	2	●	MFE2000X02S200	40	80	83	127	20	2

●：标准库存品

P

钻头

推荐切削条件

工件材料		软钢 (≤180HB)		碳钢、合金钢 (180—280HB)		碳钢、合金钢 (280—350HB)	
		SS400、S10C等		S45C、SCM440等		SNCM439等	
直径 DC (mm)	钻削孔深 (L/D)	转速 (min ⁻¹)	平坦表面 α=0° 进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	平坦表面 α=0° 进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	平坦表面 α=0° 进给量 (Min.—Max.) (mm/rev)
0.75	≤2	23300	0.030 (0.010—0.050)	19000	0.030 (0.010—0.050)	16900	0.030 (0.010—0.050)
1.0	≤2	17500	0.030 (0.010—0.050)	14300	0.030 (0.010—0.050)	12700	0.030 (0.010—0.050)
1.5	≤2	12200	0.035 (0.015—0.055)	10000	0.035 (0.015—0.055)	8400	0.035 (0.015—0.050)
2.0	≤2	9500	0.040 (0.020—0.060)	7900	0.040 (0.020—0.060)	6700	0.040 (0.020—0.060)
2.5	≤2	7900	0.050 (0.030—0.070)	6600	0.050 (0.030—0.070)	5700	0.050 (0.030—0.070)
3.0	≤2	7900	0.060 (0.040—0.080)	7900	0.060 (0.040—0.080)	6800	0.060 (0.040—0.080)
4.0	≤2	5900	0.080 (0.060—0.100)	5900	0.080 (0.060—0.100)	5100	0.080 (0.060—0.100)
5.0	≤2	4700	0.100 (0.080—0.130)	4700	0.100 (0.080—0.130)	4100	0.100 (0.080—0.130)
6.0	≤2	3900	0.130 (0.100—0.150)	3900	0.130 (0.100—0.150)	3400	0.130 (0.100—0.150)
8.0	≤2	2900	0.150 (0.130—0.170)	2900	0.150 (0.130—0.170)	2500	0.150 (0.130—0.170)
10.0	≤2	2300	0.170 (0.150—0.200)	2300	0.170 (0.150—0.200)	2000	0.170 (0.150—0.200)
12.0	≤2	1900	0.200 (0.170—0.250)	1900	0.200 (0.170—0.250)	1700	0.200 (0.170—0.250)
16.0	≤2	1400	0.250 (0.200—0.300)	1400	0.250 (0.200—0.300)	1200	0.250 (0.200—0.300)
20.0	≤2	1100	0.300 (0.250—0.350)	1100	0.300 (0.250—0.350)	1000	0.300 (0.250—0.350)

工件材料		奥氏体类不锈钢 (≤200HB)		灰铸铁		球墨铸铁	
		SUS304、SUS316等		FC300等		FCD450等	
直径 DC (mm)	钻削孔深 (L/D)	转速 (min ⁻¹)	平坦表面 α=0° 进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	平坦表面 α=0° 进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	平坦表面 α=0° 进给量 (Min.—Max.) (mm/rev)
0.75	≤2	10600	0.007 (0.003—0.011)	23300	0.030 (0.010—0.050)	16900	0.010 (0.005—0.015)
1.0	≤2	7900	0.007 (0.003—0.011)	17500	0.030 (0.010—0.050)	12700	0.010 (0.005—0.015)
1.5	≤2	5300	0.010 (0.005—0.015)	12200	0.035 (0.015—0.055)	10000	0.020 (0.010—0.030)
2.0	≤2	4700	0.015 (0.010—0.020)	9500	0.040 (0.020—0.060)	8700	0.030 (0.015—0.045)
2.5	≤2	3800	0.015 (0.010—0.020)	7900	0.050 (0.030—0.070)	7300	0.045 (0.025—0.065)
3.0	≤2	3100	0.020 (0.010—0.030)	7900	0.060 (0.040—0.080)	6800	0.050 (0.040—0.060)
4.0	≤2	2300	0.030 (0.020—0.040)	5900	0.080 (0.060—0.100)	5500	0.060 (0.050—0.080)
5.0	≤2	1900	0.040 (0.030—0.050)	4700	0.100 (0.080—0.120)	4400	0.080 (0.060—0.100)
6.0	≤2	1500	0.050 (0.040—0.060)	3900	0.120 (0.100—0.140)	3700	0.100 (0.080—0.120)
8.0	≤2	1100	0.060 (0.050—0.080)	2900	0.140 (0.120—0.160)	2700	0.120 (0.100—0.150)
10.0	≤2	950	0.080 (0.060—0.100)	2300	0.160 (0.140—0.180)	2200	0.150 (0.120—0.180)
12.0	≤2	790	0.100 (0.080—0.120)	1900	0.180 (0.160—0.200)	1800	0.180 (0.150—0.200)
16.0	≤2	590	0.120 (0.100—0.150)	1400	0.200 (0.180—0.240)	1300	0.200 (0.180—0.250)
20.0	≤2	470	0.150 (0.120—0.200)	1100	0.240 (0.200—0.280)	1100	0.250 (0.200—0.300)

工件材料		铝合金 (Si<5%)	
		A6061、A7075等	
直径 DC (mm)	钻削孔深 (L/D)	转速 (min ⁻¹)	平坦表面 α=0° 进给量 (Min.—Max.) (mm/rev)
0.75	≤2	42400	0.020 (0.010—0.030)
1.0	≤2	31800	0.020 (0.010—0.030)
1.5	≤2	21200	0.020 (0.010—0.030)
2.0	≤2	17500	0.050 (0.030—0.070)
2.5	≤2	14000	0.060 (0.040—0.090)
3.0	≤2	11600	0.060 (0.040—0.090)
4.0	≤2	8700	0.080 (0.060—0.100)
5.0	≤2	7000	0.100 (0.080—0.130)
6.0	≤2	5800	0.130 (0.100—0.160)
8.0	≤2	4300	0.160 (0.130—0.200)
10.0	≤2	3500	0.200 (0.160—0.240)
12.0	≤2	2900	0.240 (0.200—0.280)
16.0	≤2	2100	0.280 (0.240—0.320)
20.0	≤2	1700	0.320 (0.280—0.360)

注1) 推荐的孔深为DC×2。是加工倾斜面时从被切削材料最上方开始的深度。(参照示意图)

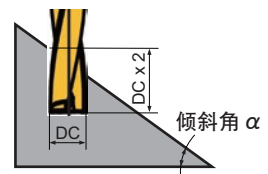
注2) 上述切削条件表示以平坦表面进行打孔加工为前提的数值。

对倾斜面进行打孔加工时, 请根据倾斜角度调整进给速度。

当倾斜角α在30°以下时, 请把进给速度的70%以下作为大致标准进行调整。

当倾斜角α超过了30°时, 请把进给速度的50%以下作为大致标准进行调整。

注3) 本产品是用于打孔加工的工具。不能用于横向进给加工或螺旋加工等。



P

钻头

钻孔 [整体硬质合金钻头]

MVS 导向钻头
WSTAR 钻头

● 导孔加工用



DC<3

DC≥3

P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属	耐热合金	

内冷却

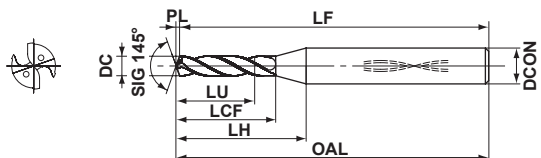


图1

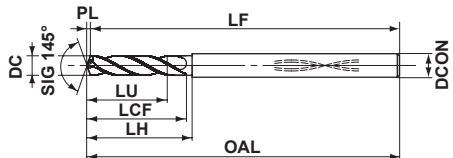


图2

	1≤DC≤2.9	DC=3	3<DC≤6	6<DC≤10	10<DC≤14
	$\begin{smallmatrix} +0.014 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.014 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.022 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.027 \end{smallmatrix}$
	DCON=3	3<DCON≤6	6<DCON≤10	10<DCON≤14	
	$\begin{smallmatrix} 0 \\ -0.006 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.008 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.009 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.011 \end{smallmatrix}$	

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
1.0	2	●	MVS0100X02S030	2.2	5.2	8.9	55.2	55	0.2	3	1
1.1	2	●	MVS0110X02S030	2.4	5.6	9.1	55.2	55	0.2	3	1
1.2	2	●	MVS0120X02S030	2.6	6.2	9.6	55.2	55	0.2	3	1
1.3	2	●	MVS0130X02S030	2.8	6.6	9.8	55.2	55	0.2	3	1
1.4	2	●	MVS0140X02S030	3.0	7.2	10.2	55.2	55	0.2	3	1
1.5	2	●	MVS0150X02S030	3.2	7.6	10.4	55.2	55	0.2	3	1
1.6	2	●	MVS0160X02S030	3.5	8.3	10.9	68.3	68	0.3	3	1
1.7	2	●	MVS0170X02S030	3.7	8.7	11.1	68.3	68	0.3	3	1
1.8	2	●	MVS0180X02S030	3.9	9.3	11.5	68.3	68	0.3	3	1
1.9	2	●	MVS0190X02S030	4.1	9.7	11.8	68.3	68	0.3	3	1
2.0	2	●	MVS0200X02S030	4.3	10.3	12.2	68.3	68	0.3	3	1
2.1	2	●	MVS0210X02S030	4.5	10.7	12.4	74.3	74	0.3	3	1
2.2	2	●	MVS0220X02S030	4.7	11.3	12.8	74.3	74	0.3	3	1
2.3	2	●	MVS0230X02S030	5.0	11.8	13.1	74.4	74	0.4	3	1
2.4	2	●	MVS0240X02S030	5.2	12.4	13.5	74.4	74	0.4	3	1
2.5	2	●	MVS0250X02S030	5.4	12.8	13.7	74.4	74	0.4	3	1
2.6	2	●	MVS0260X02S030	5.6	13.4	13.4	81.4	81	0.4	3	2
2.7	2	●	MVS0270X02S030	5.8	13.8	13.8	81.4	81	0.4	3	2
2.8	2	●	MVS0280X02S030	6.0	14.4	14.4	81.4	81	0.4	3	2
2.9	2	●	MVS0290X02S030	6.3	14.9	14.9	81.5	81	0.5	3	2
3.0	2	●	MVS0300X02S030PL	6.5	16.5	16.5	55.5	55	0.5	3	2
3.1	2	●	MVS0310X02S040PL	6.7	18.5	20.5	55.5	55	0.5	4	1
3.2	2	●	MVS0320X02S040PL	6.9	18.5	20.5	55.5	55	0.5	4	1
3.3	2	●	MVS0330X02S040PL	7.1	18.5	20.5	55.5	55	0.5	4	1
3.4	2	●	MVS0340X02S040PL	7.3	18.5	20.5	55.5	55	0.5	4	1
3.5	2	●	MVS0350X02S040PL	7.6	18.5	20.6	55.6	55	0.6	4	1

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.6	2	●	MVS0360X02S040PL	7.8	20.6	20.6	55.6	55	0.6	4	1
3.7	2	●	MVS0370X02S040PL	8.0	20.6	20.6	55.6	55	0.6	4	1
3.8	2	●	MVS0380X02S040PL	8.2	20.6	20.6	55.6	55	0.6	4	1
3.9	2	●	MVS0390X02S040PL	8.4	20.6	20.6	55.6	55	0.6	4	1
4.0	2	●	MVS0400X02S040PL	8.6	20.6	20.6	55.6	55	0.6	4	2
4.1	2	●	MVS0410X02S050PL	8.8	22.6	24.6	62.6	62	0.6	5	1
4.2	2	●	MVS0420X02S050PL	9.1	22.7	24.7	62.7	62	0.7	5	1
4.3	2	●	MVS0430X02S050PL	9.3	22.7	24.7	62.7	62	0.7	5	1
4.4	2	●	MVS0440X02S050PL	9.5	22.7	24.7	62.7	62	0.7	5	1
4.5	2	●	MVS0450X02S050PL	9.7	22.7	24.7	62.7	62	0.7	5	1
4.6	2	●	MVS0460X02S050PL	9.9	24.7	24.7	62.7	62	0.7	5	2
4.7	2	●	MVS0470X02S050PL	10.1	24.7	24.7	62.7	62	0.7	5	2
4.8	2	●	MVS0480X02S050PL	10.4	24.8	24.8	62.8	62	0.8	5	2
4.9	2	●	MVS0490X02S050PL	10.6	24.8	24.8	62.8	62	0.8	5	2
5.0	2	●	MVS0500X02S050PL	10.8	24.8	24.8	62.8	62	0.8	5	2
5.1	2	●	MVS0510X02S060PL	11.0	26.8	28.8	66.8	66	0.8	6	2
5.2	2	●	MVS0520X02S060PL	11.2	26.8	28.8	66.8	66	0.8	6	2
5.3	2	●	MVS0530X02S060PL	11.4	26.8	28.8	66.8	66	0.8	6	2
5.4	2	●	MVS0540X02S060PL	11.7	26.9	28.9	66.9	66	0.9	6	2
5.5	2	●	MVS0550X02S060PL	11.9	26.9	28.9	66.9	66	0.9	6	2
5.6	2	●	MVS0560X02S060PL	12.1	28.9	28.9	66.9	66	0.9	6	2
5.7	2	●	MVS0570X02S060PL	12.3	28.9	28.9	66.9	66	0.9	6	2
5.8	2	●	MVS0580X02S060PL	12.5	28.9	28.9	66.9	66	0.9	6	2
5.9	2	●	MVS0590X02S060PL	12.7	28.9	28.9	66.9	66	0.9	6	2
6.0	2	●	MVS0600X02S060PL	12.9	28.9	28.9	66.9	66	0.9	6	2
6.1	2	●	MVS0610X02S070PL	13.2	32.0	35.0	75.0	74	1.0	7	2

注1) ø5mm以下钻头的冷却孔形状为圆形

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.2	2	●	MVS0620X02S070PL	13.4	32.0	35.0	75.0	74	1.0	7	2
6.3	2	●	MVS0630X02S070PL	13.6	32.0	35.0	75.0	74	1.0	7	2
6.4	2	●	MVS0640X02S070PL	13.8	32.0	35.0	75.0	74	1.0	7	2
6.5	2	●	MVS0650X02S070PL	14.0	32.0	35.0	75.0	74	1.0	7	2
6.6	2	●	MVS0660X02S070PL	14.2	35.0	35.0	75.0	74	1.0	7	2
6.7	2	●	MVS0670X02S070PL	14.5	35.1	35.1	75.1	74	1.1	7	2
6.8	2	●	MVS0680X02S070PL	14.7	35.1	35.1	75.1	74	1.1	7	2
6.9	2	●	MVS0690X02S070PL	14.9	35.1	35.1	75.1	74	1.1	7	2
7.0	2	●	MVS0700X02S070PL	15.1	35.1	35.1	75.1	74	1.1	7	2
7.1	2	●	MVS0710X02S080PL	15.3	35.1	38.1	80.1	79	1.1	8	2
7.2	2	●	MVS0720X02S080PL	15.5	35.1	38.1	80.1	79	1.1	8	2
7.3	2	●	MVS0730X02S080PL	15.8	35.2	38.2	80.2	79	1.2	8	2
7.4	2	●	MVS0740X02S080PL	16.0	35.2	38.2	80.2	79	1.2	8	2
7.5	2	●	MVS0750X02S080PL	16.2	35.2	38.2	80.2	79	1.2	8	2
7.6	2	●	MVS0760X02S080PL	16.4	38.2	38.2	80.2	79	1.2	8	2
7.7	2	●	MVS0770X02S080PL	16.6	38.2	38.2	80.2	79	1.2	8	2
7.8	2	●	MVS0780X02S080PL	16.8	38.2	38.2	80.2	79	1.2	8	2
7.9	2	●	MVS0790X02S080PL	17.0	38.2	38.2	80.2	79	1.2	8	2
8.0	2	●	MVS0800X02S080PL	17.3	38.3	38.3	80.3	79	1.3	8	2
8.1	2	●	MVS0810X02S090PL	17.5	38.3	41.3	85.3	84	1.3	9	2
8.2	2	●	MVS0820X02S090PL	17.7	38.3	41.3	85.3	84	1.3	9	2
8.3	2	●	MVS0830X02S090PL	17.9	38.3	41.3	85.3	84	1.3	9	2
8.4	2	●	MVS0840X02S090PL	18.1	38.3	41.3	85.3	84	1.3	9	2
8.5	2	●	MVS0850X02S090PL	18.3	38.3	41.3	85.3	84	1.3	9	2
8.6	2	●	MVS0860X02S090PL	18.6	41.4	41.4	85.4	84	1.4	9	2
8.7	2	●	MVS0870X02S090PL	18.8	41.4	41.4	85.4	84	1.4	9	2
8.8	2	●	MVS0880X02S090PL	19.0	41.4	41.4	85.4	84	1.4	9	2
8.9	2	●	MVS0890X02S090PL	19.2	41.4	41.4	85.4	84	1.4	9	2
9.0	2	●	MVS0900X02S090PL	19.4	41.4	41.4	85.4	84	1.4	9	2
9.1	2	●	MVS0910X02S100PL	19.6	41.4	44.4	90.4	89	1.4	10	2
9.2	2	●	MVS0920X02S100PL	19.9	41.5	44.5	90.5	89	1.5	10	2
9.3	2	●	MVS0930X02S100PL	20.1	41.5	44.5	90.5	89	1.5	10	2
9.4	2	●	MVS0940X02S100PL	20.3	41.5	44.5	90.5	89	1.5	10	2
9.5	2	●	MVS0950X02S100PL	20.5	41.5	44.5	90.5	89	1.5	10	2
9.6	2	●	MVS0960X02S100PL	20.7	44.5	44.5	90.5	89	1.5	10	2
9.7	2	●	MVS0970X02S100PL	20.9	44.5	44.5	90.5	89	1.5	10	2
9.8	2	●	MVS0980X02S100PL	21.1	44.5	44.5	90.5	89	1.5	10	2
9.9	2	●	MVS0990X02S100PL	21.4	44.6	44.6	90.6	89	1.6	10	2
10.0	2	●	MVS1000X02S100PL	21.6	44.6	44.6	90.6	89	1.6	10	2
10.1	2	●	MVS1010X02S110PL	21.8	44.6	47.6	96.6	95	1.6	11	2
10.2	2	●	MVS1020X02S110PL	22.0	44.6	47.6	96.6	95	1.6	11	2
10.3	2	●	MVS1030X02S110PL	22.2	44.6	47.6	96.6	95	1.6	11	2
10.4	2	●	MVS1040X02S110PL	22.4	44.6	47.6	96.6	95	1.6	11	2
10.5	2	●	MVS1050X02S110PL	22.7	44.7	47.7	96.7	95	1.7	11	2
10.6	2	●	MVS1060X02S110PL	22.9	48.7	48.7	96.7	95	1.7	11	2
10.7	2	●	MVS1070X02S110PL	23.1	48.7	48.7	96.7	95	1.7	11	2
10.8	2	●	MVS1080X02S110PL	23.3	48.7	48.7	96.7	95	1.7	11	2
10.9	2	●	MVS1090X02S110PL	23.5	48.7	48.7	96.7	95	1.7	11	2

注1) ø5mm以下钻头的冷却孔形状为圆形

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
11.0	2	●	MVS1100X02S110PL	23.7	48.7	48.7	96.7	95	1.7	11	2
11.1	2	●	MVS1110X02S120PL	23.9	48.7	51.7	96.7	95	1.7	12	2
11.2	2	●	MVS1120X02S120PL	24.2	48.8	51.8	96.8	95	1.8	12	2
11.3	2	●	MVS1130X02S120PL	24.4	48.8	51.8	96.8	95	1.8	12	2
11.4	2	●	MVS1140X02S120PL	24.6	48.8	51.8	96.8	95	1.8	12	2
11.5	2	●	MVS1150X02S120PL	24.8	48.8	51.8	96.8	95	1.8	12	2
11.6	2	●	MVS1160X02S120PL	25.0	48.8	48.8	96.8	95	1.8	12	2
11.7	2	●	MVS1170X02S120PL	25.2	48.8	48.8	96.8	95	1.8	12	2
11.8	2	●	MVS1180X02S120PL	25.5	48.9	48.9	96.9	95	1.9	12	2
11.9	2	●	MVS1190X02S120PL	25.7	48.9	48.9	96.9	95	1.9	12	2
12.0	2	●	MVS1200X02S120PL	25.9	48.9	48.9	96.9	95	1.9	12	2
12.1	2	●	MVS1210X02S130PL	26.1	52.9	55.9	103.9	102	1.9	13	2
12.2	2	●	MVS1220X02S130PL	26.3	52.9	55.9	103.9	102	1.9	13	2
12.3	2	●	MVS1230X02S130PL	26.5	52.9	55.9	103.9	102	1.9	13	2
12.4	2	●	MVS1240X02S130PL	26.8	53.0	56.0	104.0	102	2.0	13	2
12.5	2	●	MVS1250X02S130PL	27.0	53.0	56.0	104.0	102	2.0	13	2
12.6	2	●	MVS1260X02S130PL	27.2	53.0	53.0	104.0	102	2.0	13	2
12.7	2	●	MVS1270X02S130PL	27.4	53.0	53.0	104.0	102	2.0	13	2
12.8	2	●	MVS1280X02S130PL	27.6	53.0	53.0	104.0	102	2.0	13	2
12.9	2	●	MVS1290X02S130PL	27.8	53.0	53.0	104.0	102	2.0	13	2
13.0	2	●	MVS1300X02S130PL	28.0	53.0	53.0	104.0	102	2.0	13	2
13.1	2	●	MVS1310X02S140PL	28.3	56.1	59.1	109.1	107	2.1	14	2
13.2	2	●	MVS1320X02S140PL	28.5	56.1	59.1	109.1	107	2.1	14	2
13.3	2	●	MVS1330X02S140PL	28.7	56.1	59.1	109.1	107	2.1	14	2
13.4	2	●	MVS1340X02S140PL	28.9	56.1	59.1	109.1	107	2.1	14	2
13.5	2	●	MVS1350X02S140PL	29.1	56.1	59.1	109.1	107	2.1	14	2
13.6	2	●	MVS1360X02S140PL	29.3	56.1	56.1	109.1	107	2.1	14	2
13.7	2	●	MVS1370X02S140PL	29.6	56.2	56.2	109.2	107	2.2	14	2
13.8	2	●	MVS1380X02S140PL	29.8	56.2	56.2	109.2	107	2.2	14	2
13.9	2	●	MVS1390X02S140PL	30.0	56.2	56.2	109.2	107	2.2	14	2
14.0	2	●	MVS1400X02S140PL	30.2	56.2	56.2	109.2	107	2.2	14	2

钻孔 [整体硬质合金钻头]

MVS 小微型
WSTAR 钻头

- 排屑性与切削刃强度优异的直线刃型
- 可实现小直径钻头的最佳平衡及高精度的双重棱边



P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属	耐热合金	

内冷却



$1 \leq DC \leq 2.9$
0 -0.014
DCON=3
$h6$ 0 -0.006

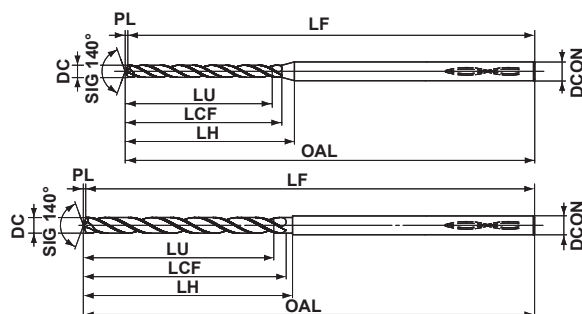


图1

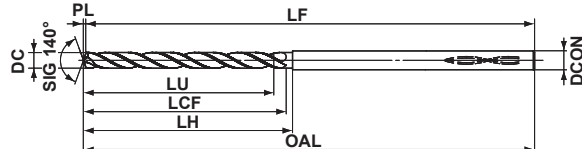


图2

DC (mm)	钻 削 孔 深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
1.0	7	●	MVS0100X07S030	7.2	10.2	14.2	55.2	55	0.2	3	1
1.0	12	●	MVS0100X12S030	12.2	15.2	19.2	55.2	55	0.2	3	1
1.0	20	●	MVS0100X20S030	20.2	24.2	28.2	60.2	60	0.2	3	1
1.0	25	●	MVS0100X25S030	25.2	28.2	32.2	66.2	66	0.2	3	1
1.0	30	●	MVS0100X30S030	30.2	33.2	37.2	72.2	72	0.2	3	1
1.1	7	●	MVS0110X07S030	7.9	11.2	15.2	55.2	55	0.2	3	1
1.1	12	●	MVS0110X12S030	13.4	17.2	21.2	55.2	55	0.2	3	1
1.1	20	●	MVS0110X20S030	22.2	25.2	29.2	60.2	60	0.2	3	1
1.1	25	●	MVS0110X25S030	27.7	31.2	34.2	66.2	66	0.2	3	1
1.1	30	●	MVS0110X30S030	33.2	36.2	40.2	72.2	72	0.2	3	1
1.2	7	●	MVS0120X07S030	8.6	12.2	15.2	55.2	55	0.2	3	1
1.2	12	●	MVS0120X12S030	14.6	18.2	21.2	55.2	55	0.2	3	1
1.2	20	●	MVS0120X20S030	24.2	28.2	31.2	60.2	60	0.2	3	1
1.2	25	●	MVS0120X25S030	30.2	34.2	37.2	66.2	66	0.2	3	1
1.2	30	●	MVS0120X30S030	36.2	40.2	43.2	72.2	72	0.2	3	1
1.3	7	●	MVS0130X07S030	9.3	13.2	16.2	55.2	55	0.2	3	1
1.3	12	●	MVS0130X12S030	15.8	20.2	23.2	55.2	55	0.2	3	1
1.3	20	●	MVS0130X20S030	26.2	30.2	33.2	68.2	68	0.2	3	1
1.3	25	●	MVS0130X25S030	32.7	36.2	40.2	74.2	74	0.2	3	1
1.3	30	●	MVS0130X30S030	39.2	43.2	46.2	82.2	82	0.2	3	1
1.4	7	●	MVS0140X07S030	10.1	14.3	17.3	55.3	55	0.3	3	1
1.4	12	●	MVS0140X12S030	17.1	21.3	24.3	55.3	55	0.3	3	1
1.4	20	●	MVS0140X20S030	28.3	32.3	35.3	68.3	68	0.3	3	1
1.4	25	●	MVS0140X25S030	35.3	39.3	42.3	74.3	74	0.3	3	1
1.4	30	●	MVS0140X30S030	42.3	46.3	49.3	82.3	82	0.3	3	1
1.5	7	●	MVS0150X07S030	10.8	15.3	18.3	55.3	55	0.3	3	1
1.5	12	●	MVS0150X12S030	18.3	23.3	26.3	55.3	55	0.3	3	1
1.5	20	●	MVS0150X20S030	30.3	35.3	37.3	68.3	68	0.3	3	1
1.5	25	●	MVS0150X25S030	37.8	42.3	45.3	74.3	74	0.3	3	1
1.5	30	●	MVS0150X30S030	45.3	50.3	52.3	82.3	82	0.3	3	1

DC (mm)	钻 削 孔 深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
1.6	7	●	MVS0160X07S030	11.5	16.3	19.3	68.3	68	0.3	3	1
1.6	12	●	MVS0160X12S030	19.5	24.3	27.3	68.3	68	0.3	3	1
1.6	20	●	MVS0160X20S030	32.3	37.3	39.3	78.3	78	0.3	3	1
1.6	25	●	MVS0160X25S030	40.3	45.3	47.3	86.3	86	0.3	3	1
1.6	30	●	MVS0160X30S030	48.3	53.3	55.3	95.3	95	0.3	3	1
1.7	7	●	MVS0170X07S030	12.2	17.3	19.3	68.3	68	0.3	3	1
1.7	12	●	MVS0170X12S030	20.7	26.3	28.3	68.3	68	0.3	3	1
1.7	20	●	MVS0170X20S030	34.3	39.3	42.3	78.3	78	0.3	3	1
1.7	25	●	MVS0170X25S030	42.8	48.3	50.3	86.3	86	0.3	3	1
1.7	30	●	MVS0170X30S030	51.3	56.3	59.3	95.3	95	0.3	3	1
1.8	7	●	MVS0180X07S030	12.9	18.3	20.3	68.3	68	0.3	3	1
1.8	12	●	MVS0180X12S030	21.9	27.3	29.3	68.3	68	0.3	3	1
1.8	20	●	MVS0180X20S030	36.3	41.3	44.3	84.3	84	0.3	3	1
1.8	25	●	MVS0180X25S030	45.3	50.3	53.3	94.3	94	0.3	3	1
1.8	30	●	MVS0180X30S030	54.3	59.3	62.3	102.3	102	0.3	3	1
1.9	7	●	MVS0190X07S030	13.6	19.3	21.3	68.3	68	0.3	3	1
1.9	12	●	MVS0190X12S030	23.1	29.3	31.3	68.3	68	0.3	3	1
1.9	20	●	MVS0190X20S030	38.3	44.3	46.3	84.3	84	0.3	3	1
1.9	25	●	MVS0190X25S030	47.8	53.3	55.3	94.3	94	0.3	3	1
1.9	30	●	MVS0190X30S030	57.3	63.3	65.3	102.3	102	0.3	3	1
2.0	7	●	MVS0200X07S030	14.4	20.4	22.4	68.4	68	0.4	3	1
2.0	12	●	MVS0200X12S030	24.4	30.4	32.4	68.4	68	0.4	3	1
2.0	20	●	MVS0200X20S030	40.4	46.4	48.4	84.4	84	0.4	3	1
2.0	25	●	MVS0200X25S030	50.4	56.4	58.4	94.4	94	0.4	3	1
2.0	30	●	MVS0200X30S030	60.4	66.4	68.4	102.4	102	0.4	3	1
2.1	7	●	MVS0210X07S030	15.1	21.4	23.4	74.4	74	0.4	3	1
2.1	12	●	MVS0210X12S030	25.6	32.4	34.4	74.4	74	0.4	3	1
2.1	20	●	MVS0210X20S030	42.4	48.4	50.4	94.4	94	0.4	3	1
2.1	25	●	MVS0210X25S030	52.9	59.4	60.4	107.4	107	0.4	3	1
2.1	30	●	MVS0210X30S030	63.4	69.4	71.4	118.4	118	0.4	3	1

P

钻头

DC	钻削孔深 (mm)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
2.2	7	●	MVS0220X07S030	15.8	22.4	23.4	74.4	74	0.4	3	1
2.2	12	●	MVS0220X12S030	26.8	33.4	34.4	74.4	74	0.4	3	1
2.2	20	●	MVS0220X20S030	44.4	51.4	52.4	94.4	94	0.4	3	1
2.2	25	●	MVS0220X25S030	55.4	62.4	63.4	107.4	107	0.4	3	1
2.2	30	●	MVS0220X30S030	66.4	73.4	74.4	118.4	118	0.4	3	1
2.3	7	●	MVS0230X07S030	16.5	23.4	24.4	74.4	74	0.4	3	1
2.3	12	●	MVS0230X12S030	28.0	35.4	36.4	74.4	74	0.4	3	1
2.3	20	●	MVS0230X20S030	46.4	53.4	54.4	94.4	94	0.4	3	1
2.3	25	●	MVS0230X25S030	57.9	64.4	66.4	107.4	107	0.4	3	1
2.3	30	●	MVS0230X30S030	69.4	76.4	77.4	118.4	118	0.4	3	1
2.4	7	●	MVS0240X07S030	17.2	24.4	25.4	74.4	74	0.4	3	1
2.4	12	●	MVS0240X12S030	29.2	36.4	37.4	74.4	74	0.4	3	1
2.4	20	●	MVS0240X20S030	48.4	55.4	56.4	94.4	94	0.4	3	1
2.4	25	●	MVS0240X25S030	60.4	67.4	68.4	107.4	107	0.4	3	1
2.4	30	●	MVS0240X30S030	72.4	79.4	80.4	118.4	118	0.4	3	1
2.5	7	●	MVS0250X07S030	18.0	25.5	26.5	74.5	74	0.5	3	1
2.5	12	●	MVS0250X12S030	30.5	38.5	39.5	74.5	74	0.5	3	1
2.5	20	●	MVS0250X20S030	50.5	58.5	59.5	94.5	94	0.5	3	1
2.5	25	●	MVS0250X25S030	63.0	70.5	71.5	107.5	107	0.5	3	1
2.5	30	●	MVS0250X30S030	75.5	83.5	84.5	118.5	118	0.5	3	1
2.6	7	●	MVS0260X07S030	18.7	26.5	26.5	81.5	81	0.5	3	2
2.6	12	●	MVS0260X12S030	31.7	39.5	39.5	81.5	81	0.5	3	2
2.6	20	●	MVS0260X20S030	52.5	60.5	60.5	103.5	103	0.5	3	2
2.6	25	●	MVS0260X25S030	65.5	73.5	73.5	117.5	117	0.5	3	2
2.6	30	●	MVS0260X30S030	78.5	86.5	86.5	132.5	132	0.5	3	2
2.7	7	●	MVS0270X07S030	19.4	27.5	27.5	81.5	81	0.5	3	2
2.7	12	●	MVS0270X12S030	32.9	41.5	41.5	81.5	81	0.5	3	2
2.7	20	●	MVS0270X20S030	54.5	62.5	62.5	103.5	103	0.5	3	2
2.7	25	●	MVS0270X25S030	68.0	76.5	76.5	117.5	117	0.5	3	2
2.7	30	●	MVS0270X30S030	81.5	89.5	89.5	132.5	132	0.5	3	2
2.8	7	●	MVS0280X07S030	20.1	28.5	28.5	81.5	81	0.5	3	2
2.8	12	●	MVS0280X12S030	34.1	42.5	42.5	81.5	81	0.5	3	2
2.8	20	●	MVS0280X20S030	56.5	64.5	64.5	103.5	103	0.5	3	2
2.8	25	●	MVS0280X25S030	70.5	78.5	78.5	117.5	117	0.5	3	2
2.8	30	●	MVS0280X30S030	84.5	92.5	92.5	132.5	132	0.5	3	2
2.9	7	●	MVS0290X07S030	20.8	29.5	29.5	81.5	81	0.5	3	2
2.9	12	●	MVS0290X12S030	35.3	44.5	44.5	81.5	81	0.5	3	2
2.9	20	●	MVS0290X20S030	58.5	67.5	67.5	103.5	103	0.5	3	2
2.9	25	●	MVS0290X25S030	73.0	81.5	81.5	117.5	117	0.5	3	2
2.9	30	●	MVS0290X30S030	87.5	96.5	96.5	132.5	132	0.5	3	2

钻孔 [整体硬质合金钻头]

硬质合金

MVS
WSTAR钻头

- PVD涂层超硬材料DP1020在广泛的被切削材料中实现了长寿命
- 采用独特TRI-cooling冷却孔技术,高效率加工成为可能



P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属	耐热合金	

内冷却



L/D	DC=3	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
3,5,8	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
L/D ≥ 10	-0.017 -0.031	-0.025 -0.043	-0.033 -0.055	-0.041 -0.068	-
L/D	DCON=3	3<DCON≤6	6<DCON≤10	10<DCON≤18	18<DCON≤20
h6	0 -0.006	0 -0.008	0 -0.009	0 -0.011	0 -0.013

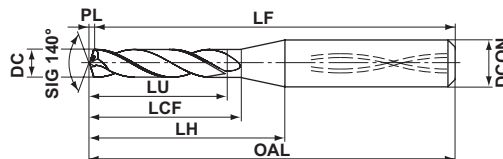


图1

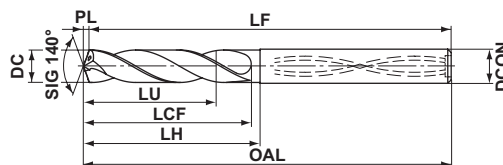


图2

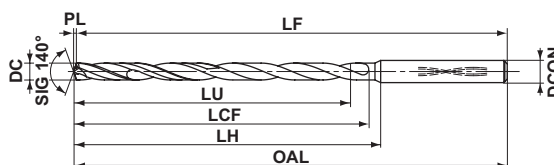


图3

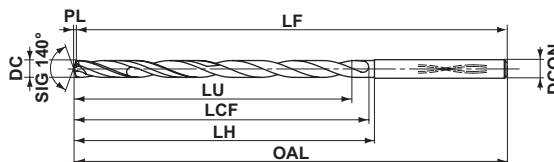


图4

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.0	3	●	MVS0300X03S030	9.5	21.5	21.5	72.5	72	0.5	3	2
3.0	3	●	MVS0300X03S060	9.5	21.5	24.7	72.5	72	0.5	6	1
3.0	5	●	MVS0300X05S030	15.5	28.5	28.5	81.5	81	0.5	3	2
3.0	5	●	MVS0300X05S060	15.5	28.5	31.7	81.5	81	0.5	6	1
3.0	8	●	MVS0300X08S030	24.5	35.5	35.5	81.5	81	0.5	3	2
3.0	8	●	MVS0300X08S060	24.5	35.5	38.7	81.5	81	0.5	6	1
3.0	10	●	MVS0300X10S030	30.5	39.5	42.5	90.5	90	0.5	3	3
3.0	15	●	MVS0300X15S030	45.5	54.5	57.5	105.5	105	0.5	3	3
3.0	20	●	MVS0300X20S030	60.5	69.5	72.5	120.5	120	0.5	3	3
3.0	25	●	MVS0300X25S030	75.5	84.5	87.5	135.5	135	0.5	3	3
3.0	30	●	MVS0300X30S030	90.5	99.5	102.5	150.5	150	0.5	3	3
3.0	35	●	MVS0300X35S030	105.5	115.5	118.5	166.5	166	0.5	3	3
3.0	40	●	MVS0300X40S030	120.5	130.5	133.5	181.5	181	0.5	3	3
3.1	3	●	MVS0310X03S040	9.9	21.6	23.6	76.6	76	0.6	4	2
3.1	3	●	MVS0310X03S060	9.9	21.6	24.7	76.6	76	0.6	6	1
3.1	5	●	MVS0310X05S040	16.1	32.6	32.6	87.6	87	0.6	4	2
3.1	5	●	MVS0310X05S060	16.1	32.6	35.7	87.6	87	0.6	6	1
3.1	8	●	MVS0310X08S040	25.4	41.6	41.6	87.6	87	0.6	4	2
3.1	8	●	MVS0310X08S060	25.4	41.6	44.7	87.6	87	0.6	6	1
3.1	10	●	MVS0310X10S040	31.6	46.6	49.6	97.6	97	0.6	4	3
3.1	15	●	MVS0310X15S040	47.1	63.6	66.6	114.6	114	0.6	4	3
3.1	20	●	MVS0310X20S040	62.6	81.6	84.6	132.6	132	0.6	4	3

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.1	25	●	MVS0310X25S040	78.1	98.6	101.6	149.6	149	0.6	4	3
3.1	30	●	MVS0310X30S040	93.6	116.6	119.6	167.6	167	0.6	4	3
3.1	35	□	MVS0310X35S040	109.1	134.6	137.6	185.6	185	0.6	4	3
3.1	40	□	MVS0310X40S040	124.6	150.6	153.6	201.6	201	0.6	4	3
3.2	3	●	MVS0320X03S040	10.2	21.6	23.6	76.6	76	0.6	4	2
3.2	3	●	MVS0320X03S060	10.2	21.6	24.6	76.6	76	0.6	6	1
3.2	5	●	MVS0320X05S040	16.6	32.6	32.6	87.6	87	0.6	4	2
3.2	5	●	MVS0320X05S060	16.6	32.6	35.6	87.6	87	0.6	6	1
3.2	8	●	MVS0320X08S040	26.2	41.6	41.6	87.6	87	0.6	4	2
3.2	8	●	MVS0320X08S060	26.2	41.6	44.6	87.6	87	0.6	6	1
3.2	10	●	MVS0320X10S040	32.6	46.6	49.6	97.6	97	0.6	4	3
3.2	15	●	MVS0320X15S040	48.6	63.6	66.6	114.6	114	0.6	4	3
3.2	20	●	MVS0320X20S040	64.6	81.6	84.6	132.6	132	0.6	4	3
3.2	25	●	MVS0320X25S040	80.6	98.6	101.6	149.6	149	0.6	4	3
3.2	30	●	MVS0320X30S040	96.6	116.6	119.6	167.6	167	0.6	4	3
3.2	35	□	MVS0320X35S040	112.6	134.6	137.6	185.6	185	0.6	4	3
3.2	40	□	MVS0320X40S040	128.6	150.6	153.6	201.6	201	0.6	4	3
3.3	3	●	MVS0330X03S040	10.5	21.6	23.6	76.6	76	0.6	4	2
3.3	3	●	MVS0330X03S060	10.5	21.6	24.5	76.6	76	0.6	6	1
3.3	5	●	MVS0330X05S040	17.1	32.6	32.6	87.6	87	0.6	4	2
3.3	5	●	MVS0330X05S060	17.1	32.6	35.5	87.6	87	0.6	6	1
3.3	8	●	MVS0330X08S040	27.0	41.6	41.6	87.6	87	0.6	4	2

注1) ø5mm以下钻头的冷却孔形状为圆形 (L/D=3,5,8不到ø6mm)

●: 标准库存品 □: 预订生产品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.3	8	●	MVS0330X08S060	27.0	41.6	44.5	87.6	87	0.6	6	1
3.3	10	●	MVS0330X10S040	33.6	46.6	49.6	97.6	97	0.6	4	3
3.3	15	●	MVS0330X15S040	50.1	63.6	66.6	114.6	114	0.6	4	3
3.3	20	●	MVS0330X20S040	66.6	81.6	84.6	132.6	132	0.6	4	3
3.3	25	●	MVS0330X25S040	83.1	98.6	101.6	149.6	149	0.6	4	3
3.3	30	●	MVS0330X30S040	99.6	116.6	119.6	167.6	167	0.6	4	3
3.3	35	□	MVS0330X35S040	116.1	134.6	137.6	185.6	185	0.6	4	3
3.3	40	□	MVS0330X40S040	132.6	150.6	153.6	201.6	201	0.6	4	3
3.4	3	●	MVS0340X03S040	10.8	21.6	23.6	76.6	76	0.6	4	2
3.4	3	●	MVS0340X03S060	10.8	21.6	24.4	76.6	76	0.6	6	1
3.4	5	●	MVS0340X05S040	17.6	32.6	32.6	87.6	87	0.6	4	2
3.4	5	●	MVS0340X05S060	17.6	32.6	35.4	87.6	87	0.6	6	1
3.4	8	●	MVS0340X08S040	27.8	41.6	41.6	87.6	87	0.6	4	2
3.4	8	●	MVS0340X08S060	27.8	41.6	44.4	87.6	87	0.6	6	1
3.4	10	●	MVS0340X10S040	34.6	46.6	49.6	97.6	97	0.6	4	3
3.4	15	●	MVS0340X15S040	51.6	63.6	66.6	114.6	114	0.6	4	3
3.4	20	●	MVS0340X20S040	68.6	81.6	84.6	132.6	132	0.6	4	3
3.4	25	●	MVS0340X25S040	85.6	98.6	101.6	149.6	149	0.6	4	3
3.4	30	●	MVS0340X30S040	102.6	116.6	119.6	167.6	167	0.6	4	3
3.4	35	□	MVS0340X35S040	119.6	134.6	137.6	185.6	185	0.6	4	3
3.4	40	□	MVS0340X40S040	136.6	150.6	153.6	201.6	201	0.6	4	3
3.5	3	●	MVS0350X03S040	11.1	21.6	23.6	76.6	76	0.6	4	2
3.5	3	●	MVS0350X03S060	11.1	21.6	24.3	76.6	76	0.6	6	1
3.5	5	●	MVS0350X05S040	18.1	32.6	32.6	87.6	87	0.6	4	2
3.5	5	●	MVS0350X05S060	18.1	32.6	35.3	87.6	87	0.6	6	1
3.5	8	●	MVS0350X08S040	28.6	41.6	41.6	87.6	87	0.6	4	2
3.5	8	●	MVS0350X08S060	28.6	41.6	44.3	87.6	87	0.6	6	1
3.5	10	●	MVS0350X10S040	35.6	46.6	49.6	97.6	97	0.6	4	3
3.5	15	●	MVS0350X15S040	53.1	63.6	66.6	114.6	114	0.6	4	3
3.5	20	●	MVS0350X20S040	70.6	81.6	84.6	132.6	132	0.6	4	3
3.5	25	●	MVS0350X25S040	88.1	98.6	101.6	149.6	149	0.6	4	3
3.5	30	●	MVS0350X30S040	105.6	116.6	119.6	167.6	167	0.6	4	3
3.5	35	●	MVS0350X35S040	123.1	134.6	137.6	185.6	185	0.6	4	3
3.5	40	●	MVS0350X40S040	140.6	150.6	153.6	201.6	201	0.6	4	3
3.6	3	●	MVS0360X03S040	11.5	23.7	23.7	80.7	80	0.7	4	2
3.6	3	●	MVS0360X03S060	11.5	23.7	26.3	80.7	80	0.7	6	1
3.6	5	●	MVS0360X05S040	18.7	36.7	36.7	92.7	92	0.7	4	2
3.6	5	●	MVS0360X05S060	18.7	36.7	39.3	92.7	92	0.7	6	1
3.6	8	●	MVS0360X08S040	29.5	46.7	46.7	92.7	92	0.7	4	2
3.6	8	●	MVS0360X08S060	29.5	46.7	49.3	92.7	92	0.7	6	1
3.6	10	●	MVS0360X10S040	36.7	52.7	55.7	103.7	103	0.7	4	3
3.6	15	●	MVS0360X15S040	54.7	72.7	75.7	123.7	123	0.7	4	3
3.6	20	●	MVS0360X20S040	72.7	92.7	95.7	143.7	143	0.7	4	3
3.6	25	●	MVS0360X25S040	90.7	112.7	115.7	163.7	163	0.7	4	3
3.6	30	●	MVS0360X30S040	108.7	132.7	135.7	183.7	183	0.7	4	3
3.6	35	□	MVS0360X35S040	126.7	152.7	155.7	203.7	203	0.7	4	3
3.6	40	□	MVS0360X40S040	144.7	172.7	175.7	223.7	223	0.7	4	3
3.7	3	●	MVS0370X03S040	11.8	23.7	23.7	80.7	80	0.7	4	2

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.7	3	●	MVS0370X03S060	11.8	23.7	26.2	80.7	80	0.7	6	1
3.7	5	●	MVS0370X05S040	19.2	36.7	36.7	92.7	92	0.7	4	2
3.7	5	●	MVS0370X05S060	19.2	36.7	39.2	92.7	92	0.7	6	1
3.7	8	●	MVS0370X08S040	30.3	46.7	46.7	92.7	92	0.7	4	2
3.7	8	●	MVS0370X08S060	30.3	46.7	49.2	92.7	92	0.7	6	1
3.7	10	●	MVS0370X10S040	37.7	52.7	55.7	103.7	103	0.7	4	3
3.7	15	●	MVS0370X15S040	56.2	72.7	75.7	123.7	123	0.7	4	3
3.7	20	●	MVS0370X20S040	74.7	92.7	95.7	143.7	143	0.7	4	3
3.7	25	●	MVS0370X25S040	93.2	112.7	115.7	163.7	163	0.7	4	3
3.7	30	●	MVS0370X30S040	111.7	132.7	135.7	183.7	183	0.7	4	3
3.7	35	□	MVS0370X35S040	130.2	152.7	155.7	203.7	203	0.7	4	3
3.7	40	□	MVS0370X40S040	148.7	172.7	175.7	223.7	223	0.7	4	3
3.8	3	●	MVS0380X03S040	12.1	23.7	23.7	80.7	80	0.7	4	2
3.8	3	●	MVS0380X03S060	12.1	23.7	26.1	80.7	80	0.7	6	1
3.8	5	●	MVS0380X05S040	19.7	36.7	36.7	92.7	92	0.7	4	2
3.8	5	●	MVS0380X05S060	19.7	36.7	39.1	92.7	92	0.7	6	1
3.8	8	●	MVS0380X08S040	31.1	46.7	46.7	92.7	92	0.7	4	2
3.8	8	●	MVS0380X08S060	31.1	46.7	49.1	92.7	92	0.7	6	1
3.8	10	●	MVS0380X10S040	38.7	52.7	55.7	103.7	103	0.7	4	3
3.8	15	●	MVS0380X15S040	57.7	72.7	75.7	123.7	123	0.7	4	3
3.8	20	●	MVS0380X20S040	76.7	92.7	95.7	143.7	143	0.7	4	3
3.8	25	●	MVS0380X25S040	95.7	112.7	115.7	163.7	163	0.7	4	3
3.8	30	●	MVS0380X30S040	114.7	132.7	135.7	183.7	183	0.7	4	3
3.8	35	□	MVS0380X35S040	133.7	152.7	155.7	203.7	203	0.7	4	3
3.8	40	□	MVS0380X40S040	152.7	172.7	175.7	223.7	223	0.7	4	3
3.9	3	●	MVS0390X03S040	12.4	23.7	23.7	80.7	80	0.7	4	2
3.9	3	●	MVS0390X03S060	12.4	23.7	26.0	80.7	80	0.7	6	1
3.9	5	●	MVS0390X05S040	20.2	36.7	36.7	92.7	92	0.7	4	2
3.9	5	●	MVS0390X05S060	20.2	36.7	39.0	92.7	92	0.7	6	1
3.9	8	●	MVS0390X08S040	31.9	46.7	46.7	92.7	92	0.7	4	2
3.9	8	●	MVS0390X08S060	31.9	46.7	49.0	92.7	92	0.7	6	1
3.9	10	●	MVS0390X10S040	39.7	52.7	55.7	103.7	103	0.7	4	3
3.9	15	●	MVS0390X15S040	59.2	72.7	75.7	123.7	123	0.7	4	3
3.9	20	●	MVS0390X20S040	78.7	92.7	95.7	143.7	143	0.7	4	3
3.9	25	●	MVS0390X25S040	98.2	112.7	115.7	163.7	163	0.7	4	3
3.9	30	●	MVS0390X30S040	117.7	132.7	135.7	183.7	183	0.7	4	3
3.9	35	□	MVS0390X35S040	137.2	152.7	155.7	203.7	203	0.7	4	3
3.9	40	□	MVS0390X40S040	156.7	172.7	175.7	223.7	223	0.7	4	3
4.0	3	●	MVS0400X03S040	12.7	23.7	23.7	80.7	80	0.7	4	2
4.0	3	●	MVS0400X03S060	12.7	23.7	25.8	80.7	80	0.7	6	1
4.0	5	●	MVS0400X05S040	20.7	36.7	36.7	92.7	92	0.7	4	2
4.0	5	●	MVS0400X05S060	20.7	36.7	38.8	92.7	92	0.7	6	1
4.0	8	●	MVS0400X08S040	32.7	46.7	46.7	92.7	92	0.7	4	2
4.0	8	●	MVS0400X08S060	32.7	46.7	48.8	92.7	92	0.7	6	1
4.0	10	●	MVS0400X10S040	40.7	52.7	55.7	103.7	103	0.7	4	3
4.0	15	●	MVS0400X15S040	60.7	72.7	75.7	123.7	123	0.7	4	3
4.0	20	●	MVS0400X20S040	80.7	92.7	95.7	143.7	143	0.7	4	3
4.0	25	●	MVS0400X25S040	100.7	112.7	115.7	163.7	163	0.7	4	3

P

钻头

钻孔 [整体硬质合金钻头]

MVS WSTAR钻头

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.0	30	●	MVS0400X30S040	120.7	132.7	135.7	183.7	183	0.7	4	3
4.0	35	●	MVS0400X35S040	140.7	152.7	155.7	203.7	203	0.7	4	3
4.0	40	●	MVS0400X40S040	160.7	172.7	175.7	223.7	223	0.7	4	3
4.1	3	●	MVS0410X03S050	13.0	25.7	25.7	86.7	86	0.7	5	2
4.1	3	●	MVS0410X03S060	13.0	25.7	27.7	86.7	86	0.7	6	1
4.1	5	●	MVS0410X05S050	21.2	40.7	40.7	100.7	100	0.7	5	2
4.1	5	●	MVS0410X05S060	21.2	40.7	42.7	100.7	100	0.7	6	1
4.1	8	●	MVS0410X08S050	33.5	52.7	52.7	100.7	100	0.7	5	2
4.1	8	●	MVS0410X08S060	33.5	52.7	54.7	100.7	100	0.7	6	1
4.1	10	●	MVS0410X10S050	41.7	59.7	62.7	112.7	112	0.7	5	3
4.1	15	●	MVS0410X15S050	62.2	81.7	84.7	134.7	134	0.7	5	3
4.1	20	●	MVS0410X20S050	82.7	104.7	107.7	157.7	157	0.7	5	3
4.1	25	●	MVS0410X25S050	103.2	126.7	129.7	179.7	179	0.7	5	3
4.1	30	●	MVS0410X30S050	123.7	149.7	152.7	202.7	202	0.7	5	3
4.1	35	□	MVS0410X35S050	144.2	171.7	174.7	224.7	224	0.7	5	3
4.1	40	□	MVS0410X40S050	164.7	195.7	198.7	248.7	248	0.7	5	3
4.2	3	●	MVS0420X03S050	13.4	25.8	25.8	86.8	86	0.8	5	2
4.2	3	●	MVS0420X03S060	13.4	25.8	27.7	86.8	86	0.8	6	1
4.2	5	●	MVS0420X05S050	21.8	40.8	40.8	100.8	100	0.8	5	2
4.2	5	●	MVS0420X05S060	21.8	40.8	42.7	100.8	100	0.8	6	1
4.2	8	●	MVS0420X08S050	34.4	52.8	52.8	100.8	100	0.8	5	2
4.2	8	●	MVS0420X08S060	34.4	52.8	54.7	100.8	100	0.8	6	1
4.2	10	●	MVS0420X10S050	42.8	59.8	62.8	112.8	112	0.8	5	3
4.2	15	●	MVS0420X15S050	63.8	81.8	84.8	134.8	134	0.8	5	3
4.2	20	●	MVS0420X20S050	84.8	104.8	107.8	157.8	157	0.8	5	3
4.2	25	●	MVS0420X25S050	105.8	126.8	129.8	179.8	179	0.8	5	3
4.2	30	●	MVS0420X30S050	126.8	149.8	152.8	202.8	202	0.8	5	3
4.2	35	□	MVS0420X35S050	147.8	171.8	174.8	224.8	224	0.8	5	3
4.2	40	□	MVS0420X40S050	168.8	195.8	198.8	248.8	248	0.8	5	3
4.3	3	●	MVS0430X03S050	13.7	25.8	25.8	86.8	86	0.8	5	2
4.3	3	●	MVS0430X03S060	13.7	25.8	27.6	86.8	86	0.8	6	1
4.3	5	●	MVS0430X05S050	22.3	40.8	40.8	100.8	100	0.8	5	2
4.3	5	●	MVS0430X05S060	22.3	40.8	42.6	100.8	100	0.8	6	1
4.3	8	●	MVS0430X08S050	35.2	52.8	52.8	100.8	100	0.8	5	2
4.3	8	●	MVS0430X08S060	35.2	52.8	54.6	100.8	100	0.8	6	1
4.3	10	●	MVS0430X10S050	43.8	59.8	62.8	112.8	112	0.8	5	3
4.3	15	●	MVS0430X15S050	65.3	81.8	84.8	134.8	134	0.8	5	3
4.3	20	●	MVS0430X20S050	86.8	104.8	107.8	157.8	157	0.8	5	3
4.3	25	●	MVS0430X25S050	108.3	126.8	129.8	179.8	179	0.8	5	3
4.3	30	●	MVS0430X30S050	129.8	149.8	152.8	202.8	202	0.8	5	3
4.3	35	□	MVS0430X35S050	151.3	171.8	174.8	224.8	224	0.8	5	3
4.3	40	□	MVS0430X40S050	172.8	195.8	198.8	248.8	248	0.8	5	3
4.4	3	●	MVS0440X03S050	14.0	25.8	25.8	86.8	86	0.8	5	2
4.4	3	●	MVS0440X03S060	14.0	25.8	27.5	86.8	86	0.8	6	1
4.4	5	●	MVS0440X05S050	22.8	40.8	40.8	100.8	100	0.8	5	2
4.4	5	●	MVS0440X05S060	22.8	40.8	42.5	100.8	100	0.8	6	1
4.4	8	●	MVS0440X08S050	36.0	52.8	52.8	100.8	100	0.8	5	2
4.4	8	●	MVS0440X08S060	36.0	52.8	54.5	100.8	100	0.8	6	1

注1) ø5mm以下钻头的冷却孔形状为圆形 (L/D=3,5,8不到ø6mm)

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.4	10	●	MVS0440X10S050	44.8	59.8	62.8	112.8	112	0.8	5	3
4.4	15	●	MVS0440X15S050	66.8	81.8	84.8	134.8	134	0.8	5	3
4.4	20	●	MVS0440X20S050	88.8	104.8	107.8	157.8	157	0.8	5	3
4.4	25	●	MVS0440X25S050	110.8	126.8	129.8	179.8	179	0.8	5	3
4.4	30	●	MVS0440X30S050	132.8	149.8	152.8	202.8	202	0.8	5	3
4.4	35	□	MVS0440X35S050	154.8	171.8	174.8	224.8	224	0.8	5	3
4.4	40	□	MVS0440X40S050	176.8	195.8	198.8	248.8	248	0.8	5	3
4.5	3	●	MVS0450X03S050	14.3	25.8	25.8	86.8	86	0.8	5	2
4.5	3	●	MVS0450X03S060	14.3	25.8	27.4	86.8	86	0.8	6	1
4.5	5	●	MVS0450X05S050	23.3	40.8	40.8	100.8	100	0.8	5	2
4.5	5	●	MVS0450X05S060	23.3	40.8	42.4	100.8	100	0.8	6	1
4.5	8	●	MVS0450X08S050	36.8	52.8	52.8	100.8	100	0.8	5	2
4.5	8	●	MVS0450X08S060	36.8	52.8	54.4	100.8	100	0.8	6	1
4.5	10	●	MVS0450X10S050	45.8	59.8	62.8	112.8	112	0.8	5	3
4.5	15	●	MVS0450X15S050	68.3	81.8	84.8	134.8	134	0.8	5	3
4.5	20	●	MVS0450X20S050	90.8	104.8	107.8	157.8	157	0.8	5	3
4.5	25	●	MVS0450X25S050	113.3	126.8	129.8	179.8	179	0.8	5	3
4.5	30	●	MVS0450X30S050	135.8	149.8	152.8	202.8	202	0.8	5	3
4.5	35	●	MVS0450X35S050	158.3	171.8	174.8	224.8	224	0.8	5	3
4.5	40	●	MVS0450X40S050	180.8	195.8	198.8	248.8	248	0.8	5	3
4.6	3	●	MVS0460X03S050	14.6	28.3	28.3	90.8	90	0.8	5	2
4.6	3	●	MVS0460X03S060	14.6	28.3	31.3	90.8	90	0.8	6	2
4.6	5	●	MVS0460X05S050	23.8	44.8	44.8	105.8	105	0.8	5	2
4.6	5	●	MVS0460X05S060	23.8	44.8	47.8	105.8	105	0.8	6	2
4.6	8	●	MVS0460X08S050	37.6	57.8	57.8	105.8	105	0.8	5	2
4.6	8	●	MVS0460X08S060	37.6	57.8	60.8	105.8	105	0.8	6	2
4.6	10	●	MVS0460X10S050	46.8	65.8	68.8	118.8	118	0.8	5	4
4.6	15	●	MVS0460X15S050	69.8	90.8	93.8	143.8	143	0.8	5	4
4.6	20	●	MVS0460X20S050	92.8	115.8	118.8	168.8	168	0.8	5	4
4.6	25	●	MVS0460X25S050	115.8	140.8	143.8	193.8	193	0.8	5	4
4.6	30	●	MVS0460X30S050	138.8	165.8	168.8	218.8	218	0.8	5	4
4.6	35	□	MVS0460X35S050	161.8	190.8	193.8	243.8	243	0.8	5	4
4.6	40	□	MVS0460X40S050	184.8	215.8	218.8	268.8	268	0.8	5	4
4.7	3	●	MVS0470X03S050	15.0	28.4	28.4	90.9	90	0.9	5	2
4.7	3	●	MVS0470X03S060	15.0	28.4	31.4	90.9	90	0.9	6	2
4.7	5	●	MVS0470X05S050	24.4	44.9	44.9	105.9	105	0.9	5	2
4.7	5	●	MVS0470X05S060	24.4	44.9	47.9	105.9	105	0.9	6	2
4.7	8	●	MVS0470X08S050	38.5	57.9	57.9	105.9	105	0.9	5	2
4.7	8	●	MVS0470X08S060	38.5	57.9	60.9	105.9	105	0.9	6	2
4.7	10	●	MVS0470X10S050	47.9	65.9	68.9	118.9	118	0.9	5	4
4.7	15	●	MVS0470X15S050	71.4	90.9	93.9	143.9	143	0.9	5	4
4.7	20	●	MVS0470X20S050	94.9	115.9	118.9	168.9	168	0.9	5	4
4.7	25	●	MVS0470X25S050	118.4	140.9	143.9	193.9	193	0.9	5	4
4.7	30	●	MVS0470X30S050	141.9	165.9	168.9	218.9	218	0.9	5	4
4.7	35	□	MVS0470X35S050	165.4	190.9	193.9	243.9	243	0.9	5	4
4.7	40	□	MVS0470X40S050	188.9	215.9	218.9	268.9	268	0.9	5	4
4.8	3	●	MVS0480X03S050	15.3	28.4	28.4	90.9	90	0.9	5	2
4.8	3	●	MVS0480X03S060	15.3	28.4	31.4	90.9	90	0.9	6	2

●：标准库存品 □：预订生产品

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.8	5	●	MVS0480X05S050	24.9	44.9	44.9	105.9	105	0.9	5	2
4.8	5	●	MVS0480X05S060	24.9	44.9	47.9	105.9	105	0.9	6	2
4.8	8	●	MVS0480X08S050	39.3	57.9	57.9	105.9	105	0.9	5	2
4.8	8	●	MVS0480X08S060	39.3	57.9	60.9	105.9	105	0.9	6	2
4.8	10	●	MVS0480X10S050	48.9	65.9	68.9	118.9	118	0.9	5	4
4.8	15	●	MVS0480X15S050	72.9	90.9	93.9	143.9	143	0.9	5	4
4.8	20	●	MVS0480X20S050	96.9	115.9	118.9	168.9	168	0.9	5	4
4.8	25	●	MVS0480X25S050	120.9	140.9	143.9	193.9	193	0.9	5	4
4.8	30	●	MVS0480X30S050	144.9	165.9	168.9	218.9	218	0.9	5	4
4.8	35	□	MVS0480X35S050	168.9	190.9	193.9	243.9	243	0.9	5	4
4.8	40	□	MVS0480X40S050	192.9	215.9	218.9	268.9	268	0.9	5	4
4.9	3	●	MVS0490X03S050	15.6	28.4	28.4	90.9	90	0.9	5	2
4.9	3	●	MVS0490X03S060	15.6	28.4	31.4	90.9	90	0.9	6	2
4.9	5	●	MVS0490X05S050	25.4	44.9	44.9	105.9	105	0.9	5	2
4.9	5	●	MVS0490X05S060	25.4	44.9	47.9	105.9	105	0.9	6	2
4.9	8	●	MVS0490X08S050	40.1	57.9	57.9	105.9	105	0.9	5	2
4.9	8	●	MVS0490X08S060	40.1	57.9	60.9	105.9	105	0.9	6	2
4.9	10	●	MVS0490X10S050	49.9	65.9	68.9	118.9	118	0.9	5	4
4.9	15	●	MVS0490X15S050	74.4	90.9	93.9	143.9	143	0.9	5	4
4.9	20	●	MVS0490X20S050	98.9	115.9	118.9	168.9	168	0.9	5	4
4.9	25	●	MVS0490X25S050	123.4	140.9	143.9	193.9	193	0.9	5	4
4.9	30	●	MVS0490X30S050	147.9	165.9	168.9	218.9	218	0.9	5	4
4.9	35	□	MVS0490X35S050	172.4	190.9	193.9	243.9	243	0.9	5	4
4.9	40	□	MVS0490X40S050	196.9	215.9	218.9	268.9	268	0.9	5	4
5.0	3	●	MVS0500X03S050	15.9	28.4	28.4	90.9	90	0.9	5	2
5.0	3	●	MVS0500X03S060	15.9	28.4	31.4	90.9	90	0.9	6	2
5.0	5	●	MVS0500X05S050	25.9	44.9	44.9	105.9	105	0.9	5	2
5.0	5	●	MVS0500X05S060	25.9	44.9	47.9	105.9	105	0.9	6	2
5.0	8	●	MVS0500X08S050	40.9	57.9	57.9	105.9	105	0.9	5	2
5.0	8	●	MVS0500X08S060	40.9	57.9	60.9	105.9	105	0.9	6	2
5.0	10	●	MVS0500X10S050	50.9	65.9	68.9	118.9	118	0.9	5	4
5.0	15	●	MVS0500X15S050	75.9	90.9	93.9	143.9	143	0.9	5	4
5.0	20	●	MVS0500X20S050	100.9	115.9	118.9	168.9	168	0.9	5	4
5.0	25	●	MVS0500X25S050	125.9	140.9	143.9	193.9	193	0.9	5	4
5.0	30	●	MVS0500X30S050	150.9	165.9	168.9	218.9	218	0.9	5	4
5.0	35	●	MVS0500X35S050	175.9	190.9	193.9	243.9	243	0.9	5	4
5.0	40	●	MVS0500X40S050	200.9	215.9	218.9	268.9	268	0.9	5	4
5.1	3	●	MVS0510X03S060	16.2	28.4	30.9	82.9	82	0.9	6	2
5.1	5	●	MVS0510X05S060	26.4	44.9	48.9	100.9	100	0.9	6	2
5.1	8	●	MVS0510X08S060	41.7	61.9	66.9	118.9	118	0.9	6	2
5.1	10	●	MVS0510X10S060	51.9	72.9	75.9	127.9	127	0.9	6	4
5.1	15	●	MVS0510X15S060	77.4	99.9	102.9	154.9	154	0.9	6	4
5.1	20	●	MVS0510X20S060	102.9	127.9	130.9	182.9	182	0.9	6	4
5.1	25	●	MVS0510X25S060	128.4	154.9	157.9	209.9	209	0.9	6	4
5.1	30	●	MVS0510X30S060	153.9	182.9	185.9	237.9	237	0.9	6	4
5.1	35	□	MVS0510X35S060	179.4	209.9	212.9	264.9	264	0.9	6	4
5.1	40	□	MVS0510X40S060	204.9	240.9	243.9	295.9	295	0.9	6	4
5.2	3	●	MVS0520X03S060	16.5	28.4	30.9	82.9	82	0.9	6	2

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
5.2	5	●	MVS0520X05S060	26.9	44.9	48.9	100.9	100	0.9	6	2
5.2	8	●	MVS0520X08S060	42.5	61.9	66.9	118.9	118	0.9	6	2
5.2	10	●	MVS0520X10S060	52.9	72.9	75.9	127.9	127	0.9	6	4
5.2	15	●	MVS0520X15S060	78.9	99.9	102.9	154.9	154	0.9	6	4
5.2	20	●	MVS0520X20S060	104.9	127.9	130.9	182.9	182	0.9	6	4
5.2	25	●	MVS0520X25S060	130.9	154.9	157.9	209.9	209	0.9	6	4
5.2	30	●	MVS0520X30S060	156.9	182.9	185.9	237.9	237	0.9	6	4
5.2	35	□	MVS0520X35S060	182.9	209.9	212.9	264.9	264	0.9	6	4
5.2	40	□	MVS0520X40S060	208.9	240.9	243.9	295.9	295	0.9	6	4
5.3	3	●	MVS0530X03S060	16.9	28.5	31.0	83.0	82	1.0	6	2
5.3	5	●	MVS0530X05S060	27.5	45.0	49.0	101.0	100	1.0	6	2
5.3	8	●	MVS0530X08S060	43.4	62.0	67.0	119.0	118	1.0	6	2
5.3	10	●	MVS0530X10S060	54.0	73.0	76.0	128.0	127	1.0	6	4
5.3	15	●	MVS0530X15S060	80.5	100.0	103.0	155.0	154	1.0	6	4
5.3	20	●	MVS0530X20S060	107.0	128.0	131.0	183.0	182	1.0	6	4
5.3	25	●	MVS0530X25S060	133.5	155.0	158.0	210.0	209	1.0	6	4
5.3	30	●	MVS0530X30S060	160.0	183.0	186.0	238.0	237	1.0	6	4
5.3	35	□	MVS0530X35S060	186.5	210.0	213.0	265.0	264	1.0	6	4
5.3	40	□	MVS0530X40S060	213.0	241.0	244.0	296.0	295	1.0	6	4
5.4	3	●	MVS0540X03S060	17.2	28.5	31.0	83.0	82	1.0	6	2
5.4	5	●	MVS0540X05S060	28.0	45.0	49.0	101.0	100	1.0	6	2
5.4	8	●	MVS0540X08S060	44.2	62.0	67.0	119.0	118	1.0	6	2
5.4	10	●	MVS0540X10S060	55.0	73.0	76.0	128.0	127	1.0	6	4
5.4	15	●	MVS0540X15S060	82.0	100.0	103.0	155.0	154	1.0	6	4
5.4	20	●	MVS0540X20S060	109.0	128.0	131.0	183.0	182	1.0	6	4
5.4	25	●	MVS0540X25S060	136.0	155.0	158.0	210.0	209	1.0	6	4
5.4	30	●	MVS0540X30S060	163.0	183.0	186.0	238.0	237	1.0	6	4
5.4	35	□	MVS0540X35S060	190.0	210.0	213.0	265.0	264	1.0	6	4
5.4	40	□	MVS0540X40S060	217.0	241.0	244.0	296.0	295	1.0	6	4
5.5	3	●	MVS0550X03S060	17.5	28.5	31.0	83.0	82	1.0	6	2
5.5	5	●	MVS0550X05S060	28.5	45.0	49.0	101.0	100	1.0	6	2
5.5	8	●	MVS0550X08S060	45.0	62.0	67.0	119.0	118	1.0	6	2
5.5	10	●	MVS0550X10S060	56.0	73.0	76.0	128.0	127	1.0	6	4
5.5	15	●	MVS0550X15S060	83.5	100.0	103.0	155.0	154	1.0	6	4
5.5	20	●	MVS0550X20S060	111.0	128.0	131.0	183.0	182	1.0	6	4
5.5	25	●	MVS0550X25S060	138.5	155.0	158.0	210.0	209	1.0	6	4
5.5	30	●	MVS0550X30S060	166.0	183.0	186.0	238.0	237	1.0	6	4
5.5	35	●	MVS0550X35S060	193.5	210.0	213.0	265.0	264	1.0	6	4
5.5	40	●	MVS0550X40S060	221.0	241.0	244.0	296.0	295	1.0	6	4
5.6	3	●	MVS0560X03S060	17.8	31.0	31.0	83.0	82	1.0	6	2
5.6	5	●	MVS0560X05S060	29.0	49.0	49.0	101.0	100	1.0	6	2
5.6	8	●	MVS0560X08S060	45.8	67.0	67.0	119.0	118	1.0	6	2
5.6	10	●	MVS0560X10S060	57.0	79.0	82.0	134.0	133	1.0	6	4
5.6	15	●	MVS0560X15S060	85.0	109.0	112.0	164.0	163	1.0	6	4
5.6	20	●	MVS0560X20S060	113.0	139.0	142.0	194.0	193	1.0	6	4
5.6	25	●	MVS0560X25S060	141.0	169.0	172.0	224.0	223	1.0	6	4
5.6	30	●	MVS0560X30S060	169.0	199.0	202.0	254.0	253	1.0	6	4
5.6	35	□	MVS0560X35S060	197.0	229.0	232.0	284.0	283	1.0	6	4

P

钻头

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
5.6	40	□	MVS0560X40S060	225.0	261.0	264.0	316.0	315	1.0	6	4
5.7	3	●	MVS0570X03S060	18.1	31.0	31.0	83.0	82	1.0	6	2
5.7	5	●	MVS0570X05S060	29.5	49.0	49.0	101.0	100	1.0	6	2
5.7	8	●	MVS0570X08S060	46.6	67.0	67.0	119.0	118	1.0	6	2
5.7	10	●	MVS0570X10S060	58.0	79.0	82.0	134.0	133	1.0	6	4
5.7	15	●	MVS0570X15S060	86.5	109.0	112.0	164.0	163	1.0	6	4
5.7	20	●	MVS0570X20S060	115.0	139.0	142.0	194.0	193	1.0	6	4
5.7	25	●	MVS0570X25S060	143.5	169.0	172.0	224.0	223	1.0	6	4
5.7	30	●	MVS0570X30S060	172.0	199.0	202.0	254.0	253	1.0	6	4
5.7	35	□	MVS0570X35S060	200.5	229.0	232.0	284.0	283	1.0	6	4
5.7	40	□	MVS0570X40S060	229.0	261.0	264.0	316.0	315	1.0	6	4
5.8	3	●	MVS0580X03S060	18.5	31.1	31.1	83.1	82	1.1	6	2
5.8	5	●	MVS0580X05S060	30.1	49.1	49.1	101.1	100	1.1	6	2
5.8	8	●	MVS0580X08S060	47.5	67.1	67.1	119.1	118	1.1	6	2
5.8	10	●	MVS0580X10S060	59.1	79.1	82.1	134.1	133	1.1	6	4
5.8	15	●	MVS0580X15S060	88.1	109.1	112.1	164.1	163	1.1	6	4
5.8	20	●	MVS0580X20S060	117.1	139.1	142.1	194.1	193	1.1	6	4
5.8	25	●	MVS0580X25S060	146.1	169.1	172.1	224.1	223	1.1	6	4
5.8	30	●	MVS0580X30S060	175.1	199.1	202.1	254.1	253	1.1	6	4
5.8	35	□	MVS0580X35S060	204.1	229.1	232.1	284.1	283	1.1	6	4
5.8	40	□	MVS0580X40S060	233.1	261.1	264.1	316.1	315	1.1	6	4
5.9	3	●	MVS0590X03S060	18.8	31.1	31.1	83.1	82	1.1	6	2
5.9	5	●	MVS0590X05S060	30.6	49.1	49.1	101.1	100	1.1	6	2
5.9	8	●	MVS0590X08S060	48.3	67.1	67.1	119.1	118	1.1	6	2
5.9	10	●	MVS0590X10S060	60.1	79.1	82.1	134.1	133	1.1	6	4
5.9	15	●	MVS0590X15S060	89.6	109.1	112.1	164.1	163	1.1	6	4
5.9	20	●	MVS0590X20S060	119.1	139.1	142.1	194.1	193	1.1	6	4
5.9	25	●	MVS0590X25S060	148.6	169.1	172.1	224.1	223	1.1	6	4
5.9	30	●	MVS0590X30S060	178.1	199.1	202.1	254.1	253	1.1	6	4
5.9	35	□	MVS0590X35S060	207.6	229.1	232.1	284.1	283	1.1	6	4
5.9	40	□	MVS0590X40S060	237.1	261.1	264.1	316.1	315	1.1	6	4
6.0	3	●	MVS0600X03S060	19.1	31.1	31.1	83.1	82	1.1	6	2
6.0	5	●	MVS0600X05S060	31.1	49.1	49.1	101.1	100	1.1	6	2
6.0	8	●	MVS0600X08S060	49.1	67.1	67.1	119.1	118	1.1	6	2
6.0	10	●	MVS0600X10S060	61.1	79.1	82.1	134.1	133	1.1	6	4
6.0	15	●	MVS0600X15S060	91.1	109.1	112.1	164.1	163	1.1	6	4
6.0	20	●	MVS0600X20S060	121.1	139.1	142.1	194.1	193	1.1	6	4
6.0	25	●	MVS0600X25S060	151.1	169.1	172.1	224.1	223	1.1	6	4
6.0	30	●	MVS0600X30S060	181.1	199.1	202.1	254.1	253	1.1	6	4
6.0	35	●	MVS0600X35S060	211.1	229.1	232.1	284.1	283	1.1	6	4
6.0	40	●	MVS0600X40S060	241.1	261.1	264.1	316.1	315	1.1	6	4
6.1	3	●	MVS0610X03S070	19.4	33.6	36.1	89.1	88	1.1	7	2
6.1	3	●	MVS0610X03S080	19.4	33.6	36.1	89.1	88	1.1	8	2
6.1	5	●	MVS0610X05S070	31.6	53.1	57.1	110.1	109	1.1	7	2
6.1	5	●	MVS0610X05S080	31.6	53.1	57.1	110.1	109	1.1	8	2
6.1	8	●	MVS0610X08S070	49.9	73.1	78.1	131.1	130	1.1	7	2
6.1	8	●	MVS0610X08S080	49.9	73.1	78.1	131.1	130	1.1	8	2
6.1	10	●	MVS0610X10S070	62.1	86.1	89.1	142.1	141	1.1	7	4

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.1	15	●	MVS0610X15S070	92.6	118.1	121.1	174.1	173	1.1	7	4
6.1	20	●	MVS0610X20S070	123.1	151.1	154.1	207.1	206	1.1	7	4
6.1	25	●	MVS0610X25S070	153.6	183.1	186.1	239.1	238	1.1	7	4
6.1	30	●	MVS0610X30S070	184.1	216.1	219.1	272.1	271	1.1	7	4
6.1	35	□	MVS0610X35S070	214.6	248.1	253.1	306.1	305	1.1	7	4
6.1	40	□	MVS0610X40S070	245.1	281.1	284.1	337.1	336	1.1	7	4
6.2	3	●	MVS0620X03S070	19.7	33.6	36.1	89.1	88	1.1	7	2
6.2	3	●	MVS0620X03S080	19.7	33.6	36.1	89.1	88	1.1	8	2
6.2	5	●	MVS0620X05S070	32.1	53.1	57.1	110.1	109	1.1	7	2
6.2	5	●	MVS0620X05S080	32.1	53.1	57.1	110.1	109	1.1	8	2
6.2	8	●	MVS0620X08S070	50.7	73.1	78.1	131.1	130	1.1	7	2
6.2	8	●	MVS0620X08S080	50.7	73.1	78.1	131.1	130	1.1	8	2
6.2	10	●	MVS0620X10S070	63.1	86.1	89.1	142.1	141	1.1	7	4
6.2	15	●	MVS0620X15S070	94.1	118.1	121.1	174.1	173	1.1	7	4
6.2	20	●	MVS0620X20S070	125.1	151.1	154.1	207.1	206	1.1	7	4
6.2	25	●	MVS0620X25S070	156.1	183.1	186.1	239.1	238	1.1	7	4
6.2	30	●	MVS0620X30S070	187.1	216.1	219.1	272.1	271	1.1	7	4
6.2	35	□	MVS0620X35S070	218.1	248.1	253.1	306.1	305	1.1	7	4
6.2	40	□	MVS0620X40S070	249.1	281.1	284.1	337.1	336	1.1	7	4
6.3	3	●	MVS0630X03S070	20.0	33.6	36.1	89.1	88	1.1	7	2
6.3	3	●	MVS0630X03S080	20.0	33.6	36.1	89.1	88	1.1	8	2
6.3	5	●	MVS0630X05S070	32.6	53.1	57.1	110.1	109	1.1	7	2
6.3	5	●	MVS0630X05S080	32.6	53.1	57.1	110.1	109	1.1	8	2
6.3	8	●	MVS0630X08S070	51.5	73.1	78.1	131.1	130	1.1	7	2
6.3	8	●	MVS0630X08S080	51.5	73.1	78.1	131.1	130	1.1	8	2
6.3	10	●	MVS0630X10S070	64.1	86.1	89.1	142.1	141	1.1	7	4
6.3	15	●	MVS0630X15S070	95.6	118.1	121.1	174.1	173	1.1	7	4
6.3	20	●	MVS0630X20S070	127.1	151.1	154.1	207.1	206	1.1	7	4
6.3	25	●	MVS0630X25S070	158.6	183.1	186.1	239.1	238	1.1	7	4
6.3	30	●	MVS0630X30S070	190.1	216.1	219.1	272.1	271	1.1	7	4
6.3	35	□	MVS0630X35S070	221.6	248.1	253.1	306.1	305	1.1	7	4
6.3	40	□	MVS0630X40S070	253.1	281.1	284.1	337.1	336	1.1	7	4
6.4	3	●	MVS0640X03S070	20.4	33.7	36.2	89.2	88	1.2	7	2
6.4	3	●	MVS0640X03S080	20.4	33.7	36.2	89.2	88	1.2	8	2
6.4	5	●	MVS0640X05S070	33.2	53.2	57.2	110.2	109	1.2	7	2
6.4	5	●	MVS0640X05S080	33.2	53.2	57.2	110.2	109	1.2	8	2
6.4	8	●	MVS0640X08S070	52.4	73.2	78.2	131.2	130	1.2	7	2
6.4	8	●	MVS0640X08S080	52.4	73.2	78.2	131.2	130	1.2	8	2
6.4	10	●	MVS0640X10S070	65.2	86.2	89.2	142.2	141	1.2	7	4
6.4	15	●	MVS0640X15S070	97.2	118.2	121.2	174.2	173	1.2	7	4
6.4	20	●	MVS0640X20S070	129.2	151.2	154.2	207.2	206	1.2	7	4
6.4	25	●	MVS0640X25S070	161.2	183.2	186.2	239.2	238	1.2	7	4
6.4	30	●	MVS0640X30S070	193.2	216.2	219.2	272.2	271	1.2	7	4
6.4	35	□	MVS0640X35S070	225.2	248.2	253.2	306.2	305	1.2	7	4
6.4	40	□	MVS0640X40S070	257.2	281.2	284.2	337.2	336	1.2	7	4
6.5	3	●	MVS0650X03S070	20.7	33.7	36.2	89.2	88	1.2	7	2
6.5	3	●	MVS0650X03S080	20.7	33.7	36.2	89.2	88	1.2	8	2
6.5	5	●	MVS0650X05S070	33.7	53.2	57.2	110.2	109	1.2	7	2

注1) ø5mm以下钻头的冷却孔形状为圆形 (L/D=3,5,8不到ø6mm)

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.5	5	●	MVS0650X05S080	33.7	53.2	57.2	110.2	109	1.2	8	2
6.5	8	●	MVS0650X08S070	53.2	73.2	78.2	131.2	130	1.2	7	2
6.5	8	●	MVS0650X08S080	53.2	73.2	78.2	131.2	130	1.2	8	2
6.5	10	●	MVS0650X10S070	66.2	86.2	89.2	142.2	141	1.2	7	4
6.5	15	●	MVS0650X15S070	98.7	118.2	121.2	174.2	173	1.2	7	4
6.5	20	●	MVS0650X20S070	131.2	151.2	154.2	207.2	206	1.2	7	4
6.5	25	●	MVS0650X25S070	163.7	183.2	186.2	239.2	238	1.2	7	4
6.5	30	●	MVS0650X30S070	196.2	216.2	219.2	272.2	271	1.2	7	4
6.5	35	●	MVS0650X35S070	228.7	248.2	253.2	306.2	305	1.2	7	4
6.5	40	●	MVS0650X40S070	261.2	281.2	284.2	337.2	336	1.2	7	4
6.6	3	●	MVS0660X03S070	21.0	36.2	36.2	89.2	88	1.2	7	2
6.6	3	●	MVS0660X03S080	21.0	36.2	38.2	89.2	88	1.2	8	2
6.6	5	●	MVS0660X05S070	34.2	57.2	57.2	110.2	109	1.2	7	2
6.6	5	●	MVS0660X05S080	34.2	57.2	59.2	110.2	109	1.2	8	2
6.6	8	●	MVS0660X08S070	54.0	78.2	78.2	131.2	130	1.2	7	2
6.6	8	●	MVS0660X08S080	54.0	78.2	80.2	131.2	130	1.2	8	2
6.6	10	●	MVS0660X10S070	67.2	92.2	95.2	148.2	147	1.2	7	4
6.6	15	●	MVS0660X15S070	100.2	127.2	130.2	183.2	182	1.2	7	4
6.6	20	●	MVS0660X20S070	133.2	162.2	165.2	218.2	217	1.2	7	4
6.6	25	●	MVS0660X25S070	166.2	197.2	200.2	253.2	252	1.2	7	4
6.6	30	●	MVS0660X30S070	199.2	232.2	235.2	288.2	287	1.2	7	4
6.6	35	□	MVS0660X35S070	232.2	267.2	270.2	323.2	322	1.2	7	4
6.6	40	□	MVS0660X40S070	265.2	301.2	304.2	357.2	356	1.2	7	4
6.7	3	●	MVS0670X03S070	21.3	36.2	36.2	89.2	88	1.2	7	2
6.7	3	●	MVS0670X03S080	21.3	36.2	38.2	89.2	88	1.2	8	2
6.7	5	●	MVS0670X05S070	34.7	57.2	57.2	110.2	109	1.2	7	2
6.7	5	●	MVS0670X05S080	34.7	57.2	59.2	110.2	109	1.2	8	2
6.7	8	●	MVS0670X08S070	54.8	78.2	78.2	131.2	130	1.2	7	2
6.7	8	●	MVS0670X08S080	54.8	78.2	80.2	131.2	130	1.2	8	2
6.7	10	●	MVS0670X10S070	68.2	92.2	95.2	148.2	147	1.2	7	4
6.7	15	●	MVS0670X15S070	101.7	127.2	130.2	183.2	182	1.2	7	4
6.7	20	●	MVS0670X20S070	135.2	162.2	165.2	218.2	217	1.2	7	4
6.7	25	●	MVS0670X25S070	168.7	197.2	200.2	253.2	252	1.2	7	4
6.7	30	●	MVS0670X30S070	202.2	232.2	235.2	288.2	287	1.2	7	4
6.7	35	□	MVS0670X35S070	235.7	267.2	270.2	323.2	322	1.2	7	4
6.7	40	□	MVS0670X40S070	269.2	301.2	304.2	357.2	356	1.2	7	4
6.8	3	●	MVS0680X03S070	21.6	36.2	36.2	89.2	88	1.2	7	2
6.8	3	●	MVS0680X03S080	21.6	36.2	38.2	89.2	88	1.2	8	2
6.8	5	●	MVS0680X05S070	35.2	57.2	57.2	110.2	109	1.2	7	2
6.8	5	●	MVS0680X05S080	35.2	57.2	59.2	110.2	109	1.2	8	2
6.8	8	●	MVS0680X08S070	55.6	78.2	78.2	131.2	130	1.2	7	2
6.8	8	●	MVS0680X08S080	55.6	78.2	80.2	131.2	130	1.2	8	2
6.8	10	●	MVS0680X10S070	69.2	92.2	95.2	148.2	147	1.2	7	4
6.8	15	●	MVS0680X15S070	103.2	127.2	130.2	183.2	182	1.2	7	4
6.8	20	●	MVS0680X20S070	137.2	162.2	165.2	218.2	217	1.2	7	4
6.8	25	●	MVS0680X25S070	171.2	197.2	200.2	253.2	252	1.2	7	4
6.8	30	●	MVS0680X30S070	205.2	232.2	235.2	288.2	287	1.2	7	4
6.8	35	□	MVS0680X35S070	239.2	267.2	270.2	323.2	322	1.2	7	4

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.8	40	□	MVS0680X40S070	273.2	301.2	304.2	357.2	356	1.2	7	4
6.9	3	●	MVS0690X03S070	22.0	36.3	36.3	89.3	88	1.3	7	2
6.9	3	●	MVS0690X03S080	22.0	36.3	38.3	89.3	88	1.3	8	2
6.9	5	●	MVS0690X05S070	35.8	57.3	57.3	110.3	109	1.3	7	2
6.9	5	●	MVS0690X05S080	35.8	57.3	59.3	110.3	109	1.3	8	2
6.9	8	●	MVS0690X08S070	56.5	78.3	78.3	131.3	130	1.3	7	2
6.9	8	●	MVS0690X08S080	56.5	78.3	80.3	131.3	130	1.3	8	2
6.9	10	●	MVS0690X10S070	70.3	92.3	95.3	148.3	147	1.3	7	4
6.9	15	●	MVS0690X15S070	104.8	127.3	130.3	183.3	182	1.3	7	4
6.9	20	●	MVS0690X20S070	139.3	162.3	165.3	218.3	217	1.3	7	4
6.9	25	●	MVS0690X25S070	173.8	197.3	200.3	253.3	252	1.3	7	4
6.9	30	●	MVS0690X30S070	208.3	232.3	235.3	288.3	287	1.3	7	4
6.9	35	□	MVS0690X35S070	242.8	267.3	270.3	323.3	322	1.3	7	4
6.9	40	□	MVS0690X40S070	277.3	301.3	304.3	357.3	356	1.3	7	4
7.0	3	●	MVS0700X03S070	22.3	36.3	36.3	89.3	88	1.3	7	2
7.0	3	●	MVS0700X03S080	22.3	36.3	38.3	89.3	88	1.3	8	2
7.0	5	●	MVS0700X05S070	36.3	57.3	57.3	110.3	109	1.3	7	2
7.0	5	●	MVS0700X05S080	36.3	57.3	59.3	110.3	109	1.3	8	2
7.0	8	●	MVS0700X08S070	57.3	78.3	78.3	131.3	130	1.3	7	2
7.0	8	●	MVS0700X08S080	57.3	78.3	80.3	131.3	130	1.3	8	2
7.0	10	●	MVS0700X10S070	71.3	92.3	95.3	148.3	147	1.3	7	4
7.0	15	●	MVS0700X15S070	106.3	127.3	130.3	183.3	182	1.3	7	4
7.0	20	●	MVS0700X20S070	141.3	162.3	165.3	218.3	217	1.3	7	4
7.0	25	●	MVS0700X25S070	176.3	197.3	200.3	253.3	252	1.3	7	4
7.0	30	●	MVS0700X30S070	211.3	232.3	235.3	288.3	287	1.3	7	4
7.0	35	●	MVS0700X35S070	246.3	267.3	270.3	323.3	322	1.3	7	4
7.0	40	●	MVS0700X40S070	281.3	301.3	304.3	357.3	356	1.3	7	4
7.1	3	●	MVS0710X03S080	22.6	38.8	41.3	95.3	94	1.3	8	2
7.1	5	●	MVS0710X05S080	36.8	61.3	65.3	119.3	118	1.3	8	2
7.1	8	●	MVS0710X08S080	58.1	84.3	89.3	143.3	142	1.3	8	2
7.1	10	●	MVS0710X10S080	72.3	99.3	102.3	156.3	155	1.3	8	4
7.1	15	●	MVS0710X15S080	107.8	136.3	139.3	193.3	192	1.3	8	4
7.1	20	●	MVS0710X20S080	143.3	174.3	177.3	231.3	230	1.3	8	4
7.1	25	●	MVS0710X25S080	178.8	211.3	214.3	268.3	267	1.3	8	4
7.1	30	●	MVS0710X30S080	214.3	249.3	252.3	306.3	305	1.3	8	4
7.1	35	□	MVS0710X35S080	249.8	286.3	289.3	343.3	342	1.3	8	4
7.1	40	□	MVS0710X40S080	285.3	321.3	324.3	378.3	377	1.3	8	4
7.2	3	●	MVS0720X03S080	22.9	38.8	41.3	95.3	94	1.3	8	2
7.2	5	●	MVS0720X05S080	37.3	61.3	65.3	119.3	118	1.3	8	2
7.2	8	●	MVS0720X08S080	58.9	84.3	89.3	143.3	142	1.3	8	2
7.2	10	●	MVS0720X10S080	73.3	99.3	102.3	156.3	155	1.3	8	4
7.2	15	●	MVS0720X15S080	109.3	136.3	139.3	193.3	192	1.3	8	4
7.2	20	●	MVS0720X20S080	145.3	174.3	177.3	231.3	230	1.3	8	4
7.2	25	●	MVS0720X25S080	181.3	211.3	214.3	268.3	267	1.3	8	4
7.2	30	●	MVS0720X30S080	217.3	249.3	252.3	306.3	305	1.3	8	4
7.2	35	□	MVS0720X35S080	253.3	286.3	289.3	343.3	342	1.3	8	4
7.2	40	□	MVS0720X40S080	289.3	321.3	324.3	378.3	377	1.3	8	4
7.3	3	●	MVS0730X03S080	23.2	38.8	41.3	95.3	94	1.3	8	2

P

钻头

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
7.3	5	●	MVS0730X05S080	37.8	61.3	65.3	119.3	118	1.3	8	2
7.3	8	●	MVS0730X08S080	59.7	84.3	89.3	143.3	142	1.3	8	2
7.3	10	●	MVS0730X10S080	74.3	99.3	102.3	156.3	155	1.3	8	4
7.3	15	●	MVS0730X15S080	110.8	136.3	139.3	193.3	192	1.3	8	4
7.3	20	●	MVS0730X20S080	147.3	174.3	177.3	231.3	230	1.3	8	4
7.3	25	●	MVS0730X25S080	183.8	211.3	214.3	268.3	267	1.3	8	4
7.3	30	●	MVS0730X30S080	220.3	249.3	252.3	306.3	305	1.3	8	4
7.3	35	□	MVS0730X35S080	256.8	286.3	289.3	343.3	342	1.3	8	4
7.3	40	□	MVS0730X40S080	293.3	321.3	324.3	378.3	377	1.3	8	4
7.4	3	●	MVS0740X03S080	23.5	38.8	41.3	95.3	94	1.3	8	2
7.4	5	●	MVS0740X05S080	38.3	61.3	65.3	119.3	118	1.3	8	2
7.4	8	●	MVS0740X08S080	60.5	84.3	89.3	143.3	142	1.3	8	2
7.4	10	●	MVS0740X10S080	75.3	99.3	102.3	156.3	155	1.3	8	4
7.4	15	●	MVS0740X15S080	112.3	136.3	139.3	193.3	192	1.3	8	4
7.4	20	●	MVS0740X20S080	149.3	174.3	177.3	231.3	230	1.3	8	4
7.4	25	●	MVS0740X25S080	186.3	211.3	214.3	268.3	267	1.3	8	4
7.4	30	●	MVS0740X30S080	223.3	249.3	252.3	306.3	305	1.3	8	4
7.4	35	□	MVS0740X35S080	260.3	286.3	289.3	343.3	342	1.3	8	4
7.4	40	□	MVS0740X40S080	297.3	321.3	324.3	378.3	377	1.3	8	4
7.5	3	●	MVS0750X03S080	23.9	38.9	41.4	95.4	94	1.4	8	2
7.5	5	●	MVS0750X05S080	38.9	61.4	65.4	119.4	118	1.4	8	2
7.5	8	●	MVS0750X08S080	61.4	84.4	89.4	143.4	142	1.4	8	2
7.5	10	●	MVS0750X10S080	76.4	99.4	102.4	156.4	155	1.4	8	4
7.5	15	●	MVS0750X15S080	113.9	136.4	139.4	193.4	192	1.4	8	4
7.5	20	●	MVS0750X20S080	151.4	174.4	177.4	231.4	230	1.4	8	4
7.5	25	●	MVS0750X25S080	188.9	211.4	214.4	268.4	267	1.4	8	4
7.5	30	●	MVS0750X30S080	226.4	249.4	252.4	306.4	305	1.4	8	4
7.5	35	●	MVS0750X35S080	263.9	286.4	289.4	343.4	342	1.4	8	4
7.5	40	●	MVS0750X40S080	301.4	321.4	324.4	378.4	377	1.4	8	4
7.6	3	●	MVS0760X03S080	24.2	41.4	41.4	95.4	94	1.4	8	2
7.6	5	●	MVS0760X05S080	39.4	65.4	65.4	119.4	118	1.4	8	2
7.6	8	●	MVS0760X08S080	62.2	89.4	89.4	143.4	142	1.4	8	2
7.6	10	●	MVS0760X10S080	77.4	105.4	108.4	162.4	161	1.4	8	4
7.6	15	●	MVS0760X15S080	115.4	145.4	148.4	202.4	201	1.4	8	4
7.6	20	●	MVS0760X20S080	153.4	185.4	188.4	242.4	241	1.4	8	4
7.6	25	●	MVS0760X25S080	191.4	225.4	228.4	282.4	281	1.4	8	4
7.6	30	●	MVS0760X30S080	229.4	265.4	268.4	322.4	321	1.4	8	4
7.6	35	□	MVS0760X35S080	267.4	305.4	308.4	362.4	361	1.4	8	4
7.6	40	□	MVS0760X40S080	305.4	341.4	344.4	398.4	397	1.4	8	4
7.7	3	●	MVS0770X03S080	24.5	41.4	41.4	95.4	94	1.4	8	2
7.7	5	●	MVS0770X05S080	39.9	65.4	65.4	119.4	118	1.4	8	2
7.7	8	●	MVS0770X08S080	63.0	89.4	89.4	143.4	142	1.4	8	2
7.7	10	●	MVS0770X10S080	78.4	105.4	108.4	162.4	161	1.4	8	4
7.7	15	●	MVS0770X15S080	116.9	145.4	148.4	202.4	201	1.4	8	4
7.7	20	●	MVS0770X20S080	155.4	185.4	188.4	242.4	241	1.4	8	4
7.7	25	●	MVS0770X25S080	193.9	225.4	228.4	282.4	281	1.4	8	4
7.7	30	●	MVS0770X30S080	232.4	265.4	268.4	322.4	321	1.4	8	4
7.7	35	□	MVS0770X35S080	270.9	305.4	308.4	362.4	361	1.4	8	4

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
7.7	40	□	MVS0770X40S080	309.4	341.4	344.4	398.4	397	1.4	8	4
7.8	3	●	MVS0780X03S080	24.8	41.4	41.4	95.4	94	1.4	8	2
7.8	5	●	MVS0780X05S080	40.4	65.4	65.4	119.4	118	1.4	8	2
7.8	8	●	MVS0780X08S080	63.8	89.4	89.4	143.4	142	1.4	8	2
7.8	10	●	MVS0780X10S080	79.4	105.4	108.4	162.4	161	1.4	8	4
7.8	15	●	MVS0780X15S080	118.4	145.4	148.4	202.4	201	1.4	8	4
7.8	20	●	MVS0780X20S080	157.4	185.4	188.4	242.4	241	1.4	8	4
7.8	25	●	MVS0780X25S080	196.4	225.4	228.4	282.4	281	1.4	8	4
7.8	30	●	MVS0780X30S080	235.4	265.4	268.4	322.4	321	1.4	8	4
7.8	35	□	MVS0780X35S080	274.4	305.4	308.4	362.4	361	1.4	8	4
7.8	40	□	MVS0780X40S080	313.4	341.4	344.4	398.4	397	1.4	8	4
7.9	3	●	MVS0790X03S080	25.1	41.4	41.4	95.4	94	1.4	8	2
7.9	5	●	MVS0790X05S080	40.9	65.4	65.4	119.4	118	1.4	8	2
7.9	8	●	MVS0790X08S080	64.6	89.4	89.4	143.4	142	1.4	8	2
7.9	10	●	MVS0790X10S080	80.4	105.4	108.4	162.4	161	1.4	8	4
7.9	15	●	MVS0790X15S080	119.9	145.4	148.4	202.4	201	1.4	8	4
7.9	20	●	MVS0790X20S080	159.4	185.4	188.4	242.4	241	1.4	8	4
7.9	25	●	MVS0790X25S080	198.9	225.4	228.4	282.4	281	1.4	8	4
7.9	30	●	MVS0790X30S080	238.4	265.4	268.4	322.4	321	1.4	8	4
7.9	35	□	MVS0790X35S080	277.9	305.4	308.4	362.4	361	1.4	8	4
7.9	40	□	MVS0790X40S080	317.4	341.4	344.4	398.4	397	1.4	8	4
8.0	3	●	MVS0800X03S080	25.5	41.5	41.5	95.5	94	1.5	8	2
8.0	5	●	MVS0800X05S080	41.5	65.5	65.5	119.5	118	1.5	8	2
8.0	8	●	MVS0800X08S080	65.5	89.5	89.5	143.5	142	1.5	8	2
8.0	10	●	MVS0800X10S080	81.5	105.5	108.5	162.5	161	1.5	8	4
8.0	15	●	MVS0800X15S080	121.5	145.5	148.5	202.5	201	1.5	8	4
8.0	20	●	MVS0800X20S080	161.5	185.5	188.5	242.5	241	1.5	8	4
8.0	25	●	MVS0800X25S080	201.5	225.5	228.5	282.5	281	1.5	8	4
8.0	30	●	MVS0800X30S080	241.5	265.5	268.5	322.5	321	1.5	8	4
8.0	35	●	MVS0800X35S080	281.5	305.5	308.5	362.5	361	1.5	8	4
8.0	40	●	MVS0800X40S080	321.5	341.5	344.5	398.5	397	1.5	8	4
8.1	3	●	MVS0810X03S090	25.8	44.0	46.5	101.5	100	1.5	9	2
8.1	3	●	MVS0810X03S100	25.8	44.0	46.5	101.5	100	1.5	10	2
8.1	5	●	MVS0810X05S090	42.0	69.5	73.5	128.5	127	1.5	9	2
8.1	5	●	MVS0810X05S100	42.0	69.5	73.5	128.5	127	1.5	10	2
8.1	8	●	MVS0810X08S090	66.3	95.5	100.5	155.5	154	1.5	9	2
8.1	8	●	MVS0810X08S100	66.3	95.5	100.5	155.5	154	1.5	10	2
8.1	10	●	MVS0810X10S090	82.5	112.5	115.5	170.5	169	1.5	9	4
8.1	15	●	MVS0810X15S090	123.0	154.5	157.5	212.5	211	1.5	9	4
8.1	20	●	MVS0810X20S090	163.5	197.5	200.5	255.5	254	1.5	9	4
8.1	25	●	MVS0810X25S090	204.0	239.5	242.5	297.5	296	1.5	9	4
8.1	30	●	MVS0810X30S090	244.5	282.5	285.5	340.5	339	1.5	9	4
8.1	35	□	MVS0810X35S090	285.0	324.5	327.5	382.5	381	1.5	9	4
8.1	40	□	MVS0810X40S090	325.5	366.5	369.5	424.5	423	1.5	9	4
8.2	3	●	MVS0820X03S090	26.1	44.0	46.5	101.5	100	1.5	9	2
8.2	3	●	MVS0820X03S100	26.1	44.0	46.5	101.5	100	1.5	10	2
8.2	5	●	MVS0820X05S090	42.5	69.5	73.5	128.5	127	1.5	9	2
8.2	5	●	MVS0820X05S100	42.5	69.5	73.5	128.5	127	1.5	10	2

●：标准库存品 □：预订生产品

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
8.2	8	●	MVS0820X08S090	67.1	95.5	100.5	155.5	154	1.5	9	2
8.2	8	●	MVS0820X08S100	67.1	95.5	100.5	155.5	154	1.5	10	2
8.2	10	●	MVS0820X10S090	83.5	112.5	115.5	170.5	169	1.5	9	4
8.2	15	●	MVS0820X15S090	124.5	154.5	157.5	212.5	211	1.5	9	4
8.2	20	●	MVS0820X20S090	165.5	197.5	200.5	255.5	254	1.5	9	4
8.2	25	●	MVS0820X25S090	206.5	239.5	242.5	297.5	296	1.5	9	4
8.2	30	●	MVS0820X30S090	247.5	282.5	285.5	340.5	339	1.5	9	4
8.2	35	□	MVS0820X35S090	288.5	324.5	327.5	382.5	381	1.5	9	4
8.2	40	□	MVS0820X40S090	329.5	366.5	369.5	424.5	423	1.5	9	4
8.3	3	●	MVS0830X03S090	26.4	44.0	46.5	101.5	100	1.5	9	2
8.3	3	●	MVS0830X03S100	26.4	44.0	46.5	101.5	100	1.5	10	2
8.3	5	●	MVS0830X05S090	43.0	69.5	73.5	128.5	127	1.5	9	2
8.3	5	●	MVS0830X05S100	43.0	69.5	73.5	128.5	127	1.5	10	2
8.3	8	●	MVS0830X08S090	67.9	95.5	100.5	155.5	154	1.5	9	2
8.3	8	●	MVS0830X08S100	67.9	95.5	100.5	155.5	154	1.5	10	2
8.3	10	●	MVS0830X10S090	84.5	112.5	115.5	170.5	169	1.5	9	4
8.3	15	●	MVS0830X15S090	126.0	154.5	157.5	212.5	211	1.5	9	4
8.3	20	●	MVS0830X20S090	167.5	197.5	200.5	255.5	254	1.5	9	4
8.3	25	●	MVS0830X25S090	209.0	239.5	242.5	297.5	296	1.5	9	4
8.3	30	●	MVS0830X30S090	250.5	282.5	285.5	340.5	339	1.5	9	4
8.3	35	□	MVS0830X35S090	292.0	324.5	327.5	382.5	381	1.5	9	4
8.3	40	□	MVS0830X40S090	333.5	366.5	369.5	424.5	423	1.5	9	4
8.4	3	●	MVS0840X03S090	26.7	44.0	46.5	101.5	100	1.5	9	2
8.4	3	●	MVS0840X03S100	26.7	44.0	46.5	101.5	100	1.5	10	2
8.4	5	●	MVS0840X05S090	43.5	69.5	73.5	128.5	127	1.5	9	2
8.4	5	●	MVS0840X05S100	43.5	69.5	73.5	128.5	127	1.5	10	2
8.4	8	●	MVS0840X08S090	68.7	95.5	100.5	155.5	154	1.5	9	2
8.4	8	●	MVS0840X08S100	68.7	95.5	100.5	155.5	154	1.5	10	2
8.4	10	●	MVS0840X10S090	85.5	112.5	115.5	170.5	169	1.5	9	4
8.4	15	●	MVS0840X15S090	127.5	154.5	157.5	212.5	211	1.5	9	4
8.4	20	●	MVS0840X20S090	169.5	197.5	200.5	255.5	254	1.5	9	4
8.4	25	●	MVS0840X25S090	211.5	239.5	242.5	297.5	296	1.5	9	4
8.4	30	●	MVS0840X30S090	253.5	282.5	285.5	340.5	339	1.5	9	4
8.4	35	□	MVS0840X35S090	295.5	324.5	327.5	382.5	381	1.5	9	4
8.4	40	□	MVS0840X40S090	337.5	366.5	369.5	424.5	423	1.5	9	4
8.5	3	●	MVS0850X03S090	27.0	44.0	46.5	101.5	100	1.5	9	2
8.5	3	●	MVS0850X03S100	27.0	44.0	46.5	101.5	100	1.5	10	2
8.5	5	●	MVS0850X05S090	44.0	69.5	73.5	128.5	127	1.5	9	2
8.5	5	●	MVS0850X05S100	44.0	69.5	73.5	128.5	127	1.5	10	2
8.5	8	●	MVS0850X08S090	69.5	95.5	100.5	155.5	154	1.5	9	2
8.5	8	●	MVS0850X08S100	69.5	95.5	100.5	155.5	154	1.5	10	2
8.5	10	●	MVS0850X10S090	86.5	112.5	115.5	170.5	169	1.5	9	4
8.5	15	●	MVS0850X15S090	129.0	154.5	157.5	212.5	211	1.5	9	4
8.5	20	●	MVS0850X20S090	171.5	197.5	200.5	255.5	254	1.5	9	4
8.5	25	●	MVS0850X25S090	214.0	239.5	242.5	297.5	296	1.5	9	4
8.5	30	●	MVS0850X30S090	256.5	282.5	285.5	340.5	339	1.5	9	4
8.5	35	●	MVS0850X35S090	299.0	324.5	327.5	382.5	381	1.5	9	4
8.5	40	●	MVS0850X40S090	341.5	366.5	369.5	424.5	423	1.5	9	4

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
8.6	3	●	MVS0860X03S090	27.4	46.6	46.6	101.6	100	1.6	9	2
8.6	3	●	MVS0860X03S100	27.4	46.6	48.6	101.6	100	1.6	10	2
8.6	5	●	MVS0860X05S090	44.6	73.6	73.6	128.6	127	1.6	9	2
8.6	5	●	MVS0860X05S100	44.6	73.6	75.6	128.6	127	1.6	10	2
8.6	8	●	MVS0860X08S090	70.4	100.6	100.6	155.6	154	1.6	9	2
8.6	8	●	MVS0860X08S100	70.4	100.6	102.6	155.6	154	1.6	10	2
8.6	10	●	MVS0860X10S090	87.6	118.6	121.6	176.6	175	1.6	9	4
8.6	15	●	MVS0860X15S090	130.6	163.6	166.6	221.6	220	1.6	9	4
8.6	20	●	MVS0860X20S090	173.6	208.6	211.6	266.6	265	1.6	9	4
8.6	25	●	MVS0860X25S090	216.6	253.6	256.6	311.6	310	1.6	9	4
8.6	30	●	MVS0860X30S090	259.6	298.6	301.6	356.6	355	1.6	9	4
8.6	35	□	MVS0860X35S090	302.6	343.6	346.6	401.6	400	1.6	9	4
8.6	40	□	MVS0860X40S090	345.6	391.6	394.6	449.6	448	1.6	9	4
8.7	3	●	MVS0870X03S090	27.7	46.6	46.6	101.6	100	1.6	9	2
8.7	3	●	MVS0870X03S100	27.7	46.6	48.6	101.6	100	1.6	10	2
8.7	5	●	MVS0870X05S090	45.1	73.6	73.6	128.6	127	1.6	9	2
8.7	5	●	MVS0870X05S100	45.1	73.6	75.6	128.6	127	1.6	10	2
8.7	8	●	MVS0870X08S090	71.2	100.6	100.6	155.6	154	1.6	9	2
8.7	8	●	MVS0870X08S100	71.2	100.6	102.6	155.6	154	1.6	10	2
8.7	10	●	MVS0870X10S090	88.6	118.6	121.6	176.6	175	1.6	9	4
8.7	15	●	MVS0870X15S090	132.1	163.6	166.6	221.6	220	1.6	9	4
8.7	20	●	MVS0870X20S090	175.6	208.6	211.6	266.6	265	1.6	9	4
8.7	25	●	MVS0870X25S090	219.1	253.6	256.6	311.6	310	1.6	9	4
8.7	30	●	MVS0870X30S090	262.6	298.6	301.6	356.6	355	1.6	9	4
8.7	35	□	MVS0870X35S090	306.1	343.6	346.6	401.6	400	1.6	9	4
8.7	40	□	MVS0870X40S090	349.6	391.6	394.6	449.6	448	1.6	9	4
8.8	3	●	MVS0880X03S090	28.0	46.6	46.6	101.6	100	1.6	9	2
8.8	3	●	MVS0880X03S100	28.0	46.6	48.6	101.6	100	1.6	10	2
8.8	5	●	MVS0880X05S090	45.6	73.6	73.6	128.6	127	1.6	9	2
8.8	5	●	MVS0880X05S100	45.6	73.6	75.6	128.6	127	1.6	10	2
8.8	8	●	MVS0880X08S090	72.0	100.6	100.6	155.6	154	1.6	9	2
8.8	8	●	MVS0880X08S100	72.0	100.6	102.6	155.6	154	1.6	10	2
8.8	10	●	MVS0880X10S090	89.6	118.6	121.6	176.6	175	1.6	9	4
8.8	15	●	MVS0880X15S090	133.6	163.6	166.6	221.6	220	1.6	9	4
8.8	20	●	MVS0880X20S090	177.6	208.6	211.6	266.6	265	1.6	9	4
8.8	25	●	MVS0880X25S090	221.6	253.6	256.6	311.6	310	1.6	9	4
8.8	30	●	MVS0880X30S090	265.6	298.6	301.6	356.6	355	1.6	9	4
8.8	35	□	MVS0880X35S090	309.6	343.6	346.6	401.6	400	1.6	9	4
8.8	40	□	MVS0880X40S090	353.6	391.6	394.6	449.6	448	1.6	9	4
8.9	3	●	MVS0890X03S090	28.3	46.6	46.6	101.6	100	1.6	9	2
8.9	3	●	MVS0890X03S100	28.3	46.6	48.6	101.6	100	1.6	10	2
8.9	5	●	MVS0890X05S090	46.1	73.6	73.6	128.6	127	1.6	9	2
8.9	5	●	MVS0890X05S100	46.1	73.6	75.6	128.6	127	1.6	10	2
8.9	8	●	MVS0890X08S090	72.8	100.6	100.6	155.6	154	1.6	9	2
8.9	8	●	MVS0890X08S100	72.8	100.6	102.6	155.6	154	1.6	10	2
8.9	10	●	MVS0890X10S090	90.6	118.6	121.6	176.6	175	1.6	9	4
8.9	15	●	MVS0890X15S090	135.1	163.6	166.6	221.6	220	1.6	9	4
8.9	20	●	MVS0890X20S090	179.6	208.6	211.6	266.6	265	1.6	9	4

P

钻头

DC	钻削孔深 (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
					LU	LCF	LH	OAL	LF	PL	DCON	
8.9	25	●	●	MVS0890X25S090	224.1	253.6	256.6	311.6	310	1.6	9	4
8.9	30	●	●	MVS0890X30S090	268.6	298.6	301.6	356.6	355	1.6	9	4
8.9	35	□	□	MVS0890X35S090	313.1	343.6	346.6	401.6	400	1.6	9	4
8.9	40	□	□	MVS0890X40S090	357.6	391.6	394.6	449.6	448	1.6	9	4
9.0	3	●	●	MVS0900X03S090	28.6	46.6	46.6	101.6	100	1.6	9	2
9.0	3	●	●	MVS0900X03S100	28.6	46.6	48.6	101.6	100	1.6	10	2
9.0	5	●	●	MVS0900X05S090	46.6	73.6	73.6	128.6	127	1.6	9	2
9.0	5	●	●	MVS0900X05S100	46.6	73.6	75.6	128.6	127	1.6	10	2
9.0	8	●	●	MVS0900X08S090	73.6	100.6	100.6	155.6	154	1.6	9	2
9.0	8	●	●	MVS0900X08S100	73.6	100.6	102.6	155.6	154	1.6	10	2
9.0	10	●	●	MVS0900X10S090	91.6	118.6	121.6	176.6	175	1.6	9	4
9.0	15	●	●	MVS0900X15S090	136.6	163.6	166.6	221.6	220	1.6	9	4
9.0	20	●	●	MVS0900X20S090	181.6	208.6	211.6	266.6	265	1.6	9	4
9.0	25	●	●	MVS0900X25S090	226.6	253.6	256.6	311.6	310	1.6	9	4
9.0	30	●	●	MVS0900X30S090	271.6	298.6	301.6	356.6	355	1.6	9	4
9.0	35	●	●	MVS0900X35S090	316.6	343.6	346.6	401.6	400	1.6	9	4
9.0	40	●	●	MVS0900X40S090	361.6	391.6	394.6	449.6	448	1.6	9	4
9.1	3	●	●	MVS0910X03S100	29.0	49.2	51.7	107.7	106	1.7	10	2
9.1	5	●	●	MVS0910X05S100	47.2	77.7	81.7	137.7	136	1.7	10	2
9.1	8	●	●	MVS0910X08S100	74.5	106.7	111.7	167.7	166	1.7	10	2
9.1	10	●	●	MVS0910X10S100	92.7	125.7	128.7	183.7	182	1.7	10	4
9.1	15	●	●	MVS0910X15S100	138.2	172.7	175.7	230.7	229	1.7	10	4
9.1	20	●	●	MVS0910X20S100	183.7	220.7	223.7	278.7	277	1.7	10	4
9.1	25	●	●	MVS0910X25S100	229.2	267.7	270.7	325.7	324	1.7	10	4
9.1	30	●	●	MVS0910X30S100	274.7	315.7	318.7	373.7	372	1.7	10	4
9.1	35	□	□	MVS0910X35S100	320.2	362.7	365.7	420.7	419	1.7	10	4
9.2	3	●	●	MVS0920X03S100	29.3	49.2	51.7	107.7	106	1.7	10	2
9.2	5	●	●	MVS0920X05S100	47.7	77.7	81.7	137.7	136	1.7	10	2
9.2	8	●	●	MVS0920X08S100	75.3	106.7	111.7	167.7	166	1.7	10	2
9.2	10	●	●	MVS0920X10S100	93.7	125.7	128.7	183.7	182	1.7	10	4
9.2	15	●	●	MVS0920X15S100	139.7	172.7	175.7	230.7	229	1.7	10	4
9.2	20	●	●	MVS0920X20S100	185.7	220.7	223.7	278.7	277	1.7	10	4
9.2	25	●	●	MVS0920X25S100	231.7	267.7	270.7	325.7	324	1.7	10	4
9.2	30	●	●	MVS0920X30S100	277.7	315.7	318.7	373.7	372	1.7	10	4
9.2	35	□	□	MVS0920X35S100	323.7	362.7	365.7	420.7	419	1.7	10	4
9.3	3	●	●	MVS0930X03S100	29.6	49.2	51.7	107.7	106	1.7	10	2
9.3	5	●	●	MVS0930X05S100	48.2	77.7	81.7	137.7	136	1.7	10	2
9.3	8	●	●	MVS0930X08S100	76.1	106.7	111.7	167.7	166	1.7	10	2
9.3	10	●	●	MVS0930X10S100	94.7	125.7	128.7	183.7	182	1.7	10	4
9.3	15	●	●	MVS0930X15S100	141.2	172.7	175.7	230.7	229	1.7	10	4
9.3	20	●	●	MVS0930X20S100	187.7	220.7	223.7	278.7	277	1.7	10	4
9.3	25	●	●	MVS0930X25S100	234.2	267.7	270.7	325.7	324	1.7	10	4
9.3	30	●	●	MVS0930X30S100	280.7	315.7	318.7	373.7	372	1.7	10	4
9.3	35	□	□	MVS0930X35S100	327.2	362.7	365.7	420.7	419	1.7	10	4
9.4	3	●	●	MVS0940X03S100	29.9	49.2	51.7	107.7	106	1.7	10	2
9.4	5	●	●	MVS0940X05S100	48.7	77.7	81.7	137.7	136	1.7	10	2
9.4	8	●	●	MVS0940X08S100	76.9	106.7	111.7	167.7	166	1.7	10	2
9.4	10	●	●	MVS0940X10S100	95.7	125.7	128.7	183.7	182	1.7	10	4

DC	钻削孔深 (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
					LU	LCF	LH	OAL	LF	PL	DCON	
9.4	15	●	●	MVS0940X15S100	142.7	172.7	175.7	230.7	229	1.7	10	4
9.4	20	●	●	MVS0940X20S100	189.7	220.7	223.7	278.7	277	1.7	10	4
9.4	25	●	●	MVS0940X25S100	236.7	267.7	270.7	325.7	324	1.7	10	4
9.4	30	●	●	MVS0940X30S100	283.7	315.7	318.7	373.7	372	1.7	10	4
9.4	35	□	□	MVS0940X35S100	330.7	362.7	365.7	420.7	419	1.7	10	4
9.5	3	●	●	MVS0950X03S100	30.2	49.2	51.7	107.7	106	1.7	10	2
9.5	5	●	●	MVS0950X05S100	49.2	77.7	81.7	137.7	136	1.7	10	2
9.5	8	●	●	MVS0950X08S100	77.7	106.7	111.7	167.7	166	1.7	10	2
9.5	10	●	●	MVS0950X10S100	96.7	125.7	128.7	183.7	182	1.7	10	4
9.5	15	●	●	MVS0950X15S100	144.2	172.7	175.7	230.7	229	1.7	10	4
9.5	20	●	●	MVS0950X20S100	191.7	220.7	223.7	278.7	277	1.7	10	4
9.5	25	●	●	MVS0950X25S100	239.2	267.7	270.7	325.7	324	1.7	10	4
9.5	30	●	●	MVS0950X30S100	286.7	315.7	318.7	373.7	372	1.7	10	4
9.5	35	●	●	MVS0950X35S100	334.2	362.7	365.7	420.7	419	1.7	10	4
9.6	3	●	●	MVS0960X03S100	30.5	51.7	51.7	107.7	106	1.7	10	2
9.6	5	●	●	MVS0960X05S100	49.7	81.7	81.7	137.7	136	1.7	10	2
9.6	8	●	●	MVS0960X08S100	78.5	111.7	111.7	167.7	166	1.7	10	2
9.6	10	●	●	MVS0960X10S100	97.7	131.7	134.7	189.7	188	1.7	10	4
9.6	15	●	●	MVS0960X15S100	145.7	181.7	184.7	239.7	238	1.7	10	4
9.6	20	●	●	MVS0960X20S100	193.7	231.7	234.7	289.7	288	1.7	10	4
9.6	25	●	●	MVS0960X25S100	241.7	281.7	284.7	339.7	338	1.7	10	4
9.6	30	●	●	MVS0960X30S100	289.7	331.7	334.7	389.7	388	1.7	10	4
9.6	35	□	□	MVS0960X35S100	337.7	381.7	384.7	439.7	438	1.7	10	4
9.7	3	●	●	MVS0970X03S100	30.9	51.8	51.8	107.8	106	1.8	10	2
9.7	5	●	●	MVS0970X05S100	50.3	81.8	81.8	137.8	136	1.8	10	2
9.7	8	●	●	MVS0970X08S100	79.4	111.8	111.8	167.8	166	1.8	10	2
9.7	10	●	●	MVS0970X10S100	98.8	131.8	134.8	189.8	188	1.8	10	4
9.7	15	●	●	MVS0970X15S100	147.3	181.8	184.8	239.8	238	1.8	10	4
9.7	20	●	●	MVS0970X20S100	195.8	231.8	234.8	289.8	288	1.8	10	4
9.7	25	●	●	MVS0970X25S100	244.3	281.8	284.8	339.8	338	1.8	10	4
9.7	30	●	●	MVS0970X30S100	292.8	331.8	334.8	389.8	388	1.8	10	4
9.7	35	□	□	MVS0970X35S100	341.3	381.8	384.8	439.8	438	1.8	10	4
9.8	3	●	●	MVS0980X03S100	31.2	51.8	51.8	107.8	106	1.8	10	2
9.8	5	●	●	MVS0980X05S100	50.8	81.8	81.8	137.8	136	1.8	10	2
9.8	8	●	●	MVS0980X08S100	80.2	111.8	111.8	167.8	166	1.8	10	2
9.8	10	●	●	MVS0980X10S100	99.8	131.8	134.8	189.8	188	1.8	10	4
9.8	15	●	●	MVS0980X15S100	148.8	181.8	184.8	239.8	238	1.8	10	4
9.8	20	●	●	MVS0980X20S100	197.8	231.8	234.8	289.8	288	1.8	10	4
9.8	25	●	●	MVS0980X25S100	246.8	281.8	284.8	339.8	338	1.8	10	4
9.8	30	●	●	MVS0980X30S100	295.8	331.8	334.8	389.8	388	1.8	10	4
9.8	35	□	□	MVS0980X35S100	344.8	381.8	384.8	439.8	438	1.8	10	4
9.9	3	●	●	MVS0990X03S100	31.5	51.8	51.8	107.8	106	1.8	10	2
9.9	5	●	●	MVS0990X05S100	51.3	81.8	81.8	137.8	136	1.8	10	2
9.9	8	●	●	MVS0990X08S100	81.0	111.8	111.8	167.8	166	1.8	10	2
9.9	10	●	●	MVS0990X10S100	100.8	131.8	134.8	189.8	188	1.8	10	4
9.9	15	●	●	MVS0990X15S100	150.3	181.8	184.8	239.8	238	1.8	10	4
9.9	20	●	●	MVS0990X20S100	199.8	231.8	234.8	289.8	288	1.8	10	4
9.9	25	●	●	MVS0990X25S100	249.3	281.8	284.8	339.8	338	1.8	10	4

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
9.9	30	●	MVS0990X30S100	298.8	331.8	334.8	389.8	388	1.8	10	4
9.9	35	□	MVS0990X35S100	348.3	381.8	384.8	439.8	438	1.8	10	4
10.0	3	●	MVS1000X03S100	31.8	51.8	51.8	107.8	106	1.8	10	2
10.0	5	●	MVS1000X05S100	51.8	81.8	81.8	137.8	136	1.8	10	2
10.0	8	●	MVS1000X08S100	81.8	111.8	111.8	167.8	166	1.8	10	2
10.0	10	●	MVS1000X10S100	101.8	131.8	134.8	189.8	188	1.8	10	4
10.0	15	●	MVS1000X15S100	151.8	181.8	184.8	239.8	238	1.8	10	4
10.0	20	●	MVS1000X20S100	201.8	231.8	234.8	289.8	288	1.8	10	4
10.0	25	●	MVS1000X25S100	251.8	281.8	284.8	339.8	338	1.8	10	4
10.0	30	●	MVS1000X30S100	301.8	331.8	334.8	389.8	388	1.8	10	4
10.0	35	●	MVS1000X35S100	351.8	381.8	384.8	439.8	438	1.8	10	4
10.1	3	●	MVS1010X03S110	32.1	54.3	56.8	117.8	116	1.8	11	2
10.1	3	●	MVS1010X03S120	32.1	54.3	56.8	117.8	116	1.8	12	2
10.1	5	●	MVS1010X05S110	52.3	85.8	89.8	150.8	149	1.8	11	2
10.1	5	●	MVS1010X05S120	52.3	85.8	89.8	150.8	149	1.8	12	2
10.1	8	●	MVS1010X08S110	82.6	117.8	122.8	183.8	182	1.8	11	2
10.1	8	●	MVS1010X08S120	82.6	117.8	122.8	183.8	182	1.8	12	2
10.1	10	●	MVS1010X10S110	102.8	138.8	141.8	202.8	201	1.8	11	4
10.1	15	●	MVS1010X15S110	153.3	190.8	193.8	254.8	253	1.8	11	4
10.1	20	●	MVS1010X20S110	203.8	243.8	246.8	307.8	306	1.8	11	4
10.1	25	●	MVS1010X25S110	254.3	295.8	298.8	359.8	358	1.8	11	4
10.2	3	●	MVS1020X03S110	32.5	54.4	56.9	117.9	116	1.9	11	2
10.2	3	●	MVS1020X03S120	32.5	54.4	56.9	117.9	116	1.9	12	2
10.2	5	●	MVS1020X05S110	52.9	85.9	89.9	150.9	149	1.9	11	2
10.2	5	●	MVS1020X05S120	52.9	85.9	89.9	150.9	149	1.9	12	2
10.2	8	●	MVS1020X08S110	83.5	117.9	122.9	183.9	182	1.9	11	2
10.2	8	●	MVS1020X08S120	83.5	117.9	122.9	183.9	182	1.9	12	2
10.2	10	●	MVS1020X10S110	103.9	138.9	141.9	202.9	201	1.9	11	4
10.2	15	●	MVS1020X15S110	154.9	190.9	193.9	254.9	253	1.9	11	4
10.2	20	●	MVS1020X20S110	205.9	243.9	246.9	307.9	306	1.9	11	4
10.2	25	●	MVS1020X25S110	256.9	295.9	298.9	359.9	358	1.9	11	4
10.3	3	●	MVS1030X03S110	32.8	54.4	56.9	117.9	116	1.9	11	2
10.3	3	●	MVS1030X03S120	32.8	54.4	56.9	117.9	116	1.9	12	2
10.3	5	●	MVS1030X05S110	53.4	85.9	89.9	150.9	149	1.9	11	2
10.3	5	●	MVS1030X05S120	53.4	85.9	89.9	150.9	149	1.9	12	2
10.3	8	●	MVS1030X08S110	84.3	117.9	122.9	183.9	182	1.9	11	2
10.3	8	●	MVS1030X08S120	84.3	117.9	122.9	183.9	182	1.9	12	2
10.3	10	●	MVS1030X10S110	104.9	138.9	141.9	202.9	201	1.9	11	4
10.3	15	●	MVS1030X15S110	156.4	190.9	193.9	254.9	253	1.9	11	4
10.3	20	●	MVS1030X20S110	207.9	243.9	246.9	307.9	306	1.9	11	4
10.3	25	●	MVS1030X25S110	259.4	295.9	298.9	359.9	358	1.9	11	4
10.4	3	●	MVS1040X03S110	33.1	54.4	56.9	117.9	116	1.9	11	2
10.4	3	●	MVS1040X03S120	33.1	54.4	56.9	117.9	116	1.9	12	2
10.4	5	●	MVS1040X05S110	53.9	85.9	89.9	150.9	149	1.9	11	2
10.4	5	●	MVS1040X05S120	53.9	85.9	89.9	150.9	149	1.9	12	2
10.4	8	●	MVS1040X08S110	85.1	117.9	122.9	183.9	182	1.9	11	2
10.4	8	●	MVS1040X08S120	85.1	117.9	122.9	183.9	182	1.9	12	2
10.4	10	●	MVS1040X10S110	105.9	138.9	141.9	202.9	201	1.9	11	4

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
10.4	15	●	MVS1040X15S110	157.9	190.9	193.9	254.9	253	1.9	11	4
10.4	20	●	MVS1040X20S110	209.9	243.9	246.9	307.9	306	1.9	11	4
10.4	25	●	MVS1040X25S110	261.9	295.9	298.9	359.9	358	1.9	11	4
10.5	3	●	MVS1050X03S110	33.4	54.4	56.9	117.9	116	1.9	11	2
10.5	3	●	MVS1050X03S120	33.4	54.4	56.9	117.9	116	1.9	12	2
10.5	5	●	MVS1050X05S110	54.4	85.9	89.9	150.9	149	1.9	11	2
10.5	5	●	MVS1050X05S120	54.4	85.9	89.9	150.9	149	1.9	12	2
10.5	8	●	MVS1050X08S110	85.9	117.9	122.9	183.9	182	1.9	11	2
10.5	8	●	MVS1050X08S120	85.9	117.9	122.9	183.9	182	1.9	12	2
10.5	10	●	MVS1050X10S110	106.9	138.9	141.9	202.9	201	1.9	11	4
10.5	15	●	MVS1050X15S110	159.4	190.9	193.9	254.9	253	1.9	11	4
10.5	20	●	MVS1050X20S110	211.9	243.9	246.9	307.9	306	1.9	11	4
10.5	25	●	MVS1050X25S110	264.4	295.9	298.9	359.9	358	1.9	11	4
10.6	3	●	MVS1060X03S110	33.7	56.9	56.9	117.9	116	1.9	11	2
10.6	3	●	MVS1060X03S120	33.7	56.9	57.9	117.9	116	1.9	12	2
10.6	5	●	MVS1060X05S110	54.9	89.9	89.9	150.9	149	1.9	11	2
10.6	5	●	MVS1060X05S120	54.9	89.9	90.9	150.9	149	1.9	12	2
10.6	8	●	MVS1060X08S110	86.7	122.9	122.9	183.9	182	1.9	11	2
10.6	8	●	MVS1060X08S120	86.7	122.9	123.9	183.9	182	1.9	12	2
10.6	10	●	MVS1060X10S110	107.9	144.9	147.9	208.9	207	1.9	11	4
10.6	15	●	MVS1060X15S110	160.9	199.9	202.9	263.9	262	1.9	11	4
10.6	20	●	MVS1060X20S110	213.9	254.9	257.9	318.9	317	1.9	11	4
10.6	25	●	MVS1060X25S110	266.9	309.9	312.9	373.9	372	1.9	11	4
10.7	3	●	MVS1070X03S110	34.0	56.9	56.9	117.9	116	1.9	11	2
10.7	3	●	MVS1070X03S120	34.0	56.9	57.9	117.9	116	1.9	12	2
10.7	5	●	MVS1070X05S110	55.4	89.9	89.9	150.9	149	1.9	11	2
10.7	5	●	MVS1070X05S120	55.4	89.9	90.9	150.9	149	1.9	12	2
10.7	8	●	MVS1070X08S110	87.5	122.9	122.9	183.9	182	1.9	11	2
10.7	8	●	MVS1070X08S120	87.5	122.9	123.9	183.9	182	1.9	12	2
10.7	10	●	MVS1070X10S110	108.9	144.9	147.9	208.9	207	1.9	11	4
10.7	15	●	MVS1070X15S110	162.4	199.9	202.9	263.9	262	1.9	11	4
10.7	20	●	MVS1070X20S110	215.9	254.9	257.9	318.9	317	1.9	11	4
10.7	25	●	MVS1070X25S110	269.4	309.9	312.9	373.9	372	1.9	11	4
10.8	3	●	MVS1080X03S110	34.4	57.0	57.0	118.0	116	2.0	11	2
10.8	3	●	MVS1080X03S120	34.4	57.0	58.0	118.0	116	2.0	12	2
10.8	5	●	MVS1080X05S110	56.0	90.0	90.0	151.0	149	2.0	11	2
10.8	5	●	MVS1080X05S120	56.0	90.0	91.0	151.0	149	2.0	12	2
10.8	8	●	MVS1080X08S110	88.4	123.0	123.0	184.0	182	2.0	11	2
10.8	8	●	MVS1080X08S120	88.4	123.0	124.0	184.0	182	2.0	12	2
10.8	10	●	MVS1080X10S110	110.0	145.0	148.0	209.0	207	2.0	11	4
10.8	15	●	MVS1080X15S110	164.0	200.0	203.0	264.0	262	2.0	11	4
10.8	20	●	MVS1080X20S110	218.0	255.0	258.0	319.0	317	2.0	11	4
10.8	25	●	MVS1080X25S110	272.0	310.0	313.0	374.0	372	2.0	11	4
10.9	3	●	MVS1090X03S110	34.7	57.0	57.0	118.0	116	2.0	11	2
10.9	3	●	MVS1090X03S120	34.7	57.0	58.0	118.0	116	2.0	12	2
10.9	5	●	MVS1090X05S110	56.5	90.0	90.0	151.0	149	2.0	11	2
10.9	5	●	MVS1090X05S120	56.5	90.0	91.0	151.0	149	2.0	12	2
10.9	8	●	MVS1090X08S110	89.2	123.0	123.0	184.0	182	2.0	11	2

P

钻头

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
10.9	8	●	MVS1090X08S120	89.2	123.0	124.0	184.0	182	2.0	12	2
10.9	10	●	MVS1090X10S110	111.0	145.0	148.0	209.0	207	2.0	11	4
10.9	15	●	MVS1090X15S110	165.5	200.0	203.0	264.0	262	2.0	11	4
10.9	20	●	MVS1090X20S110	220.0	255.0	258.0	319.0	317	2.0	11	4
10.9	25	●	MVS1090X25S110	274.5	310.0	313.0	374.0	372	2.0	11	4
11.0	3	●	MVS1100X03S110	35.0	57.0	57.0	118.0	116	2.0	11	2
11.0	3	●	MVS1100X03S120	35.0	57.0	58.0	118.0	116	2.0	12	2
11.0	5	●	MVS1100X05S110	57.0	90.0	90.0	151.0	149	2.0	11	2
11.0	5	●	MVS1100X05S120	57.0	90.0	91.0	151.0	149	2.0	12	2
11.0	8	●	MVS1100X08S110	90.0	123.0	123.0	184.0	182	2.0	11	2
11.0	8	●	MVS1100X08S120	90.0	123.0	124.0	184.0	182	2.0	12	2
11.0	10	●	MVS1100X10S110	112.0	145.0	147.0	209.0	207	2.0	11	4
11.0	15	●	MVS1100X15S110	167.0	200.0	203.0	264.0	262	2.0	11	4
11.0	20	●	MVS1100X20S110	222.0	255.0	258.0	319.0	317	2.0	11	4
11.0	25	●	MVS1100X25S110	277.0	310.0	313.0	374.0	372	2.0	11	4
11.1	3	●	MVS1110X03S120	35.3	59.5	62.0	124.0	122	2.0	12	2
11.1	5	●	MVS1110X05S120	57.5	94.0	98.0	160.0	158	2.0	12	2
11.1	8	●	MVS1110X08S120	90.8	129.0	134.0	196.0	194	2.0	12	2
11.1	10	●	MVS1110X10S120	113.0	152.0	155.0	217.0	215	2.0	12	4
11.1	15	●	MVS1110X15S120	168.5	209.0	212.0	274.0	272	2.0	12	4
11.1	20	●	MVS1110X20S120	224.0	267.0	270.0	332.0	330	2.0	12	4
11.1	25	●	MVS1110X25S120	279.5	324.0	327.0	389.0	387	2.0	12	4
11.2	3	●	MVS1120X03S120	35.6	59.5	62.0	124.0	122	2.0	12	2
11.2	5	●	MVS1120X05S120	58.0	94.0	98.0	160.0	158	2.0	12	2
11.2	8	●	MVS1120X08S120	91.6	129.0	134.0	196.0	194	2.0	12	2
11.2	10	●	MVS1120X10S120	114.0	152.0	155.0	217.0	215	2.0	12	4
11.2	15	●	MVS1120X15S120	170.0	209.0	212.0	274.0	272	2.0	12	4
11.2	20	●	MVS1120X20S120	226.0	267.0	270.0	332.0	330	2.0	12	4
11.2	25	●	MVS1120X25S120	282.0	324.0	327.0	389.0	387	2.0	12	4
11.3	3	●	MVS1130X03S120	36.0	59.6	62.1	124.1	122	2.1	12	2
11.3	5	●	MVS1130X05S120	58.6	94.1	98.1	160.1	158	2.1	12	2
11.3	8	●	MVS1130X08S120	92.5	129.1	134.1	196.1	194	2.1	12	2
11.3	10	●	MVS1130X10S120	115.1	152.1	155.1	217.1	215	2.1	12	4
11.3	15	●	MVS1130X15S120	171.6	209.1	212.1	274.1	272	2.1	12	4
11.3	20	●	MVS1130X20S120	228.1	267.1	270.1	332.1	330	2.1	12	4
11.3	25	●	MVS1130X25S120	284.6	324.1	327.1	389.1	387	2.1	12	4
11.4	3	●	MVS1140X03S120	36.3	59.6	62.1	124.1	122	2.1	12	2
11.4	5	●	MVS1140X05S120	59.1	94.1	98.1	160.1	158	2.1	12	2
11.4	8	●	MVS1140X08S120	93.3	129.1	134.1	196.1	194	2.1	12	2
11.4	10	●	MVS1140X10S120	116.1	152.1	155.1	217.1	215	2.1	12	4
11.4	15	●	MVS1140X15S120	173.1	209.1	212.1	274.1	272	2.1	12	4
11.4	20	●	MVS1140X20S120	230.1	267.1	270.1	332.1	330	2.1	12	4
11.4	25	●	MVS1140X25S120	287.1	324.1	327.1	389.1	387	2.1	12	4
11.5	3	●	MVS1150X03S120	36.6	59.6	62.1	124.1	122	2.1	12	2
11.5	5	●	MVS1150X05S120	59.6	94.1	98.1	160.1	158	2.1	12	2
11.5	8	●	MVS1150X08S120	94.1	129.1	134.1	196.1	194	2.1	12	2
11.5	10	●	MVS1150X10S120	117.1	152.1	155.1	217.1	215	2.1	12	4
11.5	15	●	MVS1150X15S120	174.6	209.1	212.1	274.1	272	2.1	12	4

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
11.5	20	●	MVS1150X20S120	232.1	267.1	270.1	332.1	330	2.1	12	4
11.5	25	●	MVS1150X25S120	289.6	324.1	327.1	389.1	387	2.1	12	4
11.6	3	●	MVS1160X03S120	36.9	62.1	62.1	124.1	122	2.1	12	2
11.6	5	●	MVS1160X05S120	60.1	98.1	98.1	160.1	158	2.1	12	2
11.6	8	●	MVS1160X08S120	94.9	134.1	134.1	196.1	194	2.1	12	2
11.6	10	●	MVS1160X10S120	118.1	158.1	161.1	223.1	221	2.1	12	4
11.6	15	●	MVS1160X15S120	176.1	218.1	221.1	283.1	281	2.1	12	4
11.6	20	●	MVS1160X20S120	234.1	278.1	281.1	343.1	341	2.1	12	4
11.6	25	●	MVS1160X25S120	292.1	338.1	341.1	403.1	401	2.1	12	4
11.7	3	●	MVS1170X03S120	37.2	62.1	62.1	124.1	122	2.1	12	2
11.7	5	●	MVS1170X05S120	60.6	98.1	98.1	160.1	158	2.1	12	2
11.7	8	●	MVS1170X08S120	95.7	134.1	134.1	196.1	194	2.1	12	2
11.7	10	●	MVS1170X10S120	119.1	158.1	161.1	223.1	221	2.1	12	4
11.7	15	●	MVS1170X15S120	177.6	218.1	221.1	283.1	281	2.1	12	4
11.7	20	●	MVS1170X20S120	236.1	278.1	281.1	343.1	341	2.1	12	4
11.7	25	●	MVS1170X25S120	294.6	338.1	341.1	403.1	401	2.1	12	4
11.8	3	●	MVS1180X03S120	37.5	62.1	62.1	124.1	122	2.1	12	2
11.8	5	●	MVS1180X05S120	61.1	98.1	98.1	160.1	158	2.1	12	2
11.8	8	●	MVS1180X08S120	96.5	134.1	134.1	196.1	194	2.1	12	2
11.8	10	●	MVS1180X10S120	120.1	158.1	161.1	223.1	221	2.1	12	4
11.8	15	●	MVS1180X15S120	179.1	218.1	221.1	283.1	281	2.1	12	4
11.8	20	●	MVS1180X20S120	238.1	278.1	281.1	343.1	341	2.1	12	4
11.8	25	●	MVS1180X25S120	297.1	338.1	341.1	403.1	401	2.1	12	4
11.9	3	●	MVS1190X03S120	37.9	62.2	62.2	124.2	122	2.2	12	2
11.9	5	●	MVS1190X05S120	61.7	98.2	98.2	160.2	158	2.2	12	2
11.9	8	●	MVS1190X08S120	97.4	134.2	134.2	196.2	194	2.2	12	2
11.9	10	●	MVS1190X10S120	121.2	158.2	161.2	223.2	221	2.2	12	4
11.9	15	●	MVS1190X15S120	180.7	218.2	221.2	283.2	281	2.2	12	4
11.9	20	●	MVS1190X20S120	240.2	278.2	281.2	343.2	341	2.2	12	4
11.9	25	●	MVS1190X25S120	299.7	338.2	341.2	403.2	401	2.2	12	4
12.0	3	●	MVS1200X03S120	38.2	62.2	62.2	124.2	122	2.2	12	2
12.0	5	●	MVS1200X05S120	62.2	98.2	98.2	160.2	158	2.2	12	2
12.0	8	●	MVS1200X08S120	98.2	134.2	134.2	196.2	194	2.2	12	2
12.0	10	●	MVS1200X10S120	122.2	158.2	161.2	223.2	221	2.2	12	4
12.0	15	●	MVS1200X15S120	182.2	218.2	221.2	283.2	281	2.2	12	4
12.0	20	●	MVS1200X20S120	242.2	278.2	281.2	343.2	341	2.2	12	4
12.0	25	●	MVS1200X25S120	302.2	338.2	341.2	403.2	401	2.2	12	4
12.1	3	●	MVS1210X03S130	38.5	64.7	67.2	130.2	128	2.2	13	2
12.1	3	□	MVS1210X03S140	38.5	64.7	67.2	130.2	128	2.2	14	2
12.1	5	●	MVS1210X05S130	62.7	102.2	106.2	169.2	167	2.2	13	2
12.1	5	□	MVS1210X05S140	62.7	102.2	106.2	169.2	167	2.2	14	2
12.1	8	□	MVS1210X08S130	99.0	140.2	145.2	208.2	206	2.2	13	2
12.1	8	□	MVS1210X08S140	99.0	140.2	145.2	208.2	206	2.2	14	2
12.1	10	□	MVS1210X10S130	123.2	165.2	168.2	231.2	229	2.2	13	4
12.1	15	□	MVS1210X15S130	183.7	227.2	230.2	293.2	291	2.2	13	4
12.1	20	□	MVS1210X20S130	244.2	290.2	293.2	356.2	354	2.2	13	4
12.2	3	●	MVS1220X03S130	38.8	64.7	67.2	130.2	128	2.2	13	2
12.2	3	□	MVS1220X03S140	38.8	64.7	67.2	130.2	128	2.2	14	2

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
12.2	5	●	MVS1220X05S130	63.2	102.2	106.2	169.2	167	2.2	13	2
12.2	5	□	MVS1220X05S140	63.2	102.2	106.2	169.2	167	2.2	14	2
12.2	8	□	MVS1220X08S130	99.8	140.2	145.2	208.2	206	2.2	13	2
12.2	8	□	MVS1220X08S140	99.8	140.2	145.2	208.2	206	2.2	14	2
12.2	10	□	MVS1220X10S130	124.2	165.2	168.2	231.2	229	2.2	13	4
12.2	15	□	MVS1220X15S130	185.2	227.2	230.2	293.2	291	2.2	13	4
12.2	20	□	MVS1220X20S130	246.2	290.2	293.2	356.2	354	2.2	13	4
12.3	3	●	MVS1230X03S130	39.1	64.7	67.2	130.2	128	2.2	13	2
12.3	3	□	MVS1230X03S140	39.1	64.7	67.2	130.2	128	2.2	14	2
12.3	5	●	MVS1230X05S130	63.7	102.2	106.2	169.2	167	2.2	13	2
12.3	5	□	MVS1230X05S140	63.7	102.2	106.2	169.2	167	2.2	14	2
12.3	8	□	MVS1230X08S130	100.6	140.2	145.2	208.2	206	2.2	13	2
12.3	8	□	MVS1230X08S140	100.6	140.2	145.2	208.2	206	2.2	14	2
12.3	10	□	MVS1230X10S130	125.2	165.2	168.2	231.2	229	2.2	13	4
12.3	15	□	MVS1230X15S130	186.7	227.2	230.2	293.2	291	2.2	13	4
12.3	20	□	MVS1230X20S130	248.2	290.2	293.2	356.2	354	2.2	13	4
12.4	3	●	MVS1240X03S130	39.5	64.8	67.3	130.3	128	2.3	13	2
12.4	3	□	MVS1240X03S140	39.5	64.8	67.3	130.3	128	2.3	14	2
12.4	5	●	MVS1240X05S130	64.3	102.3	106.3	169.3	167	2.3	13	2
12.4	5	□	MVS1240X05S140	64.3	102.3	106.3	169.3	167	2.3	14	2
12.4	8	□	MVS1240X08S130	101.5	140.3	145.3	208.3	206	2.3	13	2
12.4	8	□	MVS1240X08S140	101.5	140.3	145.3	208.3	206	2.3	14	2
12.4	10	□	MVS1240X10S130	126.3	165.3	168.3	231.3	229	2.3	13	4
12.4	15	□	MVS1240X15S130	188.3	227.3	230.3	293.3	291	2.3	13	4
12.4	20	□	MVS1240X20S130	250.3	290.3	293.3	356.3	354	2.3	13	4
12.5	3	●	MVS1250X03S130	39.8	64.8	67.3	130.3	128	2.3	13	2
12.5	3	□	MVS1250X03S140	39.8	64.8	67.3	130.3	128	2.3	14	2
12.5	5	●	MVS1250X05S130	64.8	102.3	106.3	169.3	167	2.3	13	2
12.5	5	□	MVS1250X05S140	64.8	102.3	106.3	169.3	167	2.3	14	2
12.5	8	●	MVS1250X08S130	102.3	140.3	145.3	208.3	206	2.3	13	2
12.5	8	□	MVS1250X08S140	102.3	140.3	145.3	208.3	206	2.3	14	2
12.5	10	●	MVS1250X10S130	127.3	165.3	168.3	231.3	229	2.3	13	4
12.5	15	●	MVS1250X15S130	189.8	227.3	230.3	293.3	291	2.3	13	4
12.5	20	●	MVS1250X20S130	252.3	290.3	293.3	356.3	354	2.3	13	4
12.6	3	●	MVS1260X03S130	40.1	67.3	67.3	130.3	128	2.3	13	2
12.6	3	□	MVS1260X03S140	40.1	67.3	67.3	130.3	128	2.3	14	2
12.6	5	●	MVS1260X05S130	65.3	106.3	106.3	169.3	167	2.3	13	2
12.6	5	□	MVS1260X05S140	65.3	106.3	106.3	169.3	167	2.3	14	2
12.6	8	□	MVS1260X08S130	103.1	145.3	145.3	208.3	206	2.3	13	2
12.6	8	□	MVS1260X08S140	103.1	145.3	145.3	208.3	206	2.3	14	2
12.6	10	□	MVS1260X10S130	128.3	171.3	174.3	237.3	235	2.3	13	4
12.6	15	□	MVS1260X15S130	191.3	236.3	239.3	302.3	300	2.3	13	4
12.6	20	□	MVS1260X20S130	254.3	301.3	304.3	367.3	365	2.3	13	4
12.7	3	●	MVS1270X03S130	40.4	67.3	67.3	130.3	128	2.3	13	2
12.7	3	□	MVS1270X03S140	40.4	67.3	67.3	130.3	128	2.3	14	2
12.7	5	●	MVS1270X05S130	65.8	106.3	106.3	169.3	167	2.3	13	2
12.7	5	□	MVS1270X05S140	65.8	106.3	106.3	169.3	167	2.3	14	2
12.7	8	□	MVS1270X08S130	103.9	145.3	145.3	208.3	206	2.3	13	2

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
12.7	8	□	MVS1270X08S140	103.9	145.3	145.3	208.3	206	2.3	14	2
12.7	10	□	MVS1270X10S130	129.3	171.3	174.3	237.3	235	2.3	13	4
12.7	15	□	MVS1270X15S130	192.8	236.3	239.3	302.3	300	2.3	13	4
12.7	20	□	MVS1270X20S130	256.3	301.3	304.3	367.3	365	2.3	13	4
12.8	3	●	MVS1280X03S130	40.7	67.3	67.3	130.3	128	2.3	13	2
12.8	3	□	MVS1280X03S140	40.7	67.3	67.3	130.3	128	2.3	14	2
12.8	5	●	MVS1280X05S130	66.3	106.3	106.3	169.3	167	2.3	13	2
12.8	5	□	MVS1280X05S140	66.3	106.3	106.3	169.3	167	2.3	14	2
12.8	8	□	MVS1280X08S130	104.7	145.3	145.3	208.3	206	2.3	13	2
12.8	8	□	MVS1280X08S140	104.7	145.3	145.3	208.3	206	2.3	14	2
12.8	10	□	MVS1280X10S130	130.3	171.3	174.3	237.3	235	2.3	13	4
12.8	15	□	MVS1280X15S130	194.3	236.3	239.3	302.3	300	2.3	13	4
12.8	20	□	MVS1280X20S130	258.3	301.3	304.3	367.3	365	2.3	13	4
12.9	3	●	MVS1290X03S130	41.0	67.3	67.3	130.3	128	2.3	13	2
12.9	3	□	MVS1290X03S140	41.0	67.3	67.3	130.3	128	2.3	14	2
12.9	5	●	MVS1290X05S130	66.8	106.3	106.3	169.3	167	2.3	13	2
12.9	5	□	MVS1290X05S140	66.8	106.3	106.3	169.3	167	2.3	14	2
12.9	8	□	MVS1290X08S130	105.5	145.3	145.3	208.3	206	2.3	13	2
12.9	8	□	MVS1290X08S140	105.5	145.3	145.3	208.3	206	2.3	14	2
12.9	10	□	MVS1290X10S130	131.3	171.3	174.3	237.3	235	2.3	13	4
12.9	15	□	MVS1290X15S130	195.8	236.3	239.3	302.3	300	2.3	13	4
12.9	20	□	MVS1290X20S130	260.3	301.3	304.3	367.3	365	2.3	13	4
13.0	3	●	MVS1300X03S130	41.4	67.4	67.4	130.4	128	2.4	13	2
13.0	3	□	MVS1300X03S140	41.4	67.4	67.4	130.4	128	2.4	14	2
13.0	5	●	MVS1300X05S130	67.4	106.4	106.4	169.4	167	2.4	13	2
13.0	5	□	MVS1300X05S140	67.4	106.4	106.4	169.4	167	2.4	14	2
13.0	8	●	MVS1300X08S130	106.4	145.4	145.4	208.4	206	2.4	13	2
13.0	8	□	MVS1300X08S140	106.4	145.4	145.4	208.4	206	2.4	14	2
13.0	10	●	MVS1300X10S130	132.4	171.4	174.4	237.4	235	2.4	13	4
13.0	15	●	MVS1300X15S130	197.4	236.4	239.4	302.4	300	2.4	13	4
13.0	20	●	MVS1300X20S130	262.4	301.4	304.4	367.4	365	2.4	13	4
13.1	3	●	MVS1310X03S140	41.7	69.9	72.4	136.4	134	2.4	14	2
13.1	5	●	MVS1310X05S140	67.9	110.4	114.4	178.4	176	2.4	14	2
13.1	8	□	MVS1310X08S140	107.2	151.4	156.4	220.4	218	2.4	14	2
13.1	10	□	MVS1310X10S140	133.4	178.4	181.4	245.4	243	2.4	14	4
13.1	15	□	MVS1310X15S140	198.9	245.4	248.4	312.4	310	2.4	14	4
13.1	20	□	MVS1310X20S140	264.4	313.4	316.4	380.4	378	2.4	14	4
13.2	3	●	MVS1320X03S140	42.0	69.9	72.4	136.4	134	2.4	14	2
13.2	5	●	MVS1320X05S140	68.4	110.4	114.4	178.4	176	2.4	14	2
13.2	8	□	MVS1320X08S140	108.0	151.4	156.4	220.4	218	2.4	14	2
13.2	10	□	MVS1320X10S140	134.4	178.4	181.4	245.4	243	2.4	14	4
13.2	15	□	MVS1320X15S140	200.4	245.4	248.4	312.4	310	2.4	14	4
13.2	20	□	MVS1320X20S140	266.4	313.4	316.4	380.4	378	2.4	14	4
13.3	3	●	MVS1330X03S140	42.3	69.9	72.4	136.4	134	2.4	14	2
13.3	5	●	MVS1330X05S140	68.9	110.4	114.4	178.4	176	2.4	14	2
13.3	8	□	MVS1330X08S140	108.8	151.4	156.4	220.4	218	2.4	14	2
13.3	10	□	MVS1330X10S140	135.4	178.4	181.4	245.4	243	2.4	14	4
13.3	15	□	MVS1330X15S140	201.9	245.4	248.4	312.4	310	2.4	14	4

P

钻头

钻孔 [整体硬质合金钻头]

MVS

WSTAR钻头

硬质合金

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
13.3	20	□	MVS1330X20S140	268.4	313.4	316.4	380.4	378	2.4	14	4
13.4	3	●	MVS1340X03S140	42.6	69.9	72.4	136.4	134	2.4	14	2
13.4	5	●	MVS1340X05S140	69.4	110.4	114.4	178.4	176	2.4	14	2
13.4	8	□	MVS1340X08S140	109.6	151.4	156.4	220.4	218	2.4	14	2
13.4	10	□	MVS1340X10S140	136.4	178.4	181.4	245.4	243	2.4	14	4
13.4	15	□	MVS1340X15S140	203.4	245.4	248.4	312.4	310	2.4	14	4
13.4	20	□	MVS1340X20S140	270.4	313.4	316.4	380.4	378	2.4	14	4
13.5	3	●	MVS1350X03S140	43.0	70.0	72.5	136.5	134	2.5	14	2
13.5	5	●	MVS1350X05S140	70.0	110.5	114.5	178.5	176	2.5	14	2
13.5	8	●	MVS1350X08S140	110.5	151.5	156.5	220.5	218	2.5	14	2
13.5	10	●	MVS1350X10S140	137.5	178.5	181.5	245.5	243	2.5	14	4
13.5	15	●	MVS1350X15S140	205.0	245.5	248.5	312.5	310	2.5	14	4
13.5	20	●	MVS1350X20S140	272.5	313.5	316.5	380.5	378	2.5	14	4
13.6	3	●	MVS1360X03S140	43.3	72.5	72.5	136.5	134	2.5	14	2
13.6	5	●	MVS1360X05S140	70.5	114.5	114.5	178.5	176	2.5	14	2
13.6	8	□	MVS1360X08S140	111.3	156.5	156.5	220.5	218	2.5	14	2
13.6	10	□	MVS1360X10S140	138.5	184.5	187.5	251.5	249	2.5	14	4
13.6	15	□	MVS1360X15S140	206.5	254.5	257.5	321.5	319	2.5	14	4
13.6	20	□	MVS1360X20S140	274.5	324.5	327.5	391.5	389	2.5	14	4
13.7	3	●	MVS1370X03S140	43.6	72.5	72.5	136.5	134	2.5	14	2
13.7	5	●	MVS1370X05S140	71.0	114.5	114.5	178.5	176	2.5	14	2
13.7	8	□	MVS1370X08S140	112.1	156.5	156.5	220.5	218	2.5	14	2
13.7	10	□	MVS1370X10S140	139.5	184.5	187.5	251.5	249	2.5	14	4
13.7	15	□	MVS1370X15S140	208.0	254.5	257.5	321.5	319	2.5	14	4
13.7	20	□	MVS1370X20S140	276.5	324.5	327.5	391.5	389	2.5	14	4
13.8	3	●	MVS1380X03S140	43.9	72.5	72.5	136.5	134	2.5	14	2
13.8	5	●	MVS1380X05S140	71.5	114.5	114.5	178.5	176	2.5	14	2
13.8	8	□	MVS1380X08S140	112.9	156.5	156.5	220.5	218	2.5	14	2
13.8	10	□	MVS1380X10S140	140.5	184.5	187.5	251.5	249	2.5	14	4
13.8	15	□	MVS1380X15S140	209.5	254.5	257.5	321.5	319	2.5	14	4
13.8	20	□	MVS1380X20S140	278.5	324.5	327.5	391.5	389	2.5	14	4
13.9	3	●	MVS1390X03S140	44.2	72.5	72.5	136.5	134	2.5	14	2
13.9	5	●	MVS1390X05S140	72.0	114.5	114.5	178.5	176	2.5	14	2
13.9	8	□	MVS1390X08S140	113.7	156.5	156.5	220.5	218	2.5	14	2
13.9	10	□	MVS1390X10S140	141.5	184.5	187.5	251.5	249	2.5	14	4
13.9	15	□	MVS1390X15S140	211.0	254.5	257.5	321.5	319	2.5	14	4
13.9	20	□	MVS1390X20S140	280.5	324.5	327.5	391.5	389	2.5	14	4
14.0	3	●	MVS1400X03S140	44.5	72.5	72.5	136.5	134	2.5	14	2
14.0	5	●	MVS1400X05S140	72.5	114.5	114.5	178.5	176	2.5	14	2
14.0	8	●	MVS1400X08S140	114.5	156.5	156.5	220.5	218	2.5	14	2
14.0	10	●	MVS1400X10S140	142.5	184.5	187.5	251.5	249	2.5	14	4
14.0	15	●	MVS1400X15S140	212.5	254.5	257.5	321.5	319	2.5	14	4
14.0	20	●	MVS1400X20S140	282.5	324.5	327.5	391.5	389	2.5	14	4
14.1	3	●	MVS1410X03S150	44.9	75.1	77.6	142.6	140	2.6	15	2
14.1	3	□	MVS1410X03S160	44.9	75.1	77.6	142.6	140	2.6	16	2
14.1	5	●	MVS1410X05S150	73.1	118.6	122.6	187.6	185	2.6	15	2
14.1	5	□	MVS1410X05S160	73.1	118.6	122.6	187.6	185	2.6	16	2
14.1	8	□	MVS1410X08S150	115.4	162.6	167.6	227.6	225	2.6	15	2

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
14.1	8	□	MVS1410X08S160	115.4	162.6	167.6	227.6	225	2.6	16	2
14.2	3	●	MVS1420X03S150	45.2	75.1	77.6	142.6	140	2.6	15	2
14.2	3	□	MVS1420X03S160	45.2	75.1	77.6	142.6	140	2.6	16	2
14.2	5	●	MVS1420X05S150	73.6	118.6	122.6	187.6	185	2.6	15	2
14.2	5	□	MVS1420X05S160	73.6	118.6	122.6	187.6	185	2.6	16	2
14.2	8	●	MVS1420X08S150	116.2	162.6	167.6	227.6	225	2.6	15	2
14.2	8	□	MVS1420X08S160	116.2	162.6	167.6	227.6	225	2.6	16	2
14.3	3	●	MVS1430X03S150	45.5	75.1	77.6	142.6	140	2.6	15	2
14.3	3	□	MVS1430X03S160	45.5	75.1	77.6	142.6	140	2.6	16	2
14.3	5	●	MVS1430X05S150	74.1	118.6	122.6	187.6	185	2.6	15	2
14.3	5	□	MVS1430X05S160	74.1	118.6	122.6	187.6	185	2.6	16	2
14.3	8	□	MVS1430X08S150	117.0	162.6	167.6	227.6	225	2.6	15	2
14.3	8	□	MVS1430X08S160	117.0	162.6	167.6	227.6	225	2.6	16	2
14.4	3	●	MVS1440X03S150	45.8	75.1	77.6	142.6	140	2.6	15	2
14.4	3	□	MVS1440X03S160	45.8	75.1	77.6	142.6	140	2.6	16	2
14.4	5	●	MVS1440X05S150	74.6	118.6	122.6	187.6	185	2.6	15	2
14.4	5	□	MVS1440X05S160	74.6	118.6	122.6	187.6	185	2.6	16	2
14.4	8	□	MVS1440X08S150	117.8	162.6	167.6	227.6	225	2.6	15	2
14.4	8	□	MVS1440X08S160	117.8	162.6	167.6	227.6	225	2.6	16	2
14.5	3	●	MVS1450X03S150	46.1	75.1	77.6	142.6	140	2.6	15	2
14.5	3	□	MVS1450X03S160	46.1	75.1	77.6	142.6	140	2.6	16	2
14.5	5	●	MVS1450X05S150	75.1	118.6	122.6	187.6	185	2.6	15	2
14.5	5	□	MVS1450X05S160	75.1	118.6	122.6	187.6	185	2.6	16	2
14.5	8	●	MVS1450X08S150	118.6	162.6	167.6	227.6	225	2.6	15	2
14.5	8	□	MVS1450X08S160	118.6	162.6	167.6	227.6	225	2.6	16	2
14.6	3	●	MVS1460X03S150	46.5	77.7	77.7	142.7	140	2.7	15	2
14.6	3	□	MVS1460X03S160	46.5	77.7	77.7	142.7	140	2.7	16	2
14.6	5	●	MVS1460X05S150	75.7	122.7	122.7	187.7	185	2.7	15	2
14.6	5	□	MVS1460X05S160	75.7	122.7	122.7	187.7	185	2.7	16	2
14.6	8	□	MVS1460X08S150	119.5	167.7	167.7	227.7	225	2.7	15	2
14.6	8	□	MVS1460X08S160	119.5	167.7	167.7	227.7	225	2.7	16	2
14.7	3	●	MVS1470X03S150	46.8	77.7	77.7	142.7	140	2.7	15	2
14.7	3	□	MVS1470X03S160	46.8	77.7	77.7	142.7	140	2.7	16	2
14.7	5	●	MVS1470X05S150	76.2	122.7	122.7	187.7	185	2.7	15	2
14.7	5	□	MVS1470X05S160	76.2	122.7	122.7	187.7	185	2.7	16	2
14.7	8	□	MVS1470X08S150	120.3	167.7	167.7	227.7	225	2.7	15	2
14.7	8	□	MVS1470X08S160	120.3	167.7	167.7	227.7	225	2.7	16	2
14.8	3	●	MVS1480X03S150	47.1	77.7	77.7	142.7	140	2.7	15	2
14.8	3	□	MVS1480X03S160	47.1	77.7	77.7	142.7	140	2.7	16	2
14.8	5	●	MVS1480X05S150	76.7	122.7	122.7	187.7	185	2.7	15	2
14.8	5	□	MVS1480X05S160	76.7	122.7	122.7	187.7	185	2.7	16	2
14.8	8	□	MVS1480X08S150	121.1	167.7	167.7	227.7	225	2.7	15	2
14.8	8	□	MVS1480X08S160	121.1	167.7	167.7	227.7	225	2.7	16	2
14.9	3	●	MVS1490X03S150	47.4	77.7	77.7	142.7	140	2.7	15	2
14.9	3	□	MVS1490X03S160	47.4	77.7	77.7	142.7	140	2.7	16	2
14.9	5	●	MVS1490X05S150	77.2	122.7	122.7	187.7	185	2.7	15	2
14.9	5	□	MVS1490X05S160	77.2	122.7	122.7	187.7	185	2.7	16	2
14.9	8	□	MVS1490X08S150	121.9	167.7	167.7	227.7	225	2.7	15	2

●：标准库存品 □：预订生产品

P
钻头

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
14.9	8	□	MVS1490X08S160	121.9	167.7	167.7	227.7	225	2.7	16	2
15.0	3	●	MVS1500X03S150	47.7	77.7	77.7	142.7	140	2.7	15	2
15.0	3	□	MVS1500X03S160	47.7	77.7	77.7	142.7	140	2.7	16	2
15.0	5	●	MVS1500X05S150	77.7	122.7	122.7	187.7	185	2.7	15	2
15.0	5	□	MVS1500X05S160	77.7	122.7	122.7	187.7	185	2.7	16	2
15.0	8	●	MVS1500X08S150	122.7	167.7	167.7	227.7	225	2.7	15	2
15.0	8	□	MVS1500X08S160	122.7	167.7	167.7	227.7	225	2.7	16	2
15.1	3	●	MVS1510X03S160	48.0	80.2	82.7	147.7	145	2.7	16	2
15.1	5	●	MVS1510X05S160	78.2	126.7	130.7	195.7	193	2.7	16	2
15.1	8	□	MVS1510X08S160	123.5	173.7	183.7	243.7	241	2.7	16	2
15.2	3	●	MVS1520X03S160	48.4	80.3	82.8	147.8	145	2.8	16	2
15.2	5	●	MVS1520X05S160	78.8	126.8	130.8	195.8	193	2.8	16	2
15.2	8	□	MVS1520X08S160	124.4	173.8	183.8	243.8	241	2.8	16	2
15.3	3	●	MVS1530X03S160	48.7	80.3	82.8	147.8	145	2.8	16	2
15.3	5	●	MVS1530X05S160	79.3	126.8	130.8	195.8	193	2.8	16	2
15.3	8	□	MVS1530X08S160	125.2	173.8	183.8	243.8	241	2.8	16	2
15.4	3	●	MVS1540X03S160	49.0	80.3	82.8	147.8	145	2.8	16	2
15.4	5	●	MVS1540X05S160	79.8	126.8	130.8	195.8	193	2.8	16	2
15.4	8	□	MVS1540X08S160	126.0	173.8	183.8	243.8	241	2.8	16	2
15.5	3	●	MVS1550X03S160	49.3	80.3	82.8	147.8	145	2.8	16	2
15.5	5	●	MVS1550X05S160	80.3	126.8	130.8	195.8	193	2.8	16	2
15.5	8	●	MVS1550X08S160	126.8	173.8	183.8	243.8	241	2.8	16	2
15.6	3	●	MVS1560X03S160	49.6	82.8	82.8	147.8	145	2.8	16	2
15.6	5	●	MVS1560X05S160	80.8	130.8	130.8	195.8	193	2.8	16	2
15.6	8	□	MVS1560X08S160	127.6	178.8	183.8	243.8	241	2.8	16	2
15.7	3	●	MVS1570X03S160	50.0	82.9	82.9	147.9	145	2.9	16	2
15.7	5	●	MVS1570X05S160	81.4	130.9	130.9	195.9	193	2.9	16	2
15.7	8	□	MVS1570X08S160	128.5	178.9	183.9	243.9	241	2.9	16	2
15.8	3	●	MVS1580X03S160	50.3	82.9	82.9	147.9	145	2.9	16	2
15.8	5	●	MVS1580X05S160	81.9	130.9	130.9	195.9	193	2.9	16	2
15.8	8	□	MVS1580X08S160	129.3	178.9	183.9	243.9	241	2.9	16	2
15.9	3	●	MVS1590X03S160	50.6	82.9	82.9	147.9	145	2.9	16	2
15.9	5	●	MVS1590X05S160	82.4	130.9	130.9	195.9	193	2.9	16	2
15.9	8	□	MVS1590X08S160	130.1	178.9	183.9	243.9	241	2.9	16	2
16.0	3	●	MVS1600X03S160	50.9	82.9	82.9	147.9	145	2.9	16	2
16.0	5	●	MVS1600X05S160	82.9	130.9	130.9	195.9	193	2.9	16	2
16.0	8	●	MVS1600X08S160	130.9	178.9	183.9	243.9	241	2.9	16	2
16.1	3	□	MVS1610X03S170	51.2	85.4	87.9	152.9	150	2.9	17	2
16.1	3	□	MVS1610X03S180	51.2	85.4	87.9	152.9	150	2.9	18	2
16.1	5	□	MVS1610X05S170	83.4	134.9	138.9	203.9	201	2.9	17	2
16.1	5	□	MVS1610X05S180	83.4	134.9	138.9	203.9	201	2.9	18	2
16.2	3	□	MVS1620X03S170	51.5	85.4	87.9	152.9	150	2.9	17	2
16.2	3	□	MVS1620X03S180	51.5	85.4	87.9	152.9	150	2.9	18	2
16.2	5	□	MVS1620X05S170	83.9	134.9	138.9	203.9	201	2.9	17	2
16.2	5	□	MVS1620X05S180	83.9	134.9	138.9	203.9	201	2.9	18	2
16.3	3	□	MVS1630X03S170	51.9	85.5	88.0	153.0	150	3.0	17	2
16.3	3	□	MVS1630X03S180	51.9	85.5	88.0	153.0	150	3.0	18	2
16.3	5	□	MVS1630X05S170	84.5	135.0	139.0	204.0	201	3.0	17	2

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
16.3	5	□	MVS1630X05S180	84.5	135.0	139.0	204.0	201	3.0	18	2
16.4	3	□	MVS1640X03S170	52.2	85.5	88.0	153.0	150	3.0	17	2
16.4	3	□	MVS1640X03S180	52.2	85.5	88.0	153.0	150	3.0	18	2
16.4	5	□	MVS1640X05S170	85.0	135.0	139.0	204.0	201	3.0	17	2
16.4	5	□	MVS1640X05S180	85.0	135.0	139.0	204.0	201	3.0	18	2
16.5	3	●	MVS1650X03S170	52.5	85.5	88.0	153.0	150	3.0	17	2
16.5	3	□	MVS1650X03S180	52.5	85.5	88.0	153.0	150	3.0	18	2
16.5	5	●	MVS1650X05S170	85.5	135.0	139.0	204.0	201	3.0	17	2
16.5	5	□	MVS1650X05S180	85.5	135.0	139.0	204.0	201	3.0	18	2
16.6	3	□	MVS1660X03S170	52.8	88.0	88.0	153.0	150	3.0	17	2
16.6	3	□	MVS1660X03S180	52.8	88.0	88.0	153.0	150	3.0	18	2
16.6	5	□	MVS1660X05S170	86.0	139.0	139.0	204.0	201	3.0	17	2
16.6	5	□	MVS1660X05S180	86.0	139.0	139.0	204.0	201	3.0	18	2
16.7	3	□	MVS1670X03S170	53.1	88.0	88.0	153.0	150	3.0	17	2
16.7	3	□	MVS1670X03S180	53.1	88.0	88.0	153.0	150	3.0	18	2
16.7	5	□	MVS1670X05S170	86.5	139.0	139.0	204.0	201	3.0	17	2
16.7	5	□	MVS1670X05S180	86.5	139.0	139.0	204.0	201	3.0	18	2
16.8	3	□	MVS1680X03S170	53.5	88.1	88.1	153.1	150	3.1	17	2
16.8	3	□	MVS1680X03S180	53.5	88.1	88.1	153.1	150	3.1	18	2
16.8	5	□	MVS1680X05S170	87.1	139.1	139.1	204.1	201	3.1	17	2
16.8	5	□	MVS1680X05S180	87.1	139.1	139.1	204.1	201	3.1	18	2
16.9	3	□	MVS1690X03S170	53.8	88.1	88.1	153.1	150	3.1	17	2
16.9	3	□	MVS1690X03S180	53.8	88.1	88.1	153.1	150	3.1	18	2
16.9	5	□	MVS1690X05S170	87.6	139.1	139.1	204.1	201	3.1	17	2
16.9	5	□	MVS1690X05S180	87.6	139.1	139.1	204.1	201	3.1	18	2
17.0	3	●	MVS1700X03S170	54.1	88.1	88.1	153.1	150	3.1	17	2
17.0	3	□	MVS1700X03S180	54.1	88.1	88.1	153.1	150	3.1	18	2
17.0	5	●	MVS1700X05S170	88.1	139.1	139.1	204.1	201	3.1	17	2
17.0	5	□	MVS1700X05S180	88.1	139.1	139.1	204.1	201	3.1	18	2
17.1	3	□	MVS1710X03S180	54.4	90.6	93.1	158.1	155	3.1	18	2
17.1	5	□	MVS1710X05S180	88.6	143.1	147.1	212.1	209	3.1	18	2
17.2	3	□	MVS1720X03S180	54.7	90.6	93.1	158.1	155	3.1	18	2
17.2	5	□	MVS1720X05S180	89.1	143.1	147.1	212.1	209	3.1	18	2
17.3	3	□	MVS1730X03S180	55.0	90.6	93.1	158.1	155	3.1	18	2
17.3	5	□	MVS1730X05S180	89.6	143.1	147.1	212.1	209	3.1	18	2
17.4	3	□	MVS1740X03S180	55.4	90.7	93.2	158.2	155	3.2	18	2
17.4	5	□	MVS1740X05S180	90.2	143.2	147.2	212.2	209	3.2	18	2
17.5	3	●	MVS1750X03S180	55.7	90.7	93.2	158.2	155	3.2	18	2
17.5	5	●	MVS1750X05S180	90.7	143.2	147.2	212.2	209	3.2	18	2
17.6	3	□	MVS1760X03S180	56.0	93.2	93.2	158.2	155	3.2	18	2
17.6	5	□	MVS1760X05S180	91.2	147.2	147.2	212.2	209	3.2	18	2
17.7	3	□	MVS1770X03S180	56.3	93.2	93.2	158.2	155	3.2	18	2
17.7	5	□	MVS1770X05S180	91.7	147.2	147.2	212.2	209	3.2	18	2
17.8	3	□	MVS1780X03S180	56.6	93.2	93.2	158.2	155	3.2	18	2
17.8	5	□	MVS1780X05S180	92.2	147.2	147.2	212.2	209	3.2	18	2
17.9	3	□	MVS1790X03S180	57.0	93.3	93.3	158.3	155	3.3	18	2
17.9	5	□	MVS1790X05S180	92.8	147.3	147.3	212.3	209	3.3	18	2
18.0	3	●	MVS1800X03S180	57.3	93.3	93.3	158.3	155	3.3	18	2

P

钻头

MVS
 WSTAR钻头

硬质合金

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
18.0	5	●	MVS1800X05S180	93.3	147.3	147.3	212.3	209	3.3	18	2
18.1	3	□	MVS1810X03S190	57.6	95.8	98.3	163.3	160	3.3	19	2
18.1	3	□	MVS1810X03S200	57.6	95.8	98.3	163.3	160	3.3	20	2
18.1	5	□	MVS1810X05S190	93.8	151.3	155.3	220.3	217	3.3	19	2
18.1	5	□	MVS1810X05S200	93.8	151.3	155.3	220.3	217	3.3	20	2
18.2	3	□	MVS1820X03S190	57.9	95.8	98.3	163.3	160	3.3	19	2
18.2	3	□	MVS1820X03S200	57.9	95.8	98.3	163.3	160	3.3	20	2
18.2	5	□	MVS1820X05S190	94.3	151.3	155.3	220.3	217	3.3	19	2
18.2	5	□	MVS1820X05S200	94.3	151.3	155.3	220.3	217	3.3	20	2
18.3	3	□	MVS1830X03S190	58.2	95.8	98.3	163.3	160	3.3	19	2
18.3	3	□	MVS1830X03S200	58.2	95.8	98.3	163.3	160	3.3	20	2
18.3	5	□	MVS1830X05S190	94.8	151.3	155.3	220.3	217	3.3	19	2
18.3	5	□	MVS1830X05S200	94.8	151.3	155.3	220.3	217	3.3	20	2
18.4	3	□	MVS1840X03S190	58.5	95.8	98.3	163.3	160	3.3	19	2
18.4	3	□	MVS1840X03S200	58.5	95.8	98.3	163.3	160	3.3	20	2
18.4	5	□	MVS1840X05S190	95.3	151.3	155.3	220.3	217	3.3	19	2
18.4	5	□	MVS1840X05S200	95.3	151.3	155.3	220.3	217	3.3	20	2
18.5	3	●	MVS1850X03S190	58.9	95.9	98.4	163.4	160	3.4	19	2
18.5	3	□	MVS1850X03S200	58.9	95.9	98.4	163.4	160	3.4	20	2
18.5	5	●	MVS1850X05S190	95.9	151.4	155.4	220.4	217	3.4	19	2
18.5	5	□	MVS1850X05S200	95.9	151.4	155.4	220.4	217	3.4	20	2
18.6	3	□	MVS1860X03S190	59.2	98.4	98.4	163.4	160	3.4	19	2
18.6	3	□	MVS1860X03S200	59.2	98.4	98.4	163.4	160	3.4	20	2
18.6	5	□	MVS1860X05S190	96.4	155.4	155.4	220.4	217	3.4	19	2
18.6	5	□	MVS1860X05S200	96.4	155.4	155.4	220.4	217	3.4	20	2
18.7	3	□	MVS1870X03S190	59.5	98.4	98.4	163.4	160	3.4	19	2
18.7	3	□	MVS1870X03S200	59.5	98.4	98.4	163.4	160	3.4	20	2
18.7	5	□	MVS1870X05S190	96.9	155.4	155.4	220.4	217	3.4	19	2
18.7	5	□	MVS1870X05S200	96.9	155.4	155.4	220.4	217	3.4	20	2
18.8	3	□	MVS1880X03S190	59.8	98.4	98.4	163.4	160	3.4	19	2
18.8	3	□	MVS1880X03S200	59.8	98.4	98.4	163.4	160	3.4	20	2
18.8	5	□	MVS1880X05S190	97.4	155.4	155.4	220.4	217	3.4	19	2
18.8	5	□	MVS1880X05S200	97.4	155.4	155.4	220.4	217	3.4	20	2
18.9	3	□	MVS1890X03S190	60.1	98.4	98.4	163.4	160	3.4	19	2
18.9	3	□	MVS1890X03S200	60.1	98.4	98.4	163.4	160	3.4	20	2
18.9	5	□	MVS1890X05S190	97.9	155.4	155.4	220.4	217	3.4	19	2
18.9	5	□	MVS1890X05S200	97.9	155.4	155.4	220.4	217	3.4	20	2
19.0	3	●	MVS1900X03S190	60.5	98.5	98.5	163.5	160	3.5	19	2
19.0	3	□	MVS1900X03S200	60.5	98.5	98.5	163.5	160	3.5	20	2
19.0	5	●	MVS1900X05S190	98.5	155.5	155.5	220.5	217	3.5	19	2
19.0	5	□	MVS1900X05S200	98.5	155.5	155.5	220.5	217	3.5	20	2
19.1	3	□	MVS1910X03S200	60.8	101.0	103.5	168.5	165	3.5	20	2
19.1	5	□	MVS1910X05S200	99.0	159.5	163.5	228.5	225	3.5	20	2
19.2	3	□	MVS1920X03S200	61.1	101.0	103.5	168.5	165	3.5	20	2
19.2	5	□	MVS1920X05S200	99.5	159.5	163.5	228.5	225	3.5	20	2
19.3	3	□	MVS1930X03S200	61.4	101.0	103.5	168.5	165	3.5	20	2
19.3	5	□	MVS1930X05S200	100.0	159.5	163.5	228.5	225	3.5	20	2
19.4	3	□	MVS1940X03S200	61.7	101.0	103.5	168.5	165	3.5	20	2

DC	钻削孔深 (mm)(L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
19.4	5	□	MVS1940X05S200	100.5	159.5	163.5	228.5	225	3.5	20	2
19.5	3	●	MVS1950X03S200	62.0	101.0	103.5	168.5	165	3.5	20	2
19.5	5	●	MVS1950X05S200	101.0	159.5	163.5	228.5	225	3.5	20	2
19.6	3	□	MVS1960X03S200	62.4	103.6	103.6	168.6	165	3.6	20	2
19.6	5	□	MVS1960X05S200	101.6	163.6	163.6	228.6	225	3.6	20	2
19.7	3	□	MVS1970X03S200	62.7	103.6	103.6	168.6	165	3.6	20	2
19.7	5	□	MVS1970X05S200	102.1	163.6	163.6	228.6	225	3.6	20	2
19.8	3	□	MVS1980X03S200	63.0	103.6	103.6	168.6	165	3.6	20	2
19.8	5	□	MVS1980X05S200	102.6	163.6	163.6	228.6	225	3.6	20	2
19.9	3	□	MVS1990X03S200	63.3	103.6	103.6	168.6	165	3.6	20	2
19.9	5	□	MVS1990X05S200	103.1	163.6	163.6	228.6	225	3.6	20	2
20.0	3	●	MVS2000X03S200	63.6	103.6	103.6	168.6	165	3.6	20	2
20.0	5	●	MVS2000X05S200	103.6	163.6	163.6	228.6	225	3.6	20	2

●：标准库存品 □：预订生产品

P
 钻头

推荐切削条件

工件材料		软钢 (≤180HB)		碳钢、合金钢 (180—280HB)		碳钢、合金钢 (280—350HB)	
		SS400、S10C等		S45C、SCM440等		SNCM439等	
直径 DC (mm)	L/D	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)
1.0	2DC*,7DC	15900	0.04 (0.02—0.05)	15900	0.04 (0.02—0.05)	12700	0.04 (0.02—0.05)
1.0	12DC - 30DC	15900	0.02 (0.01—0.03)	12700	0.02 (0.01—0.03)	9500	0.02 (0.01—0.03)
1.5	2DC*,7DC	10600	0.05 (0.03—0.08)	10600	0.05 (0.03—0.08)	8400	0.05 (0.03—0.08)
1.5	12DC - 30DC	10600	0.05 (0.02—0.07)	8400	0.05 (0.03—0.08)	6300	0.05 (0.02—0.08)
2.0	2DC*,7DC	7900	0.07 (0.04—0.10)	7900	0.07 (0.04—0.10)	6300	0.07 (0.04—0.10)
2.0	12DC - 30DC	7900	0.07 (0.04—0.10)	7900	0.07 (0.04—0.10)	7900	0.07 (0.04—0.10)
2.5	2DC*,7DC	7600	0.09 (0.05—0.13)	6300	0.09 (0.05—0.13)	6300	0.09 (0.05—0.13)
2.5	12DC - 30DC	7600	0.09 (0.06—0.13)	6300	0.08 (0.05—0.13)	6300	0.08 (0.05—0.13)
3.0	2DC*	9500	0.17 (0.10—0.24)	9500	0.17 (0.10—0.24)	7400	0.15 (0.09—0.22)
3.0	3DC - 8DC	9500	0.10 (0.06—0.13)	9500	0.10 (0.06—0.13)	7400	0.10 (0.06—0.13)
3.0	10DC - 30DC	9500	0.17 (0.10—0.24)	9500	0.17 (0.10—0.24)	8400	0.15 (0.09—0.22)
3.0	35DC,40DC	7400	0.14 (0.08—0.19)	7400	0.14 (0.08—0.19)	6300	0.13 (0.07—0.18)
4.0	2DC*	7900	0.20 (0.12—0.30)	7100	0.20 (0.12—0.30)	6300	0.18 (0.11—0.27)
4.0	3DC - 8DC	7900	0.12 (0.08—0.16)	7100	0.12 (0.08—0.16)	6300	0.11 (0.07—0.14)
4.0	10DC - 30DC	7100	0.20 (0.12—0.30)	7100	0.20 (0.12—0.30)	6300	0.18 (0.11—0.27)
4.0	35DC,40DC	5900	0.16 (0.10—0.24)	5900	0.16 (0.10—0.24)	5100	0.15 (0.09—0.22)
5.0	2DC*	6300	0.25 (0.15—0.35)	5700	0.25 (0.15—0.35)	5000	0.22 (0.14—0.32)
5.0	3DC - 8DC	6300	0.15 (0.10—0.20)	5700	0.15 (0.10—0.20)	5000	0.14 (0.09—0.18)
5.0	10DC - 30DC	5700	0.25 (0.15—0.35)	5700	0.25 (0.15—0.35)	5000	0.22 (0.14—0.32)
5.0	35DC,40DC	4700	0.20 (0.12—0.28)	4700	0.20 (0.12—0.28)	4100	0.18 (0.11—0.24)
6.0	2DC*	5500	0.27 (0.17—0.37)	5000	0.27 (0.17—0.37)	4700	0.24 (0.15—0.33)
6.0	3DC - 8DC	5800	0.20 (0.13—0.26)	5300	0.20 (0.13—0.26)	4700	0.18 (0.11—0.24)
6.0	10DC - 30DC	5300	0.27 (0.17—0.37)	4700	0.27 (0.17—0.37)	4200	0.24 (0.15—0.33)
6.0	35DC,40DC	4500	0.22 (0.14—0.30)	3900	0.22 (0.14—0.30)	3700	0.20 (0.12—0.26)
8.0	2DC*	4700	0.30 (0.20—0.40)	4300	0.30 (0.20—0.40)	3900	0.27 (0.18—0.36)
8.0	3DC - 8DC	4700	0.23 (0.18—0.28)	4300	0.23 (0.18—0.28)	3900	0.21 (0.16—0.25)
8.0	10DC - 30DC	4300	0.30 (0.20—0.40)	3900	0.30 (0.20—0.40)	3500	0.27 (0.18—0.36)
8.0	35DC,40DC	3300	0.24 (0.16—0.32)	3100	0.24 (0.16—0.32)	2700	0.22 (0.14—0.29)
10.0	2DC*	4100	0.32 (0.22—0.42)	3800	0.32 (0.22—0.42)	3100	0.29 (0.20—0.38)
10.0	3DC - 8DC	4100	0.27 (0.22—0.32)	3800	0.27 (0.22—0.32)	3500	0.23 (0.19—0.27)
10.0	10DC - 30DC	3500	0.32 (0.22—0.42)	3100	0.32 (0.22—0.42)	2800	0.29 (0.20—0.38)
10.0	35DC	2800	0.26 (0.18—0.34)	2500	0.26 (0.18—0.34)	2200	0.24 (0.16—0.30)
12.0	2DC*	3700	0.34 (0.24—0.44)	3400	0.34 (0.24—0.44)	3000	0.30 (0.22—0.40)
12.0	3DC - 8DC	3700	0.30 (0.26—0.34)	3400	0.30 (0.26—0.34)	3100	0.25 (0.22—0.29)
12.0	10DC - 25DC	3400	0.34 (0.24—0.44)	2900	0.34 (0.24—0.44)	2600	0.30 (0.22—0.40)
16.0	3DC - 8DC	3100	0.33 (0.27—0.38)	2700	0.33 (0.27—0.38)	2500	0.28 (0.23—0.33)
20.0	3DC,5DC	2500	0.35 (0.30—0.40)	2200	0.35 (0.30—0.40)	2000	0.30 (0.26—0.34)

* =导孔加工用 2DC

钻孔 [整体硬质合金钻头]

MVS
WSTAR钻头

推荐切削条件

工件材料		奥氏体类不锈钢 (≤200HB)		灰铸铁		球墨铸铁	
		SUS304、SUS316等		FC300等		FCD450等	
直径 DC (mm)	L/D	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)
1.0	2DC*,7DC	9500	0.03 (0.02—0.05)	15900	0.04 (0.02—0.05)	12700	0.04 (0.02—0.05)
1.0	12DC - 30DC	9500	0.02 (0.01—0.03)	12700	0.02 (0.01—0.03)	9500	0.02 (0.01—0.03)
1.5	2DC*,7DC	6300	0.05 (0.03—0.07)	10600	0.05 (0.03—0.08)	8400	0.05 (0.03—0.08)
1.5	12DC - 30DC	6300	0.05 (0.02—0.08)	8400	0.05 (0.02—0.08)	6300	0.05 (0.02—0.08)
2.0	2DC*,7DC	4700	0.06 (0.04—0.08)	7900	0.07 (0.04—0.10)	6300	0.07 (0.04—0.10)
2.0	12DC - 30DC	4700	0.06 (0.04—0.10)	7900	0.07 (0.04—0.10)	7900	0.07 (0.04—0.10)
2.5	2DC*,7DC	5000	0.08 (0.05—0.10)	7600	0.09 (0.05—0.13)	6300	0.09 (0.05—0.13)
2.5	12DC - 30DC	3800	0.08 (0.05—0.12)	6300	0.09 (0.06—0.13)	6300	0.08 (0.05—0.12)
3.0	2DC*	4200	0.08 (0.05—0.10)	9000	0.19 (0.11—0.26)	9000	0.17 (0.10—0.24)
3.0	3DC - 8DC	4200	0.08 (0.06—0.10)	9500	0.10 (0.06—0.13)	9000	0.10 (0.06—0.13)
3.0	10DC - 30DC	4200	0.08 (0.05—0.09)	8400	0.19 (0.11—0.26)	8400	0.17 (0.10—0.24)
3.0	35DC,40DC	2900	0.06 (0.04—0.07)	7400	0.15 (0.09—0.21)	7460	0.14 (0.08—0.19)
4.0	2DC*	3100	0.08 (0.06—0.10)	7900	0.22 (0.13—0.33)	7100	0.20 (0.12—0.30)
4.0	3DC - 8DC	3100	0.09 (0.06—0.11)	7900	0.12 (0.08—0.16)	7100	0.12 (0.08—0.16)
4.0	10DC - 30DC	3100	0.08 (0.06—0.10)	7100	0.22 (0.13—0.33)	7100	0.20 (0.12—0.30)
4.0	35DC,40DC	2300	0.07 (0.05—0.08)	5900	0.18 (0.10—0.26)	5900	0.16 (0.10—0.24)
5.0	2DC*	2500	0.10 (0.07—0.12)	6300	0.28 (0.16—0.39)	5700	0.25 (0.15—0.35)
5.0	3DC - 8DC	2500	0.11 (0.08—0.14)	6300	0.15 (0.10—0.20)	5700	0.15 (0.10—0.20)
5.0	10DC - 30DC	2500	0.10 (0.07—0.12)	5700	0.28 (0.07—0.39)	5700	0.25 (0.15—0.35)
5.0	35DC,40DC	1900	0.08 (0.06—0.10)	4700	0.22 (0.06—0.31)	4700	0.20 (0.12—0.28)
6.0	2DC*	2300	0.12 (0.08—0.16)	5500	0.30 (0.19—0.41)	5000	0.27 (0.17—0.37)
6.0	3DC - 8DC	2600	0.13 (0.09—0.18)	5800	0.20 (0.13—0.26)	5000	0.20 (0.13—0.26)
6.0	10DC - 30DC	2600	0.12 (0.08—0.14)	5300	0.30 (0.19—0.41)	4700	0.27 (0.17—0.37)
6.0	35DC,40DC	2100	0.10 (0.06—0.13)	4500	0.24 (0.15—0.33)	4200	0.22 (0.14—0.30)
8.0	2DC*	1900	0.14 (0.10—0.17)	4700	0.33 (0.22—0.44)	3900	0.30 (0.20—0.40)
8.0	3DC - 8DC	1900	0.15 (0.10—0.19)	4700	0.25 (0.18—0.31)	3900	0.23 (0.18—0.28)
8.0	10DC - 30DC	1900	0.14 (0.10—0.17)	4300	0.33 (0.22—0.44)	3900	0.30 (0.20—0.40)
8.0	35DC,40DC	1500	0.11 (0.08—0.14)	3300	0.26 (0.17—0.35)	3100	0.24 (0.16—0.32)
10.0	2DC*	1500	0.15 (0.12—0.18)	4100	0.35 (0.24—0.46)	3100	0.32 (0.22—0.42)
10.0	3DC - 8DC	1500	0.16 (0.12—0.20)	4100	0.29 (0.22—0.35)	3100	0.27 (0.22—0.32)
10.0	10DC - 30DC	1500	0.15 (0.12—0.18)	3500	0.35 (0.24—0.46)	3100	0.32 (0.22—0.42)
10.0	35DC	1200	0.12 (0.10—0.14)	2800	0.28 (0.19—0.37)	2500	0.26 (0.18—0.34)
12.0	2DC*	1400	0.17 (0.14—0.19)	3700	0.37 (0.26—0.48)	3000	0.34 (0.24—0.44)
12.0	3DC - 8DC	1500	0.18 (0.15—0.21)	3700	0.32 (0.26—0.37)	3000	0.30 (0.26—0.34)
12.0	10DC - 25DC	1500	0.17 (0.14—0.19)	3400	0.37 (0.26—0.48)	2900	0.34 (0.24—0.44)
16.0	3DC - 8DC	1100	0.19 (0.15—0.24)	3100	0.35 (0.28—0.42)	2500	0.33 (0.28—0.38)
20.0	3DC,5DC	900	0.21 (0.15—0.26)	2500	0.37 (0.30—0.44)	2300	0.35 (0.30—0.40)

* =导孔加工用 2DC

P

钻头

工件材料		铝合金 (Si<5%)		耐热合金	
		A6061、A7075等		Inconel718等	
直径 DC (mm)	L/D	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)
1.0	2DC*,7DC	19000	0.05 (0.03—0.08)	3100	0.02 (0.01—0.03)
1.0	12DC - 30DC	15900	0.05 (0.03—0.08)	3100	0.02 (0.01—0.03)
1.5	2DC*,7DC	16900	0.07 (0.05—0.12)	2100	0.03 (0.02—0.04)
1.5	12DC - 30DC	14800	0.07 (0.05—0.12)	2100	0.03 (0.02—0.04)
2.0	2DC*,7DC	14300	0.10 (0.06—0.15)	2300	0.04 (0.03—0.05)
2.0	12DC - 30DC	12700	0.10 (0.06—0.15)	2300	0.04 (0.03—0.05)
2.5	2DC*,7DC	12700	0.13 (0.08—0.20)	1900	0.05 (0.04—0.06)
2.5	12DC - 30DC	11400	0.13 (0.08—0.20)	1900	0.05 (0.04—0.06)
3.0	2DC*	11600	0.23 (0.10—0.35)	2100	0.07 (0.05—0.09)
3.0	3DC - 8DC	12700	0.23 (0.10—0.35)	2100	0.07 (0.05—0.09)
3.0	10DC - 30DC	10600	0.23 (0.10—0.35)	2100	0.07 (0.05—0.09)
3.0	35DC,40DC	7900	0.18 (0.08—0.28)	1400	0.06 (0.04—0.07)
4.0	2DC*	9500	0.24 (0.12—0.35)	1500	0.09 (0.06—0.11)
4.0	3DC - 8DC	9500	0.24 (0.12—0.35)	1500	0.09 (0.06—0.11)
4.0	10DC - 30DC	7900	0.24 (0.12—0.35)	1500	0.09 (0.06—0.11)
4.0	35DC,40DC	6300	0.19 (0.10—0.28)	1100	0.07 (0.05—0.09)
5.0	2DC*	7600	0.25 (0.15—0.35)	1200	0.11 (0.08—0.14)
5.0	3DC - 8DC	7600	0.25 (0.15—0.35)	1200	0.11 (0.08—0.14)
5.0	10DC - 30DC	7000	0.25 (0.15—0.35)	1200	0.11 (0.08—0.14)
5.0	35DC,40DC	5000	0.20 (0.12—0.28)	900	0.09 (0.06—0.11)
6.0	2DC*	7400	0.35 (0.20—0.50)	1300	0.13 (0.09—0.16)
6.0	3DC - 8DC	7900	0.35 (0.20—0.50)	1300	0.13 (0.09—0.16)
6.0	10DC - 30DC	6300	0.35 (0.20—0.50)	1000	0.13 (0.09—0.16)
6.0	35DC,40DC	5300	0.28 (0.16—0.40)	700	0.10 (0.07—0.13)
8.0	2DC*	5900	0.35 (0.20—0.50)	900	0.14 (0.11—0.16)
8.0	3DC - 8DC	5900	0.35 (0.20—0.50)	900	0.14 (0.11—0.17)
8.0	10DC - 30DC	5100	0.35 (0.20—0.50)	700	0.14 (0.11—0.16)
8.0	35DC,40DC	3900	0.28 (0.16—0.40)	500	0.11 (0.09—0.13)
10.0	2DC*	4700	0.50 (0.20—0.80)	700	0.15 (0.12—0.17)
10.0	3DC - 8DC	4700	0.50 (0.20—0.80)	700	0.15 (0.12—0.18)
10.0	10DC - 30DC	4100	0.50 (0.20—0.80)	600	0.15 (0.12—0.17)
10.0	35DC	3300	0.40 (0.16—0.64)	400	0.12 (0.10—0.14)
12.0	2DC*	4200	0.50 (0.20—0.80)	600	0.16 (0.13—0.18)
12.0	3DC - 8DC	4200	0.50 (0.20—0.80)	600	0.16 (0.13—0.19)
12.0	10DC - 25DC	3700	0.50 (0.20—0.80)	500	0.16 (0.13—0.18)
16.0	3DC - 8DC	3100	0.60 (0.20—1.00)	400	0.18 (0.14—0.21)
20.0	3DC,5DC	2700	0.60 (0.20—1.00)	400	0.19 (0.15—0.22)

* =导孔加工用 2DC

钻孔 [整体硬质合金钻头]

MVE

WSTAR钻头

- PVD涂层超硬材料DP1020在广泛的被切削材料中实现了长寿命
- 新波浪刃型, 抑制外周部磨损



P

钢

M

不锈钢

K

铸铁

N

有色金属

S

耐热合金

H

高硬度钢

外冷却



DC=3	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
$\begin{smallmatrix} 0 \\ -0.014 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.022 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.027 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.033 \end{smallmatrix}$
D CON=3	3<D CON≤6	6<D CON≤10	10<D CON≤18	18<D CON≤20
$\begin{smallmatrix} 0 \\ -0.006 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.008 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.009 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.011 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.013 \end{smallmatrix}$

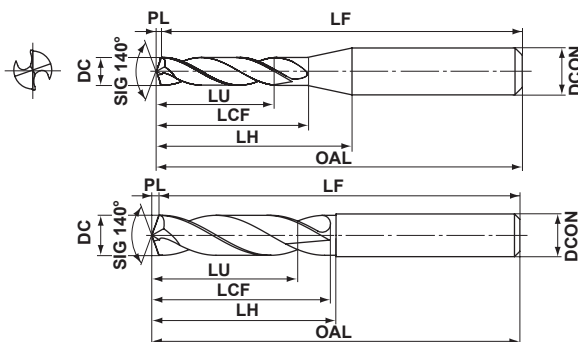


图1

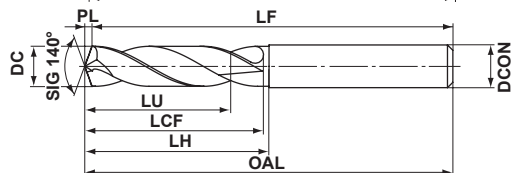


图2

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	D CON	
3.0	2	●	MVE0300X02S030	6.5	16.5	16.5	55.5	55	0.5	3	2
3.0	2	●	MVE0300X02S060	6.5	16.5	19.7	55.5	55	0.5	6	1
3.0	3	●	MVE0300X03S030	9.5	21.5	21.5	60.5	60	0.5	3	2
3.0	3	●	MVE0300X03S060	9.5	21.5	24.7	60.5	60	0.5	6	1
3.1	2	●	MVE0310X02S040	6.8	18.6	20.6	55.6	55	0.6	4	2
3.1	2	●	MVE0310X02S060	6.8	18.6	21.7	55.6	55	0.6	6	1
3.1	3	●	MVE0310X03S040	9.9	24.6	26.6	60.6	60	0.6	4	2
3.1	3	●	MVE0310X03S060	9.9	24.6	27.7	60.6	60	0.6	6	1
3.2	2	●	MVE0320X02S040	7.0	18.6	20.6	55.6	55	0.6	4	2
3.2	2	●	MVE0320X02S060	7.0	18.6	21.6	55.6	55	0.6	6	1
3.2	3	●	MVE0320X03S040	10.2	24.6	26.6	60.6	60	0.6	4	2
3.2	3	●	MVE0320X03S060	10.2	24.6	27.6	60.6	60	0.6	6	1
3.3	2	●	MVE0330X02S040	7.2	18.6	20.6	55.6	55	0.6	4	2
3.3	2	●	MVE0330X02S060	7.2	18.6	21.5	55.6	55	0.6	6	1
3.3	3	●	MVE0330X03S040	10.5	24.6	26.6	60.6	60	0.6	4	2
3.3	3	●	MVE0330X03S060	10.5	24.6	27.5	60.6	60	0.6	6	1
3.4	2	●	MVE0340X02S040	7.4	18.6	20.6	55.6	55	0.6	4	2
3.4	2	●	MVE0340X02S060	7.4	18.6	21.4	55.6	55	0.6	6	1
3.4	3	●	MVE0340X03S040	10.8	24.6	26.6	60.6	60	0.6	4	2
3.4	3	●	MVE0340X03S060	10.8	24.6	27.4	60.6	60	0.6	6	1
3.5	2	●	MVE0350X02S040	7.6	18.6	20.6	55.6	55	0.6	4	2
3.5	2	●	MVE0350X02S060	7.6	18.6	21.3	55.6	55	0.6	6	1
3.5	3	●	MVE0350X03S040	11.1	24.6	26.6	60.6	60	0.6	4	2
3.5	3	●	MVE0350X03S060	11.1	24.6	27.3	60.6	60	0.6	6	1
3.6	2	●	MVE0360X02S040	7.9	20.7	20.7	55.7	55	0.7	4	2
3.6	2	●	MVE0360X02S060	7.9	20.7	23.3	55.7	55	0.7	6	1
3.6	3	●	MVE0360X03S040	11.5	27.7	27.7	60.7	60	0.7	4	2
3.6	3	●	MVE0360X03S060	11.5	27.7	30.3	60.7	60	0.7	6	1
3.7	2	●	MVE0370X02S040	8.1	20.7	20.7	55.7	55	0.7	4	2
3.7	2	●	MVE0370X02S060	8.1	20.7	23.2	55.7	55	0.7	6	1
3.7	3	●	MVE0370X03S040	11.8	27.7	27.7	60.7	60	0.7	4	2
3.7	3	●	MVE0370X03S060	11.8	27.7	30.2	60.7	60	0.7	6	1

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	D CON	
3.8	2	●	MVE0380X02S040	8.3	20.7	20.7	55.7	55	0.7	4	2
3.8	2	●	MVE0380X02S060	8.3	20.7	23.1	55.7	55	0.7	6	1
3.8	3	●	MVE0380X03S040	12.1	27.7	27.7	60.7	60	0.7	4	2
3.8	3	●	MVE0380X03S060	12.1	27.7	30.1	60.7	60	0.7	6	1
3.9	2	●	MVE0390X02S040	8.5	20.7	20.7	55.7	55	0.7	4	2
3.9	2	●	MVE0390X02S060	8.5	20.7	23.0	55.7	55	0.7	6	1
3.9	3	●	MVE0390X03S040	12.4	27.7	27.7	60.7	60	0.7	4	2
3.9	3	●	MVE0390X03S060	12.4	27.7	30.0	60.7	60	0.7	6	1
4.0	2	●	MVE0400X02S040	8.7	20.7	20.7	55.7	55	0.7	4	2
4.0	2	●	MVE0400X02S060	8.7	20.7	22.8	55.7	55	0.7	6	1
4.0	3	●	MVE0400X03S040	12.7	27.7	27.7	60.7	60	0.7	4	2
4.0	3	●	MVE0400X03S060	12.7	27.7	29.8	60.7	60	0.7	6	1
4.1	2	●	MVE0410X02S050	8.9	22.7	24.7	62.7	62	0.7	5	2
4.1	2	●	MVE0410X02S060	8.9	22.7	24.7	62.7	62	0.7	6	1
4.1	3	●	MVE0410X03S050	13.0	29.7	31.7	68.7	68	0.7	5	2
4.1	3	●	MVE0410X03S060	13.0	29.7	31.7	68.7	68	0.7	6	1
4.2	2	●	MVE0420X02S050	9.2	22.8	24.8	62.8	62	0.8	5	2
4.2	2	●	MVE0420X02S060	9.2	22.8	24.7	62.8	62	0.8	6	1
4.2	3	●	MVE0420X03S050	13.4	29.8	31.8	68.8	68	0.8	5	2
4.2	3	●	MVE0420X03S060	13.4	29.8	31.7	68.8	68	0.8	6	1
4.3	2	●	MVE0430X02S050	9.4	22.8	24.8	62.8	62	0.8	5	2
4.3	2	●	MVE0430X02S060	9.4	22.8	24.6	62.8	62	0.8	6	1
4.3	3	●	MVE0430X03S050	13.7	29.8	31.8	68.8	68	0.8	5	2
4.3	3	●	MVE0430X03S060	13.7	29.8	31.6	68.8	68	0.8	6	1
4.4	2	●	MVE0440X02S050	9.6	22.8	24.8	62.8	62	0.8	5	2
4.4	2	●	MVE0440X02S060	9.6	22.8	24.5	62.8	62	0.8	6	1
4.4	3	●	MVE0440X03S050	14.0	29.8	31.8	68.8	68	0.8	5	2
4.4	3	●	MVE0440X03S060	14.0	29.8	31.5	68.8	68	0.8	6	1
4.5	2	●	MVE0450X02S050	9.8	22.8	24.8	62.8	62	0.8	5	2
4.5	2	●	MVE0450X02S060	9.8	22.8	24.4	62.8	62	0.8	6	1
4.5	3	●	MVE0450X03S050	14.3	29.8	31.8	68.8	68	0.8	5	2
4.5	3	●	MVE0450X03S060	14.3	29.8	31.4	68.8	68	0.8	6	1

●: 标准库存品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.6	2	●	MVE0460X02S050	10.0	24.8	24.8	62.8	62	0.8	5	2
4.6	2	●	MVE0460X02S060	10.0	24.8	27.8	62.8	62	0.8	6	2
4.6	3	●	MVE0460X03S050	14.6	32.8	32.8	68.8	68	0.8	5	2
4.6	3	●	MVE0460X03S060	14.6	32.8	35.8	68.8	68	0.8	6	2
4.7	2	●	MVE0470X02S050	10.3	24.9	24.9	62.9	62	0.9	5	2
4.7	2	●	MVE0470X02S060	10.3	24.9	27.9	62.9	62	0.9	6	2
4.7	3	●	MVE0470X03S050	15.0	32.9	32.9	68.9	68	0.9	5	2
4.7	3	●	MVE0470X03S060	15.0	32.9	35.9	68.9	68	0.9	6	2
4.8	2	●	MVE0480X02S050	10.5	24.9	24.9	62.9	62	0.9	5	2
4.8	2	●	MVE0480X02S060	10.5	24.9	27.9	62.9	62	0.9	6	2
4.8	3	●	MVE0480X03S050	15.3	32.9	32.9	68.9	68	0.9	5	2
4.8	3	●	MVE0480X03S060	15.3	32.9	35.9	68.9	68	0.9	6	2
4.9	2	●	MVE0490X02S050	10.7	24.9	24.9	62.9	62	0.9	5	2
4.9	2	●	MVE0490X02S060	10.7	24.9	27.9	62.9	62	0.9	6	2
4.9	3	●	MVE0490X03S050	15.6	32.9	32.9	68.9	68	0.9	5	2
4.9	3	●	MVE0490X03S060	15.6	32.9	35.9	68.9	68	0.9	6	2
5.0	2	●	MVE0500X02S050	10.9	24.9	24.9	62.9	62	0.9	5	2
5.0	2	●	MVE0500X02S060	10.9	24.9	27.9	62.9	62	0.9	6	2
5.0	3	●	MVE0500X03S050	15.9	32.9	32.9	68.9	68	0.9	5	2
5.0	3	●	MVE0500X03S060	15.9	32.9	35.9	68.9	68	0.9	6	2
5.1	2	●	MVE0510X02S060	11.1	26.9	28.9	66.9	66	0.9	6	2
5.1	3	●	MVE0510X03S060	16.2	34.9	36.9	74.9	74	0.9	6	2
5.2	2	●	MVE0520X02S060	11.3	26.9	28.9	66.9	66	0.9	6	2
5.2	3	●	MVE0520X03S060	16.5	34.9	36.9	74.9	74	0.9	6	2
5.3	2	●	MVE0530X02S060	11.6	27.0	29.0	67.0	66	1.0	6	2
5.3	3	●	MVE0530X03S060	16.9	35.0	37.0	75.0	74	1.0	6	2
5.4	2	●	MVE0540X02S060	11.8	27.0	29.0	67.0	66	1.0	6	2
5.4	3	●	MVE0540X03S060	17.2	35.0	37.0	75.0	74	1.0	6	2
5.5	2	●	MVE0550X02S060	12.0	27.0	29.0	67.0	66	1.0	6	2
5.5	3	●	MVE0550X03S060	17.5	35.0	37.0	75.0	74	1.0	6	2
5.6	2	●	MVE0560X02S060	12.2	29.0	29.0	67.0	66	1.0	6	2
5.6	3	●	MVE0560X03S060	17.8	37.0	37.0	75.0	74	1.0	6	2
5.7	2	●	MVE0570X02S060	12.4	29.0	29.0	67.0	66	1.0	6	2
5.7	3	●	MVE0570X03S060	18.1	37.0	37.0	75.0	74	1.0	6	2
5.8	2	●	MVE0580X02S060	12.7	29.1	29.1	67.1	66	1.1	6	2
5.8	3	●	MVE0580X03S060	18.5	37.1	37.1	75.1	74	1.1	6	2
5.9	2	●	MVE0590X02S060	12.9	29.1	29.1	67.1	66	1.1	6	2
5.9	3	●	MVE0590X03S060	18.8	37.1	37.1	75.1	74	1.1	6	2
6.0	2	●	MVE0600X02S060	13.1	29.1	29.1	67.1	66	1.1	6	2
6.0	3	●	MVE0600X03S060	19.1	37.1	37.1	75.1	74	1.1	6	2
6.1	2	●	MVE0610X02S070	13.3	32.1	35.1	75.1	74	1.1	7	2
6.1	2	●	MVE0610X02S080	13.3	32.1	35.1	75.1	74	1.1	8	2
6.1	3	●	MVE0610X03S070	19.4	42.1	45.1	84.1	83	1.1	7	2
6.1	3	●	MVE0610X03S080	19.4	42.1	45.1	84.1	83	1.1	8	2
6.2	2	●	MVE0620X02S070	13.5	32.1	35.1	75.1	74	1.1	7	2
6.2	2	●	MVE0620X02S080	13.5	32.1	35.1	75.1	74	1.1	8	2
6.2	3	●	MVE0620X03S070	19.7	42.1	45.1	84.1	83	1.1	7	2
6.2	3	●	MVE0620X03S080	19.7	42.1	45.1	84.1	83	1.1	8	2

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.3	2	●	MVE0630X02S070	13.7	32.1	35.1	75.1	74	1.1	7	2
6.3	2	●	MVE0630X02S080	13.7	32.1	35.1	75.1	74	1.1	8	2
6.3	3	●	MVE0630X03S070	20.0	42.1	45.1	84.1	83	1.1	7	2
6.3	3	●	MVE0630X03S080	20.0	42.1	45.1	84.1	83	1.1	8	2
6.4	2	●	MVE0640X02S070	14.0	32.2	35.2	75.2	74	1.2	7	2
6.4	2	●	MVE0640X02S080	14.0	32.2	35.2	75.2	74	1.2	8	2
6.4	3	●	MVE0640X03S070	20.4	42.2	45.2	84.2	83	1.2	7	2
6.4	3	●	MVE0640X03S080	20.4	42.2	45.2	84.2	83	1.2	8	2
6.5	2	●	MVE0650X02S070	14.2	32.2	35.2	75.2	74	1.2	7	2
6.5	2	●	MVE0650X02S080	14.2	32.2	35.2	75.2	74	1.2	8	2
6.5	3	●	MVE0650X03S070	20.7	42.2	45.2	84.2	83	1.2	7	2
6.5	3	●	MVE0650X03S080	20.7	42.2	45.2	84.2	83	1.2	8	2
6.6	2	●	MVE0660X02S070	14.4	35.2	35.2	75.2	74	1.2	7	2
6.6	2	●	MVE0660X02S080	14.4	35.2	37.2	75.2	74	1.2	8	2
6.6	3	●	MVE0660X03S070	21.0	44.2	44.2	84.2	83	1.2	7	2
6.6	3	●	MVE0660X03S080	21.0	44.2	46.2	84.2	83	1.2	8	2
6.7	2	●	MVE0670X02S070	14.6	35.2	35.2	75.2	74	1.2	7	2
6.7	2	●	MVE0670X02S080	14.6	35.2	37.2	75.2	74	1.2	8	2
6.7	3	●	MVE0670X03S070	21.3	44.2	44.2	84.2	83	1.2	7	2
6.7	3	●	MVE0670X03S080	21.3	44.2	46.2	84.2	83	1.2	8	2
6.8	2	●	MVE0680X02S070	14.8	35.2	35.2	75.2	74	1.2	7	2
6.8	2	●	MVE0680X02S080	14.8	35.2	37.2	75.2	74	1.2	8	2
6.8	3	●	MVE0680X03S070	21.6	44.2	44.2	84.2	83	1.2	7	2
6.8	3	●	MVE0680X03S080	21.6	44.2	46.2	84.2	83	1.2	8	2
6.9	2	●	MVE0690X02S070	15.1	35.3	35.3	75.3	74	1.3	7	2
6.9	2	●	MVE0690X02S080	15.1	35.3	37.3	75.3	74	1.3	8	2
6.9	3	●	MVE0690X03S070	22.0	44.3	44.3	84.3	83	1.3	7	2
6.9	3	●	MVE0690X03S080	22.0	44.3	46.3	84.3	83	1.3	8	2
7.0	2	●	MVE0700X02S070	15.3	35.3	35.3	75.3	74	1.3	7	2
7.0	2	●	MVE0700X02S080	15.3	35.3	37.3	75.3	74	1.3	8	2
7.0	3	●	MVE0700X03S070	22.3	44.3	44.3	84.3	83	1.3	7	2
7.0	3	●	MVE0700X03S080	22.3	44.3	46.3	84.3	83	1.3	8	2
7.1	2	●	MVE0710X02S080	15.5	35.3	38.3	80.3	79	1.3	8	2
7.1	3	●	MVE0710X03S080	22.6	46.3	49.3	91.3	90	1.3	8	2
7.2	2	●	MVE0720X02S080	15.7	35.3	38.3	80.3	79	1.3	8	2
7.2	3	●	MVE0720X03S080	22.9	46.3	49.3	91.3	90	1.3	8	2
7.3	2	●	MVE0730X02S080	15.9	35.3	38.3	80.3	79	1.3	8	2
7.3	3	●	MVE0730X03S080	23.2	46.3	49.3	91.3	90	1.3	8	2
7.4	2	●	MVE0740X02S080	16.1	35.3	38.3	80.3	79	1.3	8	2
7.4	3	●	MVE0740X03S080	23.5	46.3	49.3	91.3	90	1.3	8	2
7.5	2	●	MVE0750X02S080	16.4	35.4	38.4	80.4	79	1.4	8	2
7.5	3	●	MVE0750X03S080	23.9	46.4	49.4	91.4	90	1.4	8	2
7.6	2	●	MVE0760X02S080	16.6	38.4	38.4	80.4	79	1.4	8	2
7.6	3	●	MVE0760X03S080	24.2	49.4	49.4	91.4	90	1.4	8	2
7.7	2	●	MVE0770X02S080	16.8	38.4	38.4	80.4	79	1.4	8	2
7.7	3	●	MVE0770X03S080	24.5	49.4	49.4	91.4	90	1.4	8	2
7.8	2	●	MVE0780X02S080	17.0	38.4	38.4	80.4	79	1.4	8	2
7.8	3	●	MVE0780X03S080	24.8	49.4	49.4	91.4	90	1.4	8	2

P

钻头

切削条件 > P048
使用要点 > P049
技术资料 > R001

P043

DC	钻头孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LD	LCF	LH	OAL	LF	PL	DCON	
7.9	2	●	MVE0790X02S080	17.2	38.4	38.4	80.4	79	1.4	8	2
7.9	3	●	MVE0790X03S080	25.1	49.4	49.4	91.4	90	1.4	8	2
8.0	2	●	MVE0800X02S080	17.5	38.5	38.5	80.5	79	1.5	8	2
8.0	3	●	MVE0800X03S080	25.5	49.5	49.5	91.5	90	1.5	8	2
8.1	2	●	MVE0810X02S090	17.7	38.5	41.5	85.5	84	1.5	9	2
8.1	2	●	MVE0810X02S100	17.7	38.5	41.5	85.5	84	1.5	10	2
8.1	3	●	MVE0810X03S090	25.8	54.5	57.5	99.5	98	1.5	9	2
8.1	3	●	MVE0810X03S100	25.8	54.5	57.5	99.5	98	1.5	10	2
8.2	2	●	MVE0820X02S090	17.9	38.5	41.5	85.5	84	1.5	9	2
8.2	2	●	MVE0820X02S100	17.9	38.5	41.5	85.5	84	1.5	10	2
8.2	3	●	MVE0820X03S090	26.1	54.5	57.5	99.5	98	1.5	9	2
8.2	3	●	MVE0820X03S100	26.1	54.5	57.5	99.5	98	1.5	10	2
8.3	2	●	MVE0830X02S090	18.1	38.5	41.5	85.5	84	1.5	9	2
8.3	2	●	MVE0830X02S100	18.1	38.5	41.5	85.5	84	1.5	10	2
8.3	3	●	MVE0830X03S090	26.4	54.5	57.5	99.5	98	1.5	9	2
8.3	3	●	MVE0830X03S100	26.4	54.5	57.5	99.5	98	1.5	10	2
8.4	2	●	MVE0840X02S090	18.3	38.5	41.5	85.5	84	1.5	9	2
8.4	2	●	MVE0840X02S100	18.3	38.5	41.5	85.5	84	1.5	10	2
8.4	3	●	MVE0840X03S090	26.7	54.5	57.5	99.5	98	1.5	9	2
8.4	3	●	MVE0840X03S100	26.7	54.5	57.5	99.5	98	1.5	10	2
8.5	2	●	MVE0850X02S090	18.5	38.5	41.5	85.5	84	1.5	9	2
8.5	2	●	MVE0850X02S100	18.5	38.5	41.5	85.5	84	1.5	10	2
8.5	3	●	MVE0850X03S090	27.0	54.5	57.5	99.5	98	1.5	9	2
8.5	3	●	MVE0850X03S100	27.0	54.5	57.5	99.5	98	1.5	10	2
8.6	2	●	MVE0860X02S090	18.8	41.6	41.6	85.6	84	1.6	9	2
8.6	2	●	MVE0860X02S100	18.8	41.6	43.6	85.6	84	1.6	10	2
8.6	3	●	MVE0860X03S090	27.4	56.6	56.6	99.6	98	1.6	9	2
8.6	3	●	MVE0860X03S100	27.4	56.6	58.6	99.6	98	1.6	10	2
8.7	2	●	MVE0870X02S090	19.0	41.6	41.6	85.6	84	1.6	9	2
8.7	2	●	MVE0870X02S100	19.0	41.6	43.6	85.6	84	1.6	10	2
8.7	3	●	MVE0870X03S090	27.7	56.6	56.6	99.6	98	1.6	9	2
8.7	3	●	MVE0870X03S100	27.7	56.6	58.6	99.6	98	1.6	10	2
8.8	2	●	MVE0880X02S090	19.2	41.6	41.6	85.6	84	1.6	9	2
8.8	2	●	MVE0880X02S100	19.2	41.6	43.6	85.6	84	1.6	10	2
8.8	3	●	MVE0880X03S090	28.0	56.6	56.6	99.6	98	1.6	9	2
8.8	3	●	MVE0880X03S100	28.0	56.6	58.6	99.6	98	1.6	10	2
8.9	2	●	MVE0890X02S090	19.4	41.6	41.6	85.6	84	1.6	9	2
8.9	2	●	MVE0890X02S100	19.4	41.6	43.6	85.6	84	1.6	10	2
8.9	3	●	MVE0890X03S090	28.3	56.6	56.6	99.6	98	1.6	9	2
8.9	3	●	MVE0890X03S100	28.3	56.6	58.6	99.6	98	1.6	10	2
9.0	2	●	MVE0900X02S090	19.6	41.6	41.6	85.6	84	1.6	9	2
9.0	2	●	MVE0900X02S100	19.6	41.6	43.6	85.6	84	1.6	10	2
9.0	3	●	MVE0900X03S090	28.6	56.6	56.6	99.6	98	1.6	9	2
9.0	3	●	MVE0900X03S100	28.6	56.6	58.6	99.6	98	1.6	10	2
9.1	2	●	MVE0910X02S100	19.9	41.7	44.7	90.7	89	1.7	10	2
9.1	3	●	MVE0910X03S100	29.0	59.7	62.7	106.7	105	1.7	10	2
9.2	2	●	MVE0920X02S100	20.1	41.7	44.7	90.7	89	1.7	10	2
9.2	3	●	MVE0920X03S100	29.3	59.7	62.7	106.7	105	1.7	10	2

DC	钻头孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LD	LCF	LH	OAL	LF	PL	DCON	
9.3	2	●	MVE0930X02S100	20.3	41.7	44.7	90.7	89	1.7	10	2
9.3	3	●	MVE0930X03S100	29.6	59.7	62.7	106.7	105	1.7	10	2
9.4	2	●	MVE0940X02S100	20.5	41.7	44.7	90.7	89	1.7	10	2
9.4	3	●	MVE0940X03S100	29.9	59.7	62.7	106.7	105	1.7	10	2
9.5	2	●	MVE0950X02S100	20.7	41.7	44.7	90.7	89	1.7	10	2
9.5	3	●	MVE0950X03S100	30.2	59.7	62.7	106.7	105	1.7	10	2
9.6	2	●	MVE0960X02S100	20.9	44.7	44.7	90.7	89	1.7	10	2
9.6	3	●	MVE0960X03S100	30.5	61.7	61.7	106.7	105	1.7	10	2
9.7	2	●	MVE0970X02S100	21.2	44.8	44.8	90.8	89	1.8	10	2
9.7	3	●	MVE0970X03S100	30.9	61.8	61.8	106.8	105	1.8	10	2
9.8	2	●	MVE0980X02S100	21.4	44.8	44.8	90.8	89	1.8	10	2
9.8	3	●	MVE0980X03S100	31.2	61.8	61.8	106.8	105	1.8	10	2
9.9	2	●	MVE0990X02S100	21.6	44.8	44.8	90.8	89	1.8	10	2
9.9	3	●	MVE0990X03S100	31.5	61.8	61.8	106.8	105	1.8	10	2
10.0	2	●	MVE1000X02S100	21.8	44.8	44.8	90.8	89	1.8	10	2
10.0	3	●	MVE1000X03S100	31.8	61.8	61.8	106.8	105	1.8	10	2
10.1	2	●	MVE1010X02S110	22.0	44.8	47.8	96.8	95	1.8	11	2
10.1	2	●	MVE1010X02S120	22.0	44.8	47.8	96.8	95	1.8	12	2
10.1	3	●	MVE1010X03S110	32.1	67.8	70.8	115.8	114	1.8	11	2
10.1	3	●	MVE1010X03S120	32.1	67.8	70.8	115.8	114	1.8	12	2
10.2	2	●	MVE1020X02S110	22.3	44.9	47.9	96.9	95	1.9	11	2
10.2	2	●	MVE1020X02S120	22.3	44.9	47.9	96.9	95	1.9	12	2
10.2	3	●	MVE1020X03S110	32.5	67.9	70.9	115.9	114	1.9	11	2
10.2	3	●	MVE1020X03S120	32.5	67.9	70.9	115.9	114	1.9	12	2
10.3	2	●	MVE1030X02S110	22.5	44.9	47.9	96.9	95	1.9	11	2
10.3	2	●	MVE1030X02S120	22.5	44.9	47.9	96.9	95	1.9	12	2
10.3	3	●	MVE1030X03S110	32.8	67.9	70.9	115.9	114	1.9	11	2
10.3	3	●	MVE1030X03S120	32.8	67.9	70.9	115.9	114	1.9	12	2
10.4	2	●	MVE1040X02S110	22.7	44.9	47.9	96.9	95	1.9	11	2
10.4	2	●	MVE1040X02S120	22.7	44.9	47.9	96.9	95	1.9	12	2
10.4	3	●	MVE1040X03S110	33.1	67.9	70.9	115.9	114	1.9	11	2
10.4	3	●	MVE1040X03S120	33.1	67.9	70.9	115.9	114	1.9	12	2
10.5	2	●	MVE1050X02S110	22.9	44.9	47.9	96.9	95	1.9	11	2
10.5	2	●	MVE1050X02S120	22.9	44.9	47.9	96.9	95	1.9	12	2
10.5	3	●	MVE1050X03S110	33.4	67.9	70.9	115.9	114	1.9	11	2
10.5	3	●	MVE1050X03S120	33.4	67.9	70.9	115.9	114	1.9	12	2
10.6	2	●	MVE1060X02S110	23.1	48.9	48.9	96.9	95	1.9	11	2
10.6	2	●	MVE1060X02S120	23.1	48.9	49.9	96.9	95	1.9	12	2
10.6	3	●	MVE1060X03S110	33.7	69.9	69.9	115.9	114	1.9	11	2
10.6	3	●	MVE1060X03S120	33.7	69.9	70.9	115.9	114	1.9	12	2
10.7	2	●	MVE1070X02S110	23.3	48.9	48.9	96.9	95	1.9	11	2
10.7	2	●	MVE1070X02S120	23.3	48.9	49.9	96.9	95	1.9	12	2
10.7	3	●	MVE1070X03S110	34.0	69.9	69.9	115.9	114	1.9	11	2
10.7	3	●	MVE1070X03S120	34.0	69.9	70.9	115.9	114	1.9	12	2
10.8	2	●	MVE1080X02S110	23.6	49.0	49.0	97.0	95	2.0	11	2
10.8	2	●	MVE1080X02S120	23.6	49.0	50.0	97.0	95	2.0	12	2
10.8	3	●	MVE1080X03S110	34.4	70.0	70.0	116.0	114	2.0	11	2
10.8	3	●	MVE1080X03S120	34.4	70.0	71.0	116.0	114	2.0	12	2

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
10.9	2	●	MVE1090X02S110	23.8	49.0	49.0	97.0	95	2.0	11	2
10.9	2	●	MVE1090X02S120	23.8	49.0	50.0	97.0	95	2.0	12	2
10.9	3	●	MVE1090X03S110	34.7	70.0	70.0	116.0	114	2.0	11	2
10.9	3	●	MVE1090X03S120	34.7	70.0	71.0	116.0	114	2.0	12	2
11.0	2	●	MVE1100X02S110	24.0	49.0	49.0	97.0	95	2.0	11	2
11.0	2	●	MVE1100X02S120	24.0	49.0	50.0	97.0	95	2.0	12	2
11.0	3	●	MVE1100X03S110	35.0	70.0	70.0	116.0	114	2.0	11	2
11.0	3	●	MVE1100X03S120	35.0	70.0	71.0	116.0	114	2.0	12	2
11.1	2	●	MVE1110X02S120	24.2	49.0	52.0	97.0	95	2.0	12	2
11.1	3	●	MVE1110X03S120	35.3	73.0	76.0	123.0	121	2.0	12	2
11.2	2	●	MVE1120X02S120	24.4	49.0	52.0	97.0	95	2.0	12	2
11.2	3	●	MVE1120X03S120	35.6	73.0	76.0	123.0	121	2.0	12	2
11.3	2	●	MVE1130X02S120	24.7	49.1	52.1	97.1	95	2.1	12	2
11.3	3	●	MVE1130X03S120	36.0	73.1	76.1	123.1	121	2.1	12	2
11.4	2	●	MVE1140X02S120	24.9	49.1	52.1	97.1	95	2.1	12	2
11.4	3	●	MVE1140X03S120	36.3	73.1	76.1	123.1	121	2.1	12	2
11.5	2	●	MVE1150X02S120	25.1	49.1	52.1	97.1	95	2.1	12	2
11.5	3	●	MVE1150X03S120	36.6	73.1	76.1	123.1	121	2.1	12	2
11.6	2	●	MVE1160X02S120	25.3	49.1	49.1	97.1	95	2.1	12	2
11.6	3	●	MVE1160X03S120	36.9	75.1	75.1	123.1	121	2.1	12	2
11.7	2	●	MVE1170X02S120	25.5	49.1	49.1	97.1	95	2.1	12	2
11.7	3	●	MVE1170X03S120	37.2	75.1	75.1	123.1	121	2.1	12	2
11.8	2	●	MVE1180X02S120	25.7	49.1	49.1	97.1	95	2.1	12	2
11.8	3	●	MVE1180X03S120	37.5	75.1	75.1	123.1	121	2.1	12	2
11.9	2	●	MVE1190X02S120	26.0	49.2	49.2	97.2	95	2.2	12	2
11.9	3	●	MVE1190X03S120	37.9	75.2	75.2	123.2	121	2.2	12	2
12.0	2	●	MVE1200X02S120	26.2	49.2	49.2	97.2	95	2.2	12	2
12.0	3	●	MVE1200X03S120	38.2	75.2	75.2	123.2	121	2.2	12	2
12.1	2	●	MVE1210X02S130	26.4	53.2	56.2	104.2	102	2.2	13	2
12.1	2	□	MVE1210X02S140	26.4	53.2	56.2	104.2	102	2.2	14	2
12.1	3	●	MVE1210X03S130	38.5	78.2	81.2	139.2	137	2.2	13	2
12.1	3	□	MVE1210X03S140	38.5	78.2	81.2	139.2	137	2.2	14	2
12.2	2	●	MVE1220X02S130	26.6	53.2	56.2	104.2	102	2.2	13	2
12.2	2	□	MVE1220X02S140	26.6	53.2	56.2	104.2	102	2.2	14	2
12.2	3	●	MVE1220X03S130	38.8	78.2	81.2	139.2	137	2.2	13	2
12.2	3	□	MVE1220X03S140	38.8	78.2	81.2	139.2	137	2.2	14	2
12.3	2	●	MVE1230X02S130	26.8	53.2	56.2	104.2	102	2.2	13	2
12.3	2	□	MVE1230X02S140	26.8	53.2	56.2	104.2	102	2.2	14	2
12.3	3	●	MVE1230X03S130	39.1	78.2	81.2	139.2	137	2.2	13	2
12.3	3	□	MVE1230X03S140	39.1	78.2	81.2	139.2	137	2.2	14	2
12.4	2	●	MVE1240X02S130	27.1	53.3	56.3	104.3	102	2.3	13	2
12.4	2	□	MVE1240X02S140	27.1	53.3	56.3	104.3	102	2.3	14	2
12.4	3	●	MVE1240X03S130	39.5	78.3	81.3	139.3	137	2.3	13	2
12.4	3	□	MVE1240X03S140	39.5	78.3	81.3	139.3	137	2.3	14	2
12.5	2	●	MVE1250X02S130	27.3	53.3	56.3	104.3	102	2.3	13	2
12.5	2	□	MVE1250X02S140	27.3	53.3	56.3	104.3	102	2.3	14	2
12.5	3	●	MVE1250X03S130	39.8	78.3	81.3	139.3	137	2.3	13	2
12.5	3	□	MVE1250X03S140	39.8	78.3	81.3	139.3	137	2.3	14	2

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
12.6	2	●	MVE1260X02S130	27.5	53.3	53.3	104.3	102	2.3	13	2
12.6	2	□	MVE1260X02S140	27.5	53.3	53.3	104.3	102	2.3	14	2
12.6	3	●	MVE1260X03S130	40.1	80.3	80.3	139.3	137	2.3	13	2
12.6	3	□	MVE1260X03S140	40.1	80.3	80.3	139.3	137	2.3	14	2
12.7	2	●	MVE1270X02S130	27.7	53.3	53.3	104.3	102	2.3	13	2
12.7	2	□	MVE1270X02S140	27.7	53.3	53.3	104.3	102	2.3	14	2
12.7	3	●	MVE1270X03S130	40.4	80.3	80.3	139.3	137	2.3	13	2
12.7	3	□	MVE1270X03S140	40.4	80.3	80.3	139.3	137	2.3	14	2
12.8	2	●	MVE1280X02S130	27.9	53.3	53.3	104.3	102	2.3	13	2
12.8	2	□	MVE1280X02S140	27.9	53.3	53.3	104.3	102	2.3	14	2
12.8	3	●	MVE1280X03S130	40.7	80.3	80.3	139.3	137	2.3	13	2
12.8	3	□	MVE1280X03S140	40.7	80.3	80.3	139.3	137	2.3	14	2
12.9	2	●	MVE1290X02S130	28.1	53.3	53.3	104.3	102	2.3	13	2
12.9	2	□	MVE1290X02S140	28.1	53.3	53.3	104.3	102	2.3	14	2
12.9	3	●	MVE1290X03S130	41.0	80.3	80.3	139.3	137	2.3	13	2
12.9	3	□	MVE1290X03S140	41.0	80.3	80.3	139.3	137	2.3	14	2
13.0	2	●	MVE1300X02S130	28.4	53.4	53.4	104.4	102	2.4	13	2
13.0	2	□	MVE1300X02S140	28.4	53.4	53.4	104.4	102	2.4	14	2
13.0	3	●	MVE1300X03S130	41.4	80.4	80.4	139.4	137	2.4	13	2
13.0	3	□	MVE1300X03S140	41.4	80.4	80.4	139.4	137	2.4	14	2
13.1	2	●	MVE1310X02S140	28.6	56.4	59.4	109.4	107	2.4	14	2
13.1	3	●	MVE1310X03S140	41.7	86.4	89.4	149.4	147	2.4	14	2
13.2	2	●	MVE1320X02S140	28.8	56.4	59.4	109.4	107	2.4	14	2
13.2	3	●	MVE1320X03S140	42.0	86.4	89.4	149.4	147	2.4	14	2
13.3	2	●	MVE1330X02S140	29.0	56.4	59.4	109.4	107	2.4	14	2
13.3	3	●	MVE1330X03S140	42.3	86.4	89.4	149.4	147	2.4	14	2
13.4	2	●	MVE1340X02S140	29.2	56.4	59.4	109.4	107	2.4	14	2
13.4	3	●	MVE1340X03S140	42.6	86.4	89.4	149.4	147	2.4	14	2
13.5	2	●	MVE1350X02S140	29.5	56.5	59.5	109.5	107	2.5	14	2
13.5	3	●	MVE1350X03S140	43.0	86.5	89.5	149.5	147	2.5	14	2
13.6	2	●	MVE1360X02S140	29.7	56.5	56.5	109.5	107	2.5	14	2
13.6	3	●	MVE1360X03S140	43.3	88.5	88.5	149.5	147	2.5	14	2
13.7	2	●	MVE1370X02S140	29.9	56.5	56.5	109.5	107	2.5	14	2
13.7	3	●	MVE1370X03S140	43.6	88.5	88.5	149.5	147	2.5	14	2
13.8	2	●	MVE1380X02S140	30.1	56.5	56.5	109.5	107	2.5	14	2
13.8	3	●	MVE1380X03S140	43.9	88.5	88.5	149.5	147	2.5	14	2
13.9	2	●	MVE1390X02S140	30.3	56.5	56.5	109.5	107	2.5	14	2
13.9	3	●	MVE1390X03S140	44.2	88.5	88.5	149.5	147	2.5	14	2
14.0	2	●	MVE1400X02S140	30.5	56.5	56.5	109.5	107	2.5	14	2
14.0	3	●	MVE1400X03S140	44.5	88.5	88.5	149.5	147	2.5	14	2
14.1	2	●	MVE1410X02S150	30.8	58.6	61.6	113.6	111	2.6	15	2
14.1	2	□	MVE1410X02S160	30.8	58.6	61.6	113.6	111	2.6	16	2
14.1	3	●	MVE1410X03S150	44.9	91.6	94.6	155.6	153	2.6	15	2
14.1	3	□	MVE1410X03S160	44.9	91.6	94.6	155.6	153	2.6	16	2
14.2	2	●	MVE1420X02S150	31.0	58.6	61.6	113.6	111	2.6	15	2
14.2	2	□	MVE1420X02S160	31.0	58.6	61.6	113.6	111	2.6	16	2
14.2	3	●	MVE1420X03S150	45.2	91.6	94.6	155.6	153	2.6	15	2
14.2	3	□	MVE1420X03S160	45.2	91.6	94.6	155.6	153	2.6	16	2

P

钻头

钻孔 [整体硬质合金钻头]

MVE WSTAR钻头

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LD	LCF	LH	OAL	LF	PL	DCON	
14.3	2	□	MVE1430X02S150	31.2	58.6	61.6	113.6	111	2.6	15	2
14.3	2	□	MVE1430X02S160	31.2	58.6	61.6	113.6	111	2.6	16	2
14.3	3	●	MVE1430X03S150	45.5	91.6	94.6	155.6	153	2.6	15	2
14.3	3	□	MVE1430X03S160	45.5	91.6	94.6	155.6	153	2.6	16	2
14.4	2	□	MVE1440X02S150	31.4	58.6	61.6	113.6	111	2.6	15	2
14.4	2	□	MVE1440X02S160	31.4	58.6	61.6	113.6	111	2.6	16	2
14.4	3	●	MVE1440X03S150	45.8	91.6	94.6	155.6	153	2.6	15	2
14.4	3	□	MVE1440X03S160	45.8	91.6	94.6	155.6	153	2.6	16	2
14.5	2	●	MVE1450X02S150	31.6	58.6	61.6	113.6	111	2.6	15	2
14.5	2	□	MVE1450X02S160	31.6	58.6	61.6	113.6	111	2.6	16	2
14.5	3	●	MVE1450X03S150	46.1	91.6	94.6	155.6	153	2.6	15	2
14.5	3	□	MVE1450X03S160	46.1	91.6	94.6	155.6	153	2.6	16	2
14.6	2	□	MVE1460X02S150	31.9	58.7	58.7	113.7	111	2.7	15	2
14.6	2	□	MVE1460X02S160	31.9	58.7	58.7	113.7	111	2.7	16	2
14.6	3	●	MVE1460X03S150	46.5	93.7	93.7	155.7	153	2.7	15	2
14.6	3	□	MVE1460X03S160	46.5	93.7	93.7	155.7	153	2.7	16	2
14.7	2	□	MVE1470X02S150	32.1	58.7	58.7	113.7	111	2.7	15	2
14.7	2	□	MVE1470X02S160	32.1	58.7	58.7	113.7	111	2.7	16	2
14.7	3	●	MVE1470X03S150	46.8	93.7	93.7	155.7	153	2.7	15	2
14.7	3	□	MVE1470X03S160	46.8	93.7	93.7	155.7	153	2.7	16	2
14.8	2	□	MVE1480X02S150	32.3	58.7	58.7	113.7	111	2.7	15	2
14.8	2	□	MVE1480X02S160	32.3	58.7	58.7	113.7	111	2.7	16	2
14.8	3	●	MVE1480X03S150	47.1	93.7	93.7	155.7	153	2.7	15	2
14.8	3	□	MVE1480X03S160	47.1	93.7	93.7	155.7	153	2.7	16	2
14.9	2	□	MVE1490X02S150	32.5	58.7	58.7	113.7	111	2.7	15	2
14.9	2	□	MVE1490X02S160	32.5	58.7	58.7	113.7	111	2.7	16	2
14.9	3	●	MVE1490X03S150	47.4	93.7	93.7	155.7	153	2.7	15	2
14.9	3	□	MVE1490X03S160	47.4	93.7	93.7	155.7	153	2.7	16	2
15.0	2	●	MVE1500X02S150	32.7	58.7	58.7	113.7	111	2.7	15	2
15.0	2	□	MVE1500X02S160	32.7	58.7	58.7	113.7	111	2.7	16	2
15.0	3	●	MVE1500X03S150	47.7	93.7	93.7	155.7	153	2.7	15	2
15.0	3	□	MVE1500X03S160	47.7	93.7	93.7	155.7	153	2.7	16	2
15.1	2	□	MVE1510X02S160	32.9	60.7	63.7	117.7	115	2.7	16	2
15.1	3	●	MVE1510X03S160	48.0	96.7	99.7	162.7	160	2.7	16	2
15.2	2	●	MVE1520X02S160	33.2	60.8	63.8	117.8	115	2.8	16	2
15.2	3	●	MVE1520X03S160	48.4	96.8	99.8	162.8	160	2.8	16	2
15.3	2	□	MVE1530X02S160	33.4	60.8	63.8	117.8	115	2.8	16	2
15.3	3	●	MVE1530X03S160	48.7	96.8	99.8	162.8	160	2.8	16	2
15.4	2	□	MVE1540X02S160	33.6	60.8	63.8	117.8	115	2.8	16	2
15.4	3	●	MVE1540X03S160	49.0	96.8	99.8	162.8	160	2.8	16	2
15.5	2	●	MVE1550X02S160	33.8	60.8	63.8	117.8	115	2.8	16	2
15.5	3	●	MVE1550X03S160	49.3	96.8	99.8	162.8	160	2.8	16	2
15.6	2	□	MVE1560X02S160	34.0	60.8	60.8	117.8	115	2.8	16	2
15.6	3	●	MVE1560X03S160	49.6	98.8	98.8	162.8	160	2.8	16	2
15.7	2	□	MVE1570X02S160	34.3	60.9	60.9	117.9	115	2.9	16	2
15.7	3	●	MVE1570X03S160	50.0	98.9	98.9	162.9	160	2.9	16	2
15.8	2	□	MVE1580X02S160	34.5	60.9	60.9	117.9	115	2.9	16	2
15.8	3	●	MVE1580X03S160	50.3	98.9	98.9	162.9	160	2.9	16	2

DC	钻削孔深 (mm)	DP1020 (L/D)	型号	尺寸 (mm)							图
				LD	LCF	LH	OAL	LF	PL	DCON	
15.9	2	□	MVE1590X02S160	34.7	60.9	60.9	117.9	115	2.9	16	2
15.9	3	●	MVE1590X03S160	50.6	98.9	98.9	162.9	160	2.9	16	2
16.0	2	●	MVE1600X02S160	34.9	60.9	60.9	117.9	115	2.9	16	2
16.0	3	●	MVE1600X03S160	50.9	98.9	98.9	162.9	160	2.9	16	2
16.1	2	□	MVE1610X02S170	35.1	62.9	62.9	121.9	119	2.9	17	2
16.1	2	□	MVE1610X02S180	35.1	62.9	62.9	121.9	119	2.9	18	2
16.1	3	□	MVE1610X03S170	51.2	104.9	104.9	169.9	167	2.9	17	2
16.1	3	□	MVE1610X03S180	51.2	104.9	104.9	169.9	167	2.9	18	2
16.2	2	●	MVE1620X02S170	35.3	62.9	62.9	121.9	119	2.9	17	2
16.2	2	□	MVE1620X02S180	35.3	62.9	62.9	121.9	119	2.9	18	2
16.2	3	□	MVE1620X03S170	51.5	104.9	104.9	169.9	167	2.9	17	2
16.2	3	□	MVE1620X03S180	51.5	104.9	104.9	169.9	167	2.9	18	2
16.3	2	●	MVE1630X02S170	35.6	63.0	63.0	122.0	119	3.0	17	2
16.3	2	□	MVE1630X02S180	35.6	63.0	63.0	122.0	119	3.0	18	2
16.3	3	□	MVE1630X03S170	51.9	105.0	105.0	170.0	167	3.0	17	2
16.3	3	□	MVE1630X03S180	51.9	105.0	105.0	170.0	167	3.0	18	2
16.4	2	□	MVE1640X02S170	35.8	63.0	63.0	122.0	119	3.0	17	2
16.4	2	□	MVE1640X02S180	35.8	63.0	63.0	122.0	119	3.0	18	2
16.4	3	□	MVE1640X03S170	52.2	105.0	105.0	170.0	167	3.0	17	2
16.4	3	□	MVE1640X03S180	52.2	105.0	105.0	170.0	167	3.0	18	2
16.5	2	●	MVE1650X02S170	36.0	63.0	63.0	122.0	119	3.0	17	2
16.5	2	□	MVE1650X02S180	36.0	63.0	63.0	122.0	119	3.0	18	2
16.5	3	●	MVE1650X03S170	52.5	105.0	105.0	170.0	167	3.0	17	2
16.5	3	□	MVE1650X03S180	52.5	105.0	105.0	170.0	167	3.0	18	2
16.6	2	□	MVE1660X02S170	36.2	63.0	63.0	122.0	119	3.0	17	2
16.6	2	□	MVE1660X02S180	36.2	63.0	63.0	122.0	119	3.0	18	2
16.6	3	□	MVE1660X03S170	52.8	105.0	105.0	170.0	167	3.0	17	2
16.6	3	□	MVE1660X03S180	52.8	105.0	105.0	170.0	167	3.0	18	2
16.7	2	□	MVE1670X02S170	36.4	63.0	63.0	122.0	119	3.0	17	2
16.7	2	□	MVE1670X02S180	36.4	63.0	63.0	122.0	119	3.0	18	2
16.7	3	□	MVE1670X03S170	53.1	105.0	105.0	170.0	167	3.0	17	2
16.7	3	□	MVE1670X03S180	53.1	105.0	105.0	170.0	167	3.0	18	2
16.8	2	□	MVE1680X02S170	36.7	63.1	63.1	122.1	119	3.1	17	2
16.8	2	□	MVE1680X02S180	36.7	63.1	63.1	122.1	119	3.1	18	2
16.8	3	□	MVE1680X03S170	53.5	105.1	105.1	170.1	167	3.1	17	2
16.8	3	□	MVE1680X03S180	53.5	105.1	105.1	170.1	167	3.1	18	2
16.9	2	□	MVE1690X02S170	36.9	63.1	63.1	122.1	119	3.1	17	2
16.9	2	□	MVE1690X02S180	36.9	63.1	63.1	122.1	119	3.1	18	2
16.9	3	□	MVE1690X03S170	53.8	105.1	105.1	170.1	167	3.1	17	2
16.9	3	□	MVE1690X03S180	53.8	105.1	105.1	170.1	167	3.1	18	2
17.0	2	●	MVE1700X02S170	37.1	63.1	63.1	122.1	119	3.1	17	2
17.0	2	□	MVE1700X02S180	37.1	63.1	63.1	122.1	119	3.1	18	2
17.0	3	●	MVE1700X03S170	54.1	105.1	105.1	170.1	167	3.1	17	2
17.0	3	□	MVE1700X03S180	54.1	105.1	105.1	170.1	167	3.1	18	2
17.1	2	□	MVE1710X02S180	37.3	65.1	65.1	126.1	123	3.1	18	2
17.1	3	□	MVE1710X03S180	54.4	105.1	105.1	170.1	167	3.1	18	2
17.2	2	□	MVE1720X02S180	37.5	65.1	65.1	126.1	123	3.1	18	2
17.2	3	□	MVE1720X03S180	54.7	105.1	105.1	170.1	167	3.1	18	2

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
17.3	2	□	MVE1730X02S180	37.7	65.1	65.1	126.1	123	3.1	18	2
17.3	3	□	MVE1730X03S180	55.0	105.1	105.1	170.1	167	3.1	18	2
17.4	2	□	MVE1740X02S180	38.0	65.2	65.2	126.2	123	3.2	18	2
17.4	3	□	MVE1740X03S180	55.4	105.2	105.2	170.2	167	3.2	18	2
17.5	2	●	MVE1750X02S180	38.2	65.2	65.2	126.2	123	3.2	18	2
17.5	3	●	MVE1750X03S180	55.7	105.2	105.2	170.2	167	3.2	18	2
17.6	2	□	MVE1760X02S180	38.4	65.2	65.2	126.2	123	3.2	18	2
17.6	3	□	MVE1760X03S180	56.0	105.2	105.2	170.2	167	3.2	18	2
17.7	2	□	MVE1770X02S180	38.6	65.2	65.2	126.2	123	3.2	18	2
17.7	3	□	MVE1770X03S180	56.3	105.2	105.2	170.2	167	3.2	18	2
17.8	2	●	MVE1780X02S180	38.8	65.2	65.2	126.2	123	3.2	18	2
17.8	3	□	MVE1780X03S180	56.6	105.2	105.2	170.2	167	3.2	18	2
17.9	2	□	MVE1790X02S180	39.1	65.3	65.3	126.3	123	3.3	18	2
17.9	3	□	MVE1790X03S180	57.0	105.3	105.3	170.3	167	3.3	18	2
18.0	2	●	MVE1800X02S180	39.3	65.3	65.3	126.3	123	3.3	18	2
18.0	3	●	MVE1800X03S180	57.3	105.3	105.3	170.3	167	3.3	18	2
18.1	2	□	MVE1810X02S190	39.5	67.3	67.3	130.3	127	3.3	19	2
18.1	2	□	MVE1810X02S200	39.5	67.3	67.3	130.3	127	3.3	20	2
18.1	3	□	MVE1810X03S190	57.6	117.3	117.3	182.3	179	3.3	19	2
18.1	3	□	MVE1810X03S200	57.6	117.3	117.3	182.3	179	3.3	20	2
18.2	2	□	MVE1820X02S190	39.7	67.3	67.3	130.3	127	3.3	19	2
18.2	2	□	MVE1820X02S200	39.7	67.3	67.3	130.3	127	3.3	20	2
18.2	3	□	MVE1820X03S190	57.9	117.3	117.3	182.3	179	3.3	19	2
18.2	3	□	MVE1820X03S200	57.9	117.3	117.3	182.3	179	3.3	20	2
18.3	2	□	MVE1830X02S190	39.9	67.3	67.3	130.3	127	3.3	19	2
18.3	2	□	MVE1830X02S200	39.9	67.3	67.3	130.3	127	3.3	20	2
18.3	3	□	MVE1830X03S190	58.2	117.3	117.3	182.3	179	3.3	19	2
18.3	3	□	MVE1830X03S200	58.2	117.3	117.3	182.3	179	3.3	20	2
18.4	2	□	MVE1840X02S190	40.1	67.3	67.3	130.3	127	3.3	19	2
18.4	2	□	MVE1840X02S200	40.1	67.3	67.3	130.3	127	3.3	20	2
18.4	3	□	MVE1840X03S190	58.5	117.3	117.3	182.3	179	3.3	19	2
18.4	3	□	MVE1840X03S200	58.5	117.3	117.3	182.3	179	3.3	20	2
18.5	2	●	MVE1850X02S190	40.4	67.4	67.4	130.4	127	3.4	19	2
18.5	2	□	MVE1850X02S200	40.4	67.4	67.4	130.4	127	3.4	20	2
18.5	3	●	MVE1850X03S190	58.9	117.4	117.4	182.4	179	3.4	19	2
18.5	3	□	MVE1850X03S200	58.9	117.4	117.4	182.4	179	3.4	20	2
18.6	2	□	MVE1860X02S190	40.6	67.4	67.4	130.4	127	3.4	19	2
18.6	2	□	MVE1860X02S200	40.6	67.4	67.4	130.4	127	3.4	20	2
18.6	3	□	MVE1860X03S190	59.2	117.4	117.4	182.4	179	3.4	19	2
18.6	3	□	MVE1860X03S200	59.2	117.4	117.4	182.4	179	3.4	20	2
18.7	2	□	MVE1870X02S190	40.8	67.4	67.4	130.4	127	3.4	19	2
18.7	2	□	MVE1870X02S200	40.8	67.4	67.4	130.4	127	3.4	20	2
18.7	3	□	MVE1870X03S190	59.5	117.4	117.4	182.4	179	3.4	19	2
18.7	3	□	MVE1870X03S200	59.5	117.4	117.4	182.4	179	3.4	20	2
18.8	2	□	MVE1880X02S190	41.0	67.4	67.4	130.4	127	3.4	19	2
18.8	2	□	MVE1880X02S200	41.0	67.4	67.4	130.4	127	3.4	20	2
18.8	3	□	MVE1880X03S190	59.8	117.4	117.4	182.4	179	3.4	19	2
18.8	3	□	MVE1880X03S200	59.8	117.4	117.4	182.4	179	3.4	20	2

DC (mm)	钻削孔深 (L/D)	DP1020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
18.9	2	□	MVE1890X02S190	41.2	67.4	67.4	130.4	127	3.4	19	2
18.9	2	□	MVE1890X02S200	41.2	67.4	67.4	130.4	127	3.4	20	2
18.9	3	□	MVE1890X03S190	60.1	117.4	117.4	182.4	179	3.4	19	2
18.9	3	□	MVE1890X03S200	60.1	117.4	117.4	182.4	179	3.4	20	2
19.0	2	●	MVE1900X02S190	41.5	67.5	67.5	130.5	127	3.5	19	2
19.0	2	□	MVE1900X02S200	41.5	67.5	67.5	130.5	127	3.5	20	2
19.0	3	●	MVE1900X03S190	60.5	117.5	117.5	182.5	179	3.5	19	2
19.0	3	□	MVE1900X03S200	60.5	117.5	117.5	182.5	179	3.5	20	2
19.1	2	□	MVE1910X02S200	41.7	69.5	69.5	134.5	131	3.5	20	2
19.1	3	□	MVE1910X03S200	60.8	117.5	117.5	182.5	179	3.5	20	2
19.2	2	□	MVE1920X02S200	41.9	69.5	69.5	134.5	131	3.5	20	2
19.2	3	□	MVE1920X03S200	61.1	117.5	117.5	182.5	179	3.5	20	2
19.3	2	□	MVE1930X02S200	42.1	69.5	69.5	134.5	131	3.5	20	2
19.3	3	□	MVE1930X03S200	61.4	117.5	117.5	182.5	179	3.5	20	2
19.4	2	□	MVE1940X02S200	42.3	69.5	69.5	134.5	131	3.5	20	2
19.4	3	□	MVE1940X03S200	61.7	117.5	117.5	182.5	179	3.5	20	2
19.5	2	●	MVE1950X02S200	42.5	69.5	69.5	134.5	131	3.5	20	2
19.5	3	●	MVE1950X03S200	62.0	117.5	117.5	182.5	179	3.5	20	2
19.6	2	□	MVE1960X02S200	42.8	69.6	69.6	134.6	131	3.6	20	2
19.6	3	□	MVE1960X03S200	62.4	117.6	117.6	182.6	179	3.6	20	2
19.7	2	□	MVE1970X02S200	43.0	69.6	69.6	134.6	131	3.6	20	2
19.7	3	□	MVE1970X03S200	62.7	117.6	117.6	182.6	179	3.6	20	2
19.8	2	□	MVE1980X02S200	43.2	69.6	69.6	134.6	131	3.6	20	2
19.8	3	□	MVE1980X03S200	63.0	117.6	117.6	182.6	179	3.6	20	2
19.9	2	□	MVE1990X02S200	43.4	69.6	69.6	134.6	131	3.6	20	2
19.9	3	□	MVE1990X03S200	63.3	117.6	117.6	182.6	179	3.6	20	2
20.0	2	●	MVE2000X02S200	43.6	69.6	69.6	134.6	131	3.6	20	2
20.0	3	●	MVE2000X03S200	63.6	117.6	117.6	182.6	179	3.6	20	2

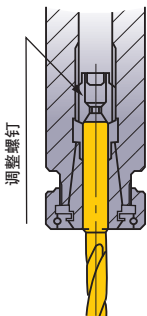
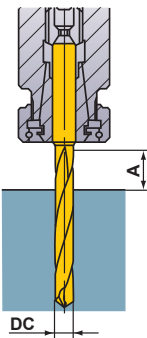
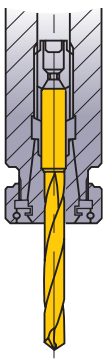
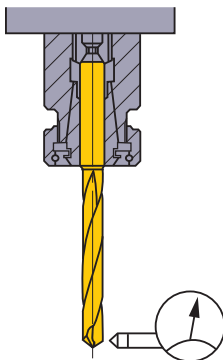
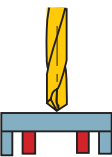
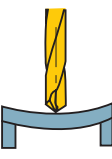
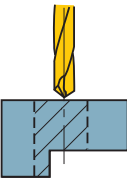
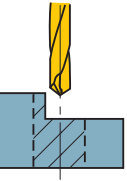
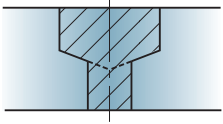
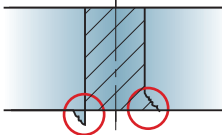
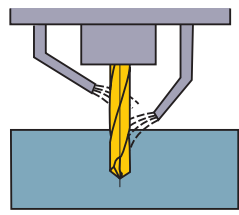
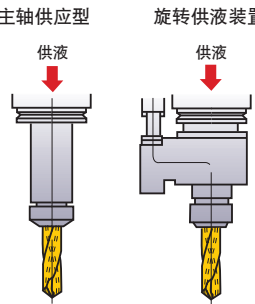
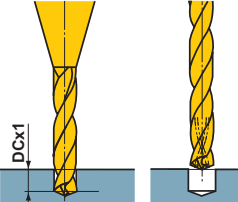
推荐切削条件

工件材料	软钢 (≤180HB)			碳钢·合金钢 (180—280HB)			碳钢·合金钢 (280—350HB)		
	SS400、S10C等			S45C、SCM440等			SNCM439等		
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	
3.2	6400	0.1	(0.06—0.13)	5900	0.1	(0.06—0.13)	5400	0.09	(0.06—0.12)
4.0	5500	0.12	(0.08—0.16)	5100	0.12	(0.08—0.16)	4700	0.11	(0.07—0.14)
5.0	4400	0.15	(0.10—0.20)	4100	0.15	(0.10—0.20)	3800	0.14	(0.09—0.18)
6.3	4000	0.2	(0.13—0.26)	3700	0.2	(0.13—0.26)	3500	0.18	(0.11—0.24)
8.0	3300	0.23	(0.18—0.28)	3100	0.23	(0.18—0.28)	2900	0.21	(0.16—0.25)
10.0	2800	0.27	(0.22—0.32)	2700	0.27	(0.22—0.32)	2500	0.23	(0.19—0.27)
12.0	2500	0.31	(0.28—0.34)	2300	0.31	(0.28—0.34)	2200	0.26	(0.23—0.29)
16.0	1900	0.33	(0.28—0.38)	1700	0.33	(0.28—0.38)	1600	0.29	(0.24—0.33)
20.0	1500	0.35	(0.30—0.40)	1400	0.35	(0.30—0.40)	1300	0.3	(0.26—0.34)

工件材料	奥氏体类不锈钢 (≤200HB)			灰铸铁 (≤350MPa)			球墨铸铁 (≤450MPa)		
	SUS304、SUS316等			FC300等			FCD450等		
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	
3.2	1900	0.07	(0.05—0.08)	6900	0.1	(0.06—0.13)	6400	0.1	(0.06—0.13)
4.0	1500	0.08	(0.06—0.10)	5500	0.12	(0.08—0.16)	5100	0.12	(0.08—0.16)
5.0	1200	0.1	(0.07—0.13)	4400	0.15	(0.10—0.20)	4100	0.15	(0.10—0.20)
6.3	1200	0.13	(0.09—0.17)	3700	0.2	(0.13—0.26)	3500	0.2	(0.13—0.26)
8.0	900	0.14	(0.10—0.18)	2900	0.25	(0.18—0.31)	2700	0.23	(0.18—0.28)
10.0	700	0.16	(0.12—0.19)	2300	0.29	(0.22—0.35)	2200	0.27	(0.22—0.32)
12.0	600	0.18	(0.15—0.20)	2100	0.33	(0.28—0.37)	1900	0.31	(0.28—0.34)
16.0	400	0.19	(0.15—0.23)	1500	0.35	(0.28—0.42)	1400	0.33	(0.28—0.38)
20.0	300	0.2	(0.15—0.24)	1300	0.37	(0.30—0.44)	1200	0.35	(0.30—0.40)

工件材料	铝合金 (Si<5%)			耐热合金			高硬度钢 (40—55HRC)		
	A6061、A7075等			Inconel718等			SKD61、SKT4等		
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	
3.2	7900	0.1	(0.06—0.13)	1900	0.07	(0.05—0.09)	1900	0.07	(0.05—0.09)
4.0	6300	0.12	(0.08—0.16)	1500	0.09	(0.06—0.11)	1500	0.09	(0.06—0.11)
5.0	5000	0.15	(0.10—0.20)	1200	0.11	(0.08—0.14)	1200	0.11	(0.08—0.14)
6.3	4500	0.2	(0.13—0.26)	1200	0.14	(0.09—0.19)	1200	0.14	(0.09—0.19)
8.0	3500	0.23	(0.18—0.28)	900	0.14	(0.11—0.17)	900	0.14	(0.11—0.17)
10.0	2800	0.27	(0.22—0.32)	700	0.16	(0.12—0.19)	700	0.16	(0.12—0.19)
12.0	2600	0.31	(0.28—0.34)	600	0.16	(0.13—0.18)	600	0.16	(0.13—0.18)
16.0	1900	0.33	(0.28—0.38)	400	0.18	(0.14—0.21)	400	0.18	(0.14—0.21)
20.0	1700	0.35	(0.30—0.40)	400	0.19	(0.15—0.22)	400	0.19	(0.15—0.22)

高级使用方法

钻头装夹  使用推力轴承型的弹簧夹头可确保夹紧。	确定装夹钻头长度的方法  图中的A尺寸要确保$DC \times 1.5$以上。 ($DC < 3$的情况下,$DC \times 2.0$以上)	安装注意事项  NG 不能把钻头的沟槽部位夹住。	安装时的振摆  振摆应在0.03mm以内。
薄板钻削  OK 增加支承  NG 发生挠曲	断续钻削  可以加工 OK ①断续面处应降低进给量。  前加工必要 ①先由立铣刀镗孔。	阶梯孔钻削  ①可分两个工序钻削。 ②先钻削大直径部分。 ※本公司也制造带铤孔或倒角刃的复合钻头。	将钻通时出现毛刺、塌陷  ①将钻通时应降低进给量。 ②钻头肩部处理成倒角。 ③改变钻头顶角。
适宜的供液方法(MVE)  如图所示：钻头顶部和中部是期望的供液部位。	供液方法(MVS)  主轴供应型 旋转供液装置 供液 供液 $\phi 3\text{mm}$以下：1.5MPa~7MPa 超过了$\phi 3\text{mm}$：0.5MPa~7MPa 推荐3MPa以上。	切削液的管理 <使用MVS钻头时> 1) 供液系统必须安装切削液过滤网。细小的切屑颗粒等会堵塞冷却孔。特别是使用小直径钻头，应尽量选用细目滤网。 2) 切削液用久后，液中的细小杂物会附在冷却孔内，导致供液不畅。应及早更换。	小直径钻头的使用方法  ①采用槽长最短的MVS钻头，加工深度$DC \times 1$ (DC为钻头直径) 左右的底孔。 ②加工完底孔，使用带有冷却孔德钻头进行加工。请根据加工内容来决定是进行步进式加工还是微进给加工。

使用注意事项(使用 $DC < 3\text{mm}$ 的情况下)

为防止冷却孔堵塞，供液装置上应使用精密过滤网(网眼尺寸 $\leq 3\mu\text{m}$)。

用长钻头加工深孔时，需要事先加工导孔。

(离心力的作用可能使钻头发生折损。)

钻孔 [整体硬质合金钻头]

硬质合金

MQS

WSTAR钻头

●可实现钢、铸铁的高效、高精度加工



P	M	K	N	S	H
钢		铸铁			

内冷却

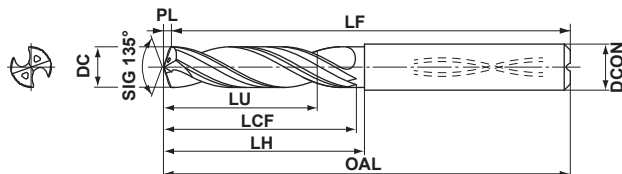


图1

DC=3	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
-0.012	-0.012	-0.015	-0.018	-0.021
DCON=3	3<DCON≤6	6<DCON≤10	10<DCON≤18	18<DCON≤20
-0.006	-0.008	-0.009	-0.011	-0.013

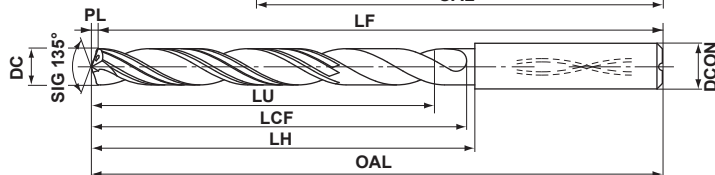


图2

注1) MQS型产品均可用于热缩式刀柄。

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.0	3	▲	MQS0300X3DB	9.6	21.6	23.6	70.6	70	0.6	3	1
3.0	5	▲	MQS0300X5DB	15.6	28.6	31.6	78.6	78	0.6	3	1
3.0	8	▲	MQS0300X8DB	24.6	35.6	35.6	81.6	81	0.6	3	1
3.1	3	▲	MQS0310X3DB	9.9	21.6	23.6	70.6	70	0.6	4	1
3.1	5	▲	MQS0310X5DB	16.1	28.6	31.6	78.6	78	0.6	4	1
3.2	3	▲	MQS0320X3DB	10.3	21.7	23.7	70.7	70	0.7	4	1
3.2	5	▲	MQS0320X5DB	16.7	28.7	31.7	78.7	78	0.7	4	1
3.3	3	▲	MQS0330X3DB	10.6	21.7	23.7	70.7	70	0.7	4	1
3.3	5	▲	MQS0330X5DB	17.2	28.7	31.7	78.7	78	0.7	4	1
3.4	3	▲	MQS0340X3DB	10.9	21.7	23.7	70.7	70	0.7	4	1
3.4	5	▲	MQS0340X5DB	17.7	28.7	31.7	78.7	78	0.7	4	1
3.5	3	▲	MQS0350X3DB	11.2	21.7	23.7	70.7	70	0.7	4	1
3.5	5	▲	MQS0350X5DB	18.2	28.7	31.7	78.7	78	0.7	4	1
3.5	8	▲	MQS0350X8DB	28.7	41.7	41.7	87.7	87	0.7	4	1
3.6	3	▲	MQS0360X3DB	11.5	22.7	23.7	70.7	70	0.7	4	1
3.6	5	▲	MQS0360X5DB	18.7	30.7	31.7	78.7	78	0.7	4	1
3.7	3	▲	MQS0370X3DB	11.9	22.8	23.8	70.8	70	0.8	4	1
3.7	5	▲	MQS0370X5DB	19.3	30.8	31.8	78.8	78	0.8	4	1
3.8	3	▲	MQS0380X3DB	12.2	22.8	23.8	70.8	70	0.8	4	1
3.8	5	▲	MQS0380X5DB	19.8	30.8	31.8	78.8	78	0.8	4	1
3.9	3	▲	MQS0390X3DB	12.5	22.8	23.8	70.8	70	0.8	4	1
3.9	5	▲	MQS0390X5DB	20.3	30.8	31.8	78.8	78	0.8	4	1
4.0	3	▲	MQS0400X3DB	12.8	22.8	23.8	70.8	70	0.8	4	1
4.0	5	▲	MQS0400X5DB	20.8	30.8	31.8	78.8	78	0.8	4	1
4.0	8	▲	MQS0400X8DB	32.8	46.8	46.8	92.8	92	0.8	4	1
4.1	3	▲	MQS0410X3DB	13.1	24.8	26.8	73.8	73	0.8	5	1
4.1	5	▲	MQS0410X5DB	21.3	33.8	35.8	82.8	82	0.8	5	1
4.2	3	▲	MQS0420X3DB	13.5	24.9	26.9	73.9	73	0.9	5	1
4.2	5	▲	MQS0420X5DB	21.9	33.9	35.9	82.9	82	0.9	5	1
4.3	3	▲	MQS0430X3DB	13.8	24.9	26.9	73.9	73	0.9	5	1
4.3	5	▲	MQS0430X5DB	22.4	33.9	35.9	82.9	82	0.9	5	1
4.4	3	▲	MQS0440X3DB	14.1	24.9	26.9	73.9	73	0.9	5	1
4.4	5	▲	MQS0440X5DB	22.9	33.9	35.9	82.9	82	0.9	5	1
4.5	3	▲	MQS0450X3DB	14.4	24.9	26.9	73.9	73	0.9	5	1

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.5	5	▲	MQS0450X5DB	23.4	33.9	35.9	82.9	82	0.9	5	1
4.5	8	▲	MQS0450X8DB	36.9	52.9	52.9	100.9	100	0.9	5	1
4.6	3	▲	MQS0460X3DB	14.8	26.0	29.0	76.0	75	1.0	5	1
4.6	5	▲	MQS0460X5DB	24.0	36.0	39.0	86.0	85	1.0	5	1
4.7	3	▲	MQS0470X3DB	15.1	26.0	29.0	76.0	75	1.0	5	1
4.7	5	▲	MQS0470X5DB	24.5	36.0	39.0	86.0	85	1.0	5	1
4.8	3	▲	MQS0480X3DB	15.4	26.0	29.0	76.0	75	1.0	5	1
4.8	5	▲	MQS0480X5DB	25.0	36.0	39.0	86.0	85	1.0	5	1
4.9	3	▲	MQS0490X3DB	15.7	26.0	29.0	76.0	75	1.0	5	1
4.9	5	▲	MQS0490X5DB	25.5	36.0	39.0	86.0	85	1.0	5	1
5.0	3	▲	MQS0500X3DB	16.0	26.0	29.0	76.0	75	1.0	5	1
5.0	5	▲	MQS0500X5DB	26.0	36.0	39.0	86.0	85	1.0	5	1
5.0	8	▲	MQS0500X8DB	41.0	58.0	58.0	106.0	105	1.0	5	1
5.1	3	▲	MQS0510X3DB	16.4	29.1	31.1	82.1	81	1.1	6	1
5.1	5	▲	MQS0510X5DB	26.6	40.1	43.1	90.1	89	1.1	6	1
5.2	3	▲	MQS0520X3DB	16.7	29.1	31.1	82.1	81	1.1	6	1
5.2	5	▲	MQS0520X5DB	27.1	40.1	43.1	90.1	89	1.1	6	1
5.3	3	▲	MQS0530X3DB	17.0	29.1	31.1	82.1	81	1.1	6	1
5.3	5	▲	MQS0530X5DB	27.6	40.1	43.1	90.1	89	1.1	6	1
5.4	3	▲	MQS0540X3DB	17.3	29.1	31.1	82.1	81	1.1	6	1
5.4	5	▲	MQS0540X5DB	28.1	40.1	43.1	90.1	89	1.1	6	1
5.5	3	▲	MQS0550X3DB	17.6	29.1	31.1	82.1	81	1.1	6	1
5.5	5	▲	MQS0550X5DB	28.6	40.1	43.1	90.1	89	1.1	6	1
5.5	8	▲	MQS0550X8DB	45.1	62.1	67.1	119.1	118	1.1	6	1
5.6	3	▲	MQS0560X3DB	18.0	31.2	31.2	82.2	81	1.2	6	1
5.6	5	▲	MQS0560X5DB	29.2	43.2	43.2	90.2	89	1.2	6	1
5.7	3	▲	MQS0570X3DB	18.3	31.2	31.2	82.2	81	1.2	6	1
5.7	5	▲	MQS0570X5DB	29.7	43.2	43.2	90.2	89	1.2	6	1
5.8	3	▲	MQS0580X3DB	18.6	31.2	31.2	82.2	81	1.2	6	1
5.8	5	▲	MQS0580X5DB	30.2	43.2	43.2	90.2	89	1.2	6	1
5.9	3	▲	MQS0590X3DB	18.9	31.2	31.2	82.2	81	1.2	6	1
5.9	5	▲	MQS0590X5DB	30.7	43.2	43.2	90.2	89	1.2	6	1
6.0	3	▲	MQS0600X3DB	19.2	31.2	31.2	82.2	81	1.2	6	1
6.0	5	▲	MQS0600X5DB	31.2	43.2	43.2	90.2	89	1.2	6	1

注1) ø6mm以下钻头的冷却孔形状为圆形

注2) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

▲: 预定在2020年3月底结束订货的产品

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.0	8	▲	MQS0600X8DB	49.2	67.2	67.2	119.2	118	1.2	6	1
6.1	3	▲	MQS0610X3DB	19.6	34.3	36.3	87.3	86	1.3	7	1
6.1	5	▲	MQS0610X5DB	31.8	47.3	49.3	96.3	95	1.3	7	1
6.2	3	▲	MQS0620X3DB	19.9	34.3	36.3	87.3	86	1.3	7	1
6.2	5	▲	MQS0620X5DB	32.3	47.3	49.3	96.3	95	1.3	7	1
6.3	3	▲	MQS0630X3DB	20.2	34.3	36.3	87.3	86	1.3	7	1
6.3	5	▲	MQS0630X5DB	32.8	47.3	49.3	96.3	95	1.3	7	1
6.4	3	▲	MQS0640X3DB	20.5	34.3	36.3	87.3	86	1.3	7	1
6.4	5	▲	MQS0640X5DB	33.3	47.3	49.3	96.3	95	1.3	7	1
6.5	3	▲	MQS0650X3DB	20.8	34.3	36.3	87.3	86	1.3	7	1
6.5	5	▲	MQS0650X5DB	33.8	47.3	49.3	96.3	95	1.3	7	1
6.5	8	▲	MQS0650X8DB	53.3	73.3	78.3	131.3	130	1.3	7	1
6.6	3	▲	MQS0660X3DB	21.2	36.4	38.4	91.4	90	1.4	7	1
6.6	5	▲	MQS0660X5DB	34.4	50.4	52.4	99.4	98	1.4	7	1
6.7	3	▲	MQS0670X3DB	21.5	36.4	38.4	91.4	90	1.4	7	1
6.7	5	▲	MQS0670X5DB	34.9	50.4	52.4	99.4	98	1.4	7	1
6.8	3	▲	MQS0680X3DB	21.8	36.4	38.4	91.4	90	1.4	7	1
6.8	5	▲	MQS0680X5DB	35.4	50.4	52.4	99.4	98	1.4	7	1
6.9	3	▲	MQS0690X3DB	22.1	36.4	38.4	91.4	90	1.4	7	1
6.9	5	▲	MQS0690X5DB	35.9	50.4	52.4	99.4	98	1.4	7	1
7.0	3	▲	MQS0700X3DB	22.4	36.4	38.4	91.4	90	1.4	7	1
7.0	5	▲	MQS0700X5DB	36.4	50.4	52.4	99.4	98	1.4	7	1
7.0	8	▲	MQS0700X8DB	57.4	78.4	78.4	131.4	130	1.4	7	1
7.1	3	▲	MQS0710X3DB	22.8	39.5	40.5	91.5	90	1.5	8	1
7.1	5	▲	MQS0710X5DB	37.0	54.5	57.5	104.5	103	1.5	8	1
7.2	3	▲	MQS0720X3DB	23.1	39.5	40.5	91.5	90	1.5	8	1
7.2	5	▲	MQS0720X5DB	37.5	54.5	57.5	104.5	103	1.5	8	1
7.3	3	▲	MQS0730X3DB	23.4	39.5	40.5	91.5	90	1.5	8	1
7.3	5	▲	MQS0730X5DB	38.0	54.5	57.5	104.5	103	1.5	8	1
7.4	3	▲	MQS0740X3DB	23.7	39.5	40.5	91.5	90	1.5	8	1
7.4	5	▲	MQS0740X5DB	38.5	54.5	57.5	104.5	103	1.5	8	1
7.5	3	▲	MQS0750X3DB	24.1	39.6	40.6	91.6	90	1.6	8	1
7.5	5	▲	MQS0750X5DB	39.1	54.6	57.6	104.6	103	1.6	8	1
7.5	8	▲	MQS0750X8DB	61.6	84.6	89.6	143.6	142	1.6	8	2
7.6	3	▲	MQS0760X3DB	24.4	41.6	41.6	91.6	90	1.6	8	1
7.6	5	▲	MQS0760X5DB	39.6	57.6	57.6	104.6	103	1.6	8	1
7.7	3	▲	MQS0770X3DB	24.7	41.6	41.6	91.6	90	1.6	8	1
7.7	5	▲	MQS0770X5DB	40.1	57.6	57.6	104.6	103	1.6	8	1
7.8	3	▲	MQS0780X3DB	25.0	41.6	41.6	91.6	90	1.6	8	1
7.8	5	▲	MQS0780X5DB	40.6	57.6	57.6	104.6	103	1.6	8	1
7.9	3	▲	MQS0790X3DB	25.3	41.6	41.6	91.6	90	1.6	8	1
7.9	5	▲	MQS0790X5DB	41.1	57.6	57.6	104.6	103	1.6	8	1
8.0	3	▲	MQS0800X3DB	25.7	41.7	41.7	91.7	90	1.7	8	1
8.0	5	▲	MQS0800X5DB	41.7	57.7	57.7	104.7	103	1.7	8	1
8.0	8	▲	MQS0800X8DB	65.7	89.7	89.7	143.7	142	1.7	8	2
8.1	3	▲	MQS0810X3DB	26.0	44.7	46.7	97.7	96	1.7	9	1
8.1	5	▲	MQS0810X5DB	42.2	61.7	63.7	114.7	113	1.7	9	1
8.2	3	▲	MQS0820X3DB	26.3	44.7	46.7	97.7	96	1.7	9	1
8.2	5	▲	MQS0820X5DB	42.7	61.7	63.7	114.7	113	1.7	9	1
8.3	3	▲	MQS0830X3DB	26.6	44.7	46.7	97.7	96	1.7	9	1

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
8.3	5	▲	MQS0830X5DB	43.2	61.7	63.7	114.7	113	1.7	9	1
8.4	3	▲	MQS0840X3DB	26.9	44.7	46.7	97.7	96	1.7	9	1
8.4	5	▲	MQS0840X5DB	43.7	61.7	63.7	114.7	113	1.7	9	1
8.5	3	▲	MQS0850X3DB	27.3	44.8	46.8	97.8	96	1.8	9	1
8.5	5	▲	MQS0850X5DB	44.3	61.8	63.8	114.8	113	1.8	9	1
8.5	8	▲	MQS0850X8DB	69.8	95.8	100.8	155.8	154	1.8	9	2
8.6	3	▲	MQS0860X3DB	27.6	46.8	48.8	102.8	101	1.8	9	1
8.6	5	▲	MQS0860X5DB	44.8	64.8	66.8	117.8	116	1.8	9	1
8.7	3	▲	MQS0870X3DB	27.9	46.8	48.8	102.8	101	1.8	9	1
8.7	5	▲	MQS0870X5DB	45.3	64.8	66.8	117.8	116	1.8	9	1
8.8	3	▲	MQS0880X3DB	28.2	46.8	48.8	102.8	101	1.8	9	1
8.8	5	▲	MQS0880X5DB	45.8	64.8	66.8	117.8	116	1.8	9	1
8.9	3	▲	MQS0890X3DB	28.5	46.8	48.8	102.8	101	1.8	9	1
8.9	5	▲	MQS0890X5DB	46.3	64.8	66.8	117.8	116	1.8	9	1
9.0	3	▲	MQS0900X3DB	28.9	46.9	48.9	102.9	101	1.9	9	1
9.0	5	▲	MQS0900X5DB	46.9	64.9	66.9	117.9	116	1.9	9	1
9.0	8	▲	MQS0900X8DB	73.9	100.9	100.9	155.9	154	1.9	9	2
9.1	3	▲	MQS0910X3DB	29.2	49.9	51.9	102.9	101	1.9	10	1
9.1	5	▲	MQS0910X5DB	47.4	68.9	71.9	122.9	121	1.9	10	1
9.2	3	▲	MQS0920X3DB	29.5	49.9	51.9	102.9	101	1.9	10	1
9.2	5	▲	MQS0920X5DB	47.9	68.9	71.9	122.9	121	1.9	10	1
9.3	3	▲	MQS0930X3DB	29.8	49.9	51.9	102.9	101	1.9	10	1
9.3	5	▲	MQS0930X5DB	48.4	68.9	71.9	122.9	121	1.9	10	1
9.4	3	▲	MQS0940X3DB	30.1	49.9	51.9	102.9	101	1.9	10	1
9.4	5	▲	MQS0940X5DB	48.9	68.9	71.9	122.9	121	1.9	10	1
9.5	3	▲	MQS0950X3DB	30.5	50.0	52.0	103.0	101	2.0	10	1
9.5	5	▲	MQS0950X5DB	49.5	69.0	72.0	123.0	121	2.0	10	1
9.5	8	▲	MQS0950X8DB	78.0	107.0	112.0	168.0	166	2.0	10	2
9.6	3	▲	MQS0960X3DB	30.8	52.0	52.0	103.0	101	2.0	10	1
9.6	5	▲	MQS0960X5DB	50.0	72.0	72.0	123.0	121	2.0	10	1
9.7	3	▲	MQS0970X3DB	31.1	52.0	52.0	103.0	101	2.0	10	1
9.7	5	▲	MQS0970X5DB	50.5	72.0	72.0	123.0	121	2.0	10	1
9.8	3	▲	MQS0980X3DB	31.4	52.0	52.0	103.0	101	2.0	10	1
9.8	5	▲	MQS0980X5DB	51.0	72.0	72.0	123.0	121	2.0	10	1
9.9	3	▲	MQS0990X3DB	31.8	52.1	52.1	103.1	101	2.1	10	1
9.9	5	▲	MQS0990X5DB	51.6	72.1	72.1	123.1	121	2.1	10	1
10.0	3	▲	MQS1000X3DB	32.1	52.1	52.1	103.1	101	2.1	10	1
10.0	5	▲	MQS1000X5DB	52.1	72.1	72.1	123.1	121	2.1	10	1
10.0	8	▲	MQS1000X8DB	82.1	112.1	112.1	168.1	166	2.1	10	2
10.1	3	▲	MQS1010X3DB	32.4	55.1	57.1	113.1	111	2.1	11	1
10.1	5	▲	MQS1010X5DB	52.6	76.1	80.1	136.1	134	2.1	11	1
10.2	3	▲	MQS1020X3DB	32.7	55.1	57.1	113.1	111	2.1	11	1
10.2	5	▲	MQS1020X5DB	53.1	76.1	80.1	136.1	134	2.1	11	1
10.3	3	▲	MQS1030X3DB	33.0	55.1	57.1	113.1	111	2.1	11	1
10.3	5	▲	MQS1030X5DB	53.6	76.1	80.1	136.1	134	2.1	11	1
10.4	3	▲	MQS1040X3DB	33.4	55.2	57.2	113.2	111	2.2	11	1
10.4	5	▲	MQS1040X5DB	54.2	76.2	80.2	136.2	134	2.2	11	1
10.5	3	▲	MQS1050X3DB	33.7	55.2	57.2	113.2	111	2.2	11	1
10.5	5	▲	MQS1050X5DB	54.7	76.2	80.2	136.2	134	2.2	11	1
10.5	8	▲	MQS1050X8DB	86.2	118.2	123.2	184.2	182	2.2	11	2

切削条件 > P054
 使用要点 > P056
 技术资料 > R001

MQS

WSTAR钻头

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LD	LCF	LF	OAL	LF	PL	DCON	
10.6	3	▲	MQS1060X3DB	34.0	57.2	58.2	118.2	116	2.2	11	1
10.6	5	▲	MQS1060X5DB	55.2	79.2	80.2	136.2	134	2.2	11	1
10.7	3	▲	MQS1070X3DB	34.3	57.2	58.2	118.2	116	2.2	11	1
10.7	5	▲	MQS1070X5DB	55.7	79.2	80.2	136.2	134	2.2	11	1
10.8	3	▲	MQS1080X3DB	34.6	57.2	58.2	118.2	116	2.2	11	1
10.8	5	▲	MQS1080X5DB	56.2	79.2	80.2	136.2	134	2.2	11	1
10.9	3	▲	MQS1090X3DB	35.0	57.3	58.3	118.3	116	2.3	11	1
10.9	5	▲	MQS1090X5DB	56.8	79.3	80.3	136.3	134	2.3	11	1
11.0	3	▲	MQS1100X3DB	35.3	57.3	58.3	118.3	116	2.3	11	1
11.0	5	▲	MQS1100X5DB	57.3	79.3	80.3	136.3	134	2.3	11	1
11.0	8	▲	MQS1100X8DB	90.3	123.3	123.3	184.3	182	2.3	11	2
11.1	3	▲	MQS1110X3DB	35.6	60.3	62.3	118.3	116	2.3	12	1
11.1	5	▲	MQS1110X5DB	57.8	83.3	86.3	142.3	140	2.3	12	1
11.2	3	▲	MQS1120X3DB	35.9	60.3	62.3	118.3	116	2.3	12	1
11.2	5	▲	MQS1120X5DB	58.3	83.3	86.3	142.3	140	2.3	12	1
11.3	3	▲	MQS1130X3DB	36.2	60.3	62.3	118.3	116	2.3	12	1
11.3	5	▲	MQS1130X5DB	58.8	83.3	86.3	142.3	140	2.3	12	1
11.4	3	▲	MQS1140X3DB	36.6	60.4	62.4	118.4	116	2.4	12	1
11.4	5	▲	MQS1140X5DB	59.4	83.4	86.4	142.4	140	2.4	12	1
11.5	3	▲	MQS1150X3DB	36.9	60.4	62.4	118.4	116	2.4	12	1
11.5	5	▲	MQS1150X5DB	59.9	83.4	86.4	142.4	140	2.4	12	1
11.5	8	▲	MQS1150X8DB	94.4	129.4	134.4	196.4	194	2.4	12	2
11.6	3	▲	MQS1160X3DB	37.2	62.4	62.4	118.4	116	2.4	12	1
11.6	5	▲	MQS1160X5DB	60.4	86.4	86.4	142.4	140	2.4	12	1
11.7	3	▲	MQS1170X3DB	37.5	62.4	62.4	118.4	116	2.4	12	1
11.7	5	▲	MQS1170X5DB	60.9	86.4	86.4	142.4	140	2.4	12	1
11.8	3	▲	MQS1180X3DB	37.8	62.4	62.4	118.4	116	2.4	12	1
11.8	5	▲	MQS1180X5DB	61.4	86.4	86.4	142.4	140	2.4	12	1
11.9	3	▲	MQS1190X3DB	38.2	62.5	62.5	118.5	116	2.5	12	1
11.9	5	▲	MQS1190X5DB	62.0	86.5	86.5	142.5	140	2.5	12	1
12.0	3	▲	MQS1200X3DB	38.5	62.5	62.5	118.5	116	2.5	12	1
12.0	5	▲	MQS1200X5DB	62.5	86.5	86.5	142.5	140	2.5	12	1
12.0	8	▲	MQS1200X8DB	98.5	134.5	134.5	196.5	194	2.5	12	2
12.1	3	▲	MQS1210X3DB	38.8	65.5	68.5	124.5	122	2.5	13	1
12.1	5	▲	MQS1210X5DB	63.0	90.5	94.5	150.5	148	2.5	13	1
12.2	3	▲	MQS1220X3DB	39.1	65.5	68.5	124.5	122	2.5	13	1
12.2	5	▲	MQS1220X5DB	63.5	90.5	94.5	150.5	148	2.5	13	1
12.3	3	▲	MQS1230X3DB	39.4	65.5	68.5	124.5	122	2.5	13	1
12.3	5	▲	MQS1230X5DB	64.0	90.5	94.5	150.5	148	2.5	13	1
12.4	3	▲	MQS1240X3DB	39.8	65.6	68.6	124.6	122	2.6	13	1
12.4	5	▲	MQS1240X5DB	64.6	90.6	94.6	150.6	148	2.6	13	1
12.5	3	▲	MQS1250X3DB	40.1	65.6	68.6	124.6	122	2.6	13	1
12.5	5	▲	MQS1250X5DB	65.1	90.6	94.6	150.6	148	2.6	13	1
12.5	8	▲	MQS1250X8DB	102.6	140.6	145.6	208.6	206	2.6	13	2
12.6	3	▲	MQS1260X3DB	40.4	67.6	68.6	124.6	122	2.6	13	1
12.6	5	▲	MQS1260X5DB	65.6	93.6	94.6	150.6	148	2.6	13	1
12.7	3	▲	MQS1270X3DB	40.7	67.6	68.6	124.6	122	2.6	13	1
12.7	5	▲	MQS1270X5DB	66.1	93.6	94.6	150.6	148	2.6	13	1
12.8	3	▲	MQS1280X3DB	41.1	67.7	68.7	124.7	122	2.7	13	1
12.8	5	▲	MQS1280X5DB	66.7	93.7	94.7	150.7	148	2.7	13	1

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LD	LCF	LF	OAL	LF	PL	DCON	
12.9	3	▲	MQS1290X3DB	41.4	67.7	68.7	124.7	122	2.7	13	1
12.9	5	▲	MQS1290X5DB	67.2	93.7	94.7	150.7	148	2.7	13	1
13.0	3	▲	MQS1300X3DB	41.7	67.7	68.7	124.7	122	2.7	13	1
13.0	5	▲	MQS1300X5DB	67.7	93.7	94.7	150.7	148	2.7	13	1
13.0	8	▲	MQS1300X8DB	106.7	145.7	145.7	208.7	206	2.7	13	2
13.1	3	▲	MQS1310X3DB	42.0	70.7	72.7	128.7	126	2.7	14	1
13.1	5	▲	MQS1310X5DB	68.2	97.7	100.7	156.7	154	2.7	14	1
13.2	3	▲	MQS1320X3DB	42.3	70.7	72.7	128.7	126	2.7	14	1
13.2	5	▲	MQS1320X5DB	68.7	97.7	100.7	156.7	154	2.7	14	1
13.3	3	▲	MQS1330X3DB	42.7	70.8	72.8	128.8	126	2.8	14	1
13.3	5	▲	MQS1330X5DB	69.3	97.8	100.8	156.8	154	2.8	14	1
13.4	3	▲	MQS1340X3DB	43.0	70.8	72.8	128.8	126	2.8	14	1
13.4	5	▲	MQS1340X5DB	69.8	97.8	100.8	156.8	154	2.8	14	1
13.5	3	▲	MQS1350X3DB	43.3	70.8	72.8	128.8	126	2.8	14	1
13.5	5	▲	MQS1350X5DB	70.3	97.8	100.8	156.8	154	2.8	14	1
13.5	8	▲	MQS1350X8DB	110.8	151.8	156.8	220.8	218	2.8	14	2
13.6	3	▲	MQS1360X3DB	43.6	72.8	72.8	128.8	126	2.8	14	1
13.6	5	▲	MQS1360X5DB	70.8	100.8	100.8	156.8	154	2.8	14	1
13.7	3	▲	MQS1370X3DB	43.9	72.8	72.8	128.8	126	2.8	14	1
13.7	5	▲	MQS1370X5DB	71.3	100.8	100.8	156.8	154	2.8	14	1
13.8	3	▲	MQS1380X3DB	44.3	72.9	72.9	128.9	126	2.9	14	1
13.8	5	▲	MQS1380X5DB	71.9	100.9	100.9	156.9	154	2.9	14	1
13.9	3	▲	MQS1390X3DB	44.6	72.9	72.9	128.9	126	2.9	14	1
13.9	5	▲	MQS1390X5DB	72.4	100.9	100.9	156.9	154	2.9	14	1
14.0	3	▲	MQS1400X3DB	44.9	72.9	72.9	128.9	126	2.9	14	1
14.0	5	▲	MQS1400X5DB	72.9	100.9	100.9	156.9	154	2.9	14	1
14.0	8	▲	MQS1400X8DB	114.9	156.9	156.9	220.9	218	2.9	14	2
14.1	3	▲	MQS1410X3DB	45.2	75.9	78.9	137.9	135	2.9	15	1
14.1	5	▲	MQS1410X5DB	73.4	104.9	108.9	167.9	165	2.9	15	1
14.2	3	▲	MQS1420X3DB	45.5	75.9	78.9	137.9	135	2.9	15	1
14.2	5	▲	MQS1420X5DB	73.9	104.9	108.9	167.9	165	2.9	15	1
14.3	3	▲	MQS1430X3DB	45.9	76.0	79.0	138.0	135	3.0	15	1
14.3	5	▲	MQS1430X5DB	74.5	105.0	109.0	168.0	165	3.0	15	1
14.4	3	▲	MQS1440X3DB	46.2	76.0	79.0	138.0	135	3.0	15	1
14.4	5	▲	MQS1440X5DB	75.0	105.0	109.0	168.0	165	3.0	15	1
14.5	3	▲	MQS1450X3DB	46.5	76.0	79.0	138.0	135	3.0	15	1
14.5	5	▲	MQS1450X5DB	75.5	105.0	109.0	168.0	165	3.0	15	1
14.5	8	▲	MQS1450X8DB	119.0	163.0	168.0	228.0	225	3.0	15	2
14.6	3	▲	MQS1460X3DB	46.8	78.0	79.0	138.0	135	3.0	15	1
14.6	5	▲	MQS1460X5DB	76.0	108.0	109.0	168.0	165	3.0	15	1
14.7	3	▲	MQS1470X3DB	47.1	78.0	79.0	138.0	135	3.0	15	1
14.7	5	▲	MQS1470X5DB	76.5	108.0	109.0	168.0	165	3.0	15	1
14.8	3	▲	MQS1480X3DB	47.5	78.1	79.1	138.1	135	3.1	15	1
14.8	5	▲	MQS1480X5DB	77.1	108.1	109.1	168.1	165	3.1	15	1
14.9	3	▲	MQS1490X3DB	47.8	78.1	79.1	138.1	135	3.1	15	1
14.9	5	▲	MQS1490X5DB	77.6	108.1	109.1	168.1	165	3.1	15	1
15.0	3	▲	MQS1500X3DB	48.1	78.1	79.1	138.1	135	3.1	15	1
15.0	5	▲	MQS1500X5DB	78.1	108.1	109.1	168.1	165	3.1	15	1
15.0	8	▲	MQS1500X8DB	123.1	168.1	168.1	228.1	225	3.1	15	2
15.1	3	▲	MQS1510X3DB	48.4	81.1	83.1	142.1	139	3.1	16	1

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

▲: 预定在2020年3月底结束订货的产品

□: 预订生产品

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
15.1	5	▲	MQS1510X5DB	78.6	112.1	115.1	174.1	171	3.1	16	1
15.2	3	▲	MQS1520X3DB	48.7	81.1	83.1	142.1	139	3.1	16	1
15.2	5	▲	MQS1520X5DB	79.1	112.1	115.1	174.1	171	3.1	16	1
15.3	3	▲	MQS1530X3DB	49.1	81.2	83.2	142.2	139	3.2	16	1
15.3	5	▲	MQS1530X5DB	79.7	112.2	115.2	174.2	171	3.2	16	1
15.4	3	▲	MQS1540X3DB	49.4	81.2	83.2	142.2	139	3.2	16	1
15.4	5	▲	MQS1540X5DB	80.2	112.2	115.2	174.2	171	3.2	16	1
15.5	3	▲	MQS1550X3DB	49.7	81.2	83.2	142.2	139	3.2	16	1
15.5	5	▲	MQS1550X5DB	80.7	112.2	115.2	174.2	171	3.2	16	1
15.5	8	▲	MQS1550X8DB	127.2	174.2	184.2	244.2	241	3.2	16	2
15.6	3	▲	MQS1560X3DB	50.0	83.2	83.2	142.2	139	3.2	16	1
15.6	5	▲	MQS1560X5DB	81.2	115.2	115.2	174.2	171	3.2	16	1
15.7	3	▲	MQS1570X3DB	50.4	83.3	83.3	142.3	139	3.3	16	1
15.7	5	▲	MQS1570X5DB	81.8	115.3	115.3	174.3	171	3.3	16	1
15.8	3	▲	MQS1580X3DB	50.7	83.3	83.3	142.3	139	3.3	16	1
15.8	5	▲	MQS1580X5DB	82.3	115.3	115.3	174.3	171	3.3	16	1
15.9	3	▲	MQS1590X3DB	51.0	83.3	83.3	142.3	139	3.3	16	1
15.9	5	▲	MQS1590X5DB	82.8	115.3	115.3	174.3	171	3.3	16	1
16.0	3	▲	MQS1600X3DB	51.3	83.3	83.3	142.3	139	3.3	16	1
16.0	5	▲	MQS1600X5DB	83.3	115.3	115.3	174.3	171	3.3	16	1
16.0	8	▲	MQS1600X8DB	131.3	179.3	184.3	244.3	241	3.3	16	2
16.1	3	□	MQS1610X3DB	51.6	86.3	89.3	148.3	145	3.3	17	1
16.1	5	□	MQS1610X5DB	83.8	119.3	123.3	182.3	179	3.3	17	1
16.2	3	□	MQS1620X3DB	52.0	86.4	89.4	148.4	145	3.4	17	1
16.2	5	□	MQS1620X5DB	84.4	119.4	123.4	182.4	179	3.4	17	1
16.3	3	□	MQS1630X3DB	52.3	86.4	89.4	148.4	145	3.4	17	1
16.3	5	□	MQS1630X5DB	84.9	119.4	123.4	182.4	179	3.4	17	1
16.4	3	□	MQS1640X3DB	52.6	86.4	89.4	148.4	145	3.4	17	1
16.4	5	□	MQS1640X5DB	85.4	119.4	123.4	182.4	179	3.4	17	1
16.5	3	▲	MQS1650X3DB	52.9	86.4	89.4	148.4	145	3.4	17	1
16.5	5	▲	MQS1650X5DB	85.9	119.4	123.4	182.4	179	3.4	17	1
16.6	3	□	MQS1660X3DB	53.2	88.4	89.4	148.4	145	3.4	17	1
16.6	5	□	MQS1660X5DB	86.4	122.4	123.4	182.4	179	3.4	17	1
16.7	3	□	MQS1670X3DB	53.6	88.5	89.5	148.5	145	3.5	17	1
16.7	5	□	MQS1670X5DB	87.0	122.5	123.5	182.5	179	3.5	17	1
16.8	3	□	MQS1680X3DB	53.9	88.5	89.5	148.5	145	3.5	17	1
16.8	5	□	MQS1680X5DB	87.5	122.5	123.5	182.5	179	3.5	17	1
16.9	3	□	MQS1690X3DB	54.2	88.5	89.5	148.5	145	3.5	17	1
16.9	5	□	MQS1690X5DB	88.0	122.5	123.5	182.5	179	3.5	17	1
17.0	3	▲	MQS1700X3DB	54.5	88.5	89.5	148.5	145	3.5	17	1
17.0	5	▲	MQS1700X5DB	88.5	122.5	123.5	182.5	179	3.5	17	1
17.1	3	□	MQS1710X3DB	54.8	91.5	93.5	152.5	149	3.5	18	1
17.1	5	□	MQS1710X5DB	89.0	126.5	129.5	188.5	185	3.5	18	1
17.2	3	□	MQS1720X3DB	55.2	91.6	93.6	152.6	149	3.6	18	1
17.2	5	□	MQS1720X5DB	89.6	126.6	129.6	188.6	185	3.6	18	1
17.3	3	□	MQS1730X3DB	55.5	91.6	93.6	152.6	149	3.6	18	1
17.3	5	□	MQS1730X5DB	90.1	126.6	129.6	188.6	185	3.6	18	1
17.4	3	□	MQS1740X3DB	55.8	91.6	93.6	152.6	149	3.6	18	1
17.4	5	□	MQS1740X5DB	90.6	126.6	129.6	188.6	185	3.6	18	1
17.5	3	▲	MQS1750X3DB	56.1	91.6	93.6	152.6	149	3.6	18	1
17.5	5	▲	MQS1750X5DB	91.1	126.6	129.6	188.6	185	3.6	18	1

DC (mm)	钻削孔深 (L/D)	DP3020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
17.6	3	□	MQS1760X3DB	56.4	93.6	93.6	152.6	149	3.6	18	1
17.6	5	□	MQS1760X5DB	91.6	129.6	129.6	188.6	185	3.6	18	1
17.7	3	□	MQS1770X3DB	56.8	93.7	93.7	152.7	149	3.7	18	1
17.7	5	□	MQS1770X5DB	92.2	129.7	129.7	188.7	185	3.7	18	1
17.8	3	□	MQS1780X3DB	57.1	93.7	93.7	152.7	149	3.7	18	1
17.8	5	□	MQS1780X5DB	92.7	129.7	129.7	188.7	185	3.7	18	1
17.9	3	□	MQS1790X3DB	57.4	93.7	93.7	152.7	149	3.7	18	1
17.9	5	□	MQS1790X5DB	93.2	129.7	129.7	188.7	185	3.7	18	1
18.0	3	▲	MQS1800X3DB	57.7	93.7	93.7	152.7	149	3.7	18	1
18.0	5	▲	MQS1800X5DB	93.7	129.7	129.7	188.7	185	3.7	18	1
18.1	3	□	MQS1810X3DB	58.0	96.7	99.7	160.7	157	3.7	19	1
18.1	5	□	MQS1810X5DB	94.2	133.7	137.7	198.7	195	3.7	19	1
18.2	3	□	MQS1820X3DB	58.4	96.8	99.8	160.8	157	3.8	19	1
18.2	5	□	MQS1820X5DB	94.8	133.8	137.8	198.8	195	3.8	19	1
18.3	3	□	MQS1830X3DB	58.7	96.8	99.8	160.8	157	3.8	19	1
18.3	5	□	MQS1830X5DB	95.3	133.8	137.8	198.8	195	3.8	19	1
18.4	3	□	MQS1840X3DB	59.0	96.8	99.8	160.8	157	3.8	19	1
18.4	5	□	MQS1840X5DB	95.8	133.8	137.8	198.8	195	3.8	19	1
18.5	3	▲	MQS1850X3DB	59.3	96.8	99.8	160.8	157	3.8	19	1
18.5	5	▲	MQS1850X5DB	96.3	133.8	137.8	198.8	195	3.8	19	1
18.6	3	□	MQS1860X3DB	59.7	98.9	99.9	160.9	157	3.9	19	1
18.6	5	□	MQS1860X5DB	96.9	136.9	137.9	198.9	195	3.9	19	1
18.7	3	□	MQS1870X3DB	60.0	98.9	99.9	160.9	157	3.9	19	1
18.7	5	□	MQS1870X5DB	97.4	136.9	137.9	198.9	195	3.9	19	1
18.8	3	□	MQS1880X3DB	60.3	98.9	99.9	160.9	157	3.9	19	1
18.8	5	□	MQS1880X5DB	97.9	136.9	137.9	198.9	195	3.9	19	1
18.9	3	□	MQS1890X3DB	60.6	98.9	99.9	160.9	157	3.9	19	1
18.9	5	□	MQS1890X5DB	98.4	136.9	137.9	198.9	195	3.9	19	1
19.0	3	▲	MQS1900X3DB	60.9	98.9	99.9	160.9	157	3.9	19	1
19.0	5	▲	MQS1900X5DB	98.9	136.9	137.9	198.9	195	3.9	19	1
19.1	3	□	MQS1910X3DB	61.3	102.0	104.0	165.0	161	4.0	20	1
19.1	5	□	MQS1910X5DB	99.5	141.0	144.0	205.0	201	4.0	20	1
19.2	3	□	MQS1920X3DB	61.6	102.0	104.0	165.0	161	4.0	20	1
19.2	5	□	MQS1920X5DB	100.0	141.0	144.0	205.0	201	4.0	20	1
19.3	3	□	MQS1930X3DB	61.9	102.0	104.0	165.0	161	4.0	20	1
19.3	5	□	MQS1930X5DB	100.5	141.0	144.0	205.0	201	4.0	20	1
19.4	3	□	MQS1940X3DB	62.2	102.0	104.0	165.0	161	4.0	20	1
19.4	5	□	MQS1940X5DB	101.0	141.0	144.0	205.0	201	4.0	20	1
19.5	3	▲	MQS1950X3DB	62.5	102.0	104.0	165.0	161	4.0	20	1
19.5	5	▲	MQS1950X5DB	101.5	141.0	144.0	205.0	201	4.0	20	1
19.6	3	□	MQS1960X3DB	62.9	104.1	104.1	165.1	161	4.1	20	1
19.6	5	□	MQS1960X5DB	102.1	144.1	144.1	205.1	201	4.1	20	1
19.7	3	□	MQS1970X3DB	63.2	104.1	104.1	165.1	161	4.1	20	1
19.7	5	□	MQS1970X5DB	102.6	144.1	144.1	205.1	201	4.1	20	1
19.8	3	□	MQS1980X3DB	63.5	104.1	104.1	165.1	161	4.1	20	1
19.8	5	□	MQS1980X5DB	103.1	144.1	144.1	205.1	201	4.1	20	1
19.9	3	□	MQS1990X3DB	63.8	104.1	104.1	165.1	161	4.1	20	1
19.9	5	□	MQS1990X5DB	103.6	144.1	144.1	205.1	201	4.1	20	1
20.0	3	▲	MQS2000X3DB	64.1	104.1	104.1	165.1	161	4.1	20	1
20.0	5	▲	MQS2000X5DB	104.1	144.1	144.1	205.1	201	4.1	20	1

切削条件 > P054
 使用要点 > P056
 技术资料 > R001

推荐切削条件

■ 内冷却

工件材料	软钢 (≤HB180)					碳钢、合金钢 (HB180—280)				
	SS400、S10C等					S45C、SCM440等				
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		进给速度 (mm/min)
3.2	130	12900	0.15	(0.10—0.20)	1935	100	9900	0.15	(0.10—0.20)	1485
4.0	130	10300	0.2	(0.15—0.25)	2060	100	7900	0.2	(0.15—0.25)	1580
5.0	130	8200	0.2	(0.15—0.25)	1640	100	6300	0.2	(0.15—0.25)	1260
6.3	140	7000	0.25	(0.20—0.30)	1750	130	6500	0.25	(0.20—0.30)	1625
8.0	140	5500	0.25	(0.20—0.30)	1375	130	5100	0.25	(0.20—0.30)	1275
10.0	140	4400	0.27	(0.22—0.32)	1185	130	4100	0.27	(0.22—0.32)	1105
12.0	160	4200	0.3	(0.26—0.35)	1260	140	3700	0.3	(0.26—0.35)	1110
16.0	180	3500	0.33	(0.27—0.38)	1155	150	2900	0.33	(0.27—0.38)	955
20.0	180	2800	0.35	(0.30—0.40)	980	150	2300	0.35	(0.30—0.40)	805

工件材料	碳钢、合金钢 (HB280—350)					灰铸铁 (≤350MPa)				
	SNCM439等					FC300等				
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		进给速度 (mm/min)
3.2	70	6900	0.1	(0.06—0.15)	690	110	10900	0.28	(0.15—0.35)	3050
4.0	80	6300	0.11	(0.07—0.15)	690	110	8700	0.28	(0.15—0.35)	2435
5.0	80	5000	0.14	(0.09—0.18)	700	110	7000	0.3	(0.15—0.40)	2100
6.3	90	4500	0.18	(0.11—0.24)	810	120	6000	0.33	(0.20—0.45)	1980
8.0	100	3900	0.21	(0.16—0.25)	815	120	4700	0.35	(0.20—0.45)	1645
10.0	110	3500	0.23	(0.19—0.27)	805	130	4100	0.4	(0.22—0.45)	1640
12.0	120	3100	0.26	(0.22—0.30)	805	150	3900	0.45	(0.26—0.50)	1755
16.0	130	2500	0.28	(0.23—0.33)	700	160	3100	0.5	(0.28—0.60)	1550
20.0	130	2000	0.3	(0.26—0.35)	600	160	2500	0.5	(0.30—0.60)	1250

工件材料	球墨铸铁 (≤450MPa)				球墨铸铁 (≤800MPa)				
	FCD450等				FCD700等				
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		进给速度 (mm/min)
3.2	90	8900	0.25 (0.15—0.32)	2225	75	7400	0.1	(0.06—0.15)	740
4.0	90	7100	0.25 (0.15—0.32)	1775	75	5900	0.1	(0.06—0.15)	590
5.0	90	5700	0.25 (0.15—0.32)	1425	75	4700	0.1	(0.06—0.15)	470
6.3	100	5000	0.3 (0.20—0.38)	1500	85	4200	0.15	(0.10—0.20)	630
8.0	100	3900	0.3 (0.20—0.38)	1170	85	3300	0.2	(0.10—0.25)	660
10.0	100	3100	0.3 (0.22—0.38)	930	85	2700	0.2	(0.10—0.25)	540
12.0	110	2900	0.35 (0.26—0.40)	1015	95	2500	0.25	(0.20—0.30)	625
16.0	120	2300	0.35 (0.28—0.40)	805	110	2100	0.25	(0.20—0.30)	525
20.0	120	1900	0.35 (0.30—0.40)	665	110	1700	0.3	(0.20—0.35)	510

注1) 为实现稳定切削,推荐使用内部冷却孔供给高压冷却液。

注2) 推荐使用乳化液型水溶性切削液。

■ M.Q.L.

工件材料	软钢 (≤HB180)				碳钢、合金钢 (HB180—280)			
	SS400、S10C等				S45C、SCM440等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
3.2	100	9900	0.15 (0.10—0.20)	1485	80	7900	0.15 (0.10—0.20)	1185
4.0	100	7900	0.2 (0.15—0.25)	1580	80	6300	0.2 (0.15—0.25)	1260
5.0	100	6300	0.2 (0.15—0.25)	1260	80	5000	0.2 (0.15—0.25)	1000
6.3	110	5500	0.25 (0.20—0.30)	1375	100	5000	0.25 (0.20—0.30)	1250
8.0	110	4300	0.25 (0.20—0.30)	1075	100	3900	0.25 (0.20—0.30)	975
10.0	110	3500	0.27 (0.22—0.32)	945	100	3100	0.27 (0.22—0.32)	835
12.0	130	3400	0.3 (0.26—0.35)	1020	110	2900	0.3 (0.26—0.35)	870
16.0	140	2700	0.33 (0.27—0.38)	890	120	2300	0.33 (0.27—0.38)	755
20.0	140	2200	0.35 (0.30—0.40)	770	120	1900	0.35 (0.30—0.40)	665

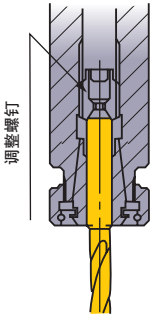
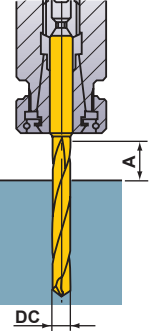
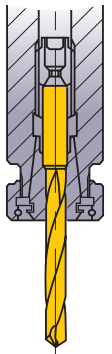
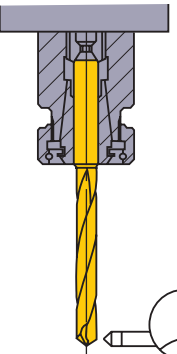
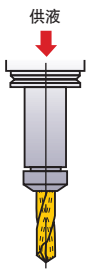
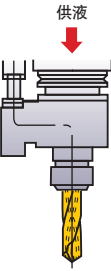
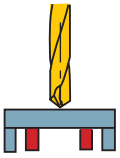
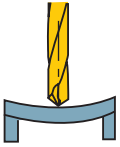
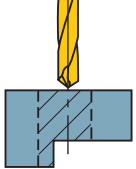
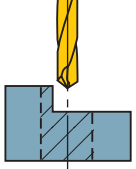
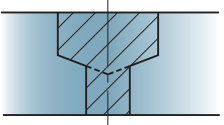
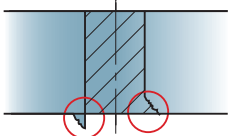
工件材料	碳钢、合金钢 (HB280—350)				灰铸铁 (≤350MPa)			
	SNCM439等				FC300等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
3.2	60	5900	0.1 (0.06—0.15)	590	90	8900	0.28 (0.15—0.35)	2490
4.0	60	4700	0.11 (0.07—0.15)	515	90	7100	0.28 (0.15—0.35)	1985
5.0	60	3800	0.14 (0.09—0.18)	530	90	5700	0.3 (0.15—0.40)	1710
6.3	60	3000	0.18 (0.11—0.24)	540	100	5000	0.33 (0.20—0.45)	1650
8.0	60	2300	0.21 (0.16—0.25)	480	100	3900	0.35 (0.20—0.45)	1365
10.0	60	1900	0.23 (0.19—0.27)	435	100	3100	0.4 (0.22—0.45)	1240
12.0	80	2100	0.26 (0.22—0.30)	545	120	3100	0.45 (0.26—0.50)	1395
16.0	80	1500	0.28 (0.23—0.33)	420	130	2500	0.5 (0.28—0.60)	1250
20.0	80	1200	0.3 (0.26—0.35)	360	130	2000	0.5 (0.30—0.60)	1000

工件材料	球墨铸铁 (≤450MPa)				球墨铸铁 (≤800MPa)			
	FCD450等				FCD700等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
3.2	70	6900	0.25 (0.15—0.32)	1725	60	5900	0.1 (0.06—0.15)	590
4.0	70	5500	0.25 (0.15—0.32)	1375	60	4700	0.1 (0.06—0.15)	470
5.0	70	4400	0.25 (0.15—0.32)	1100	60	3800	0.1 (0.06—0.15)	380
6.3	80	4000	0.3 (0.20—0.38)	1200	70	3500	0.15 (0.10—0.20)	525
8.0	80	3100	0.3 (0.20—0.38)	930	70	2700	0.2 (0.10—0.25)	540
10.0	80	2500	0.3 (0.22—0.38)	750	70	2200	0.2 (0.10—0.25)	440
12.0	90	2300	0.35 (0.26—0.40)	805	80	2100	0.25 (0.20—0.30)	525
16.0	100	1900	0.35 (0.28—0.40)	665	90	1700	0.25 (0.20—0.30)	425
20.0	100	1500	0.35 (0.30—0.40)	525	90	1400	0.3 (0.20—0.35)	420

P

钻头

■ MQS....X3DB, MQS....X5DB, MQS....X8DB 的高级使用方法

钻头装夹  使用推力轴承型的弹簧夹头可确保夹紧。	确定装夹钻头长度的方法  图中的A尺寸要确保DCx1.5以上。	安装注意事项  NG 不能把钻头的沟槽部位夹住。	安装时的振摆  振摆应在0.03mm以内。
供液方法 (MQS) 主轴供应型  旋转供液装置  切削液工作压力0.5MPa-7MPa	切削液的管理 <使用MQS钻头时> 1) 供液系统必须安装切削液过滤网。细小的切屑颗粒等会堵塞冷却孔。特别是使用小直径钻头,应尽量选用细目滤网。 2) 切削液用久后,液中的细小杂物会附在冷却孔内,导致供液不畅。应及时更换。		
薄板钻削  OK 增加支承  NG 发生挠曲	断续钻削  可以加工 OK ①断续面处应降低进给量。  前加工必要 ①先由立铣刀铤孔。	阶梯孔钻削  ①可分两个工序钻削。 ②先钻削大直径部分。 ※本公司也制造带铤孔或倒角刃的复合钻头。	将钻通时出现毛刺、塌陷  ①将钻通时应降低进给量。 ②钻头肩部处理成倒角。 ③改变钻头顶角。

P

M

K

N

S

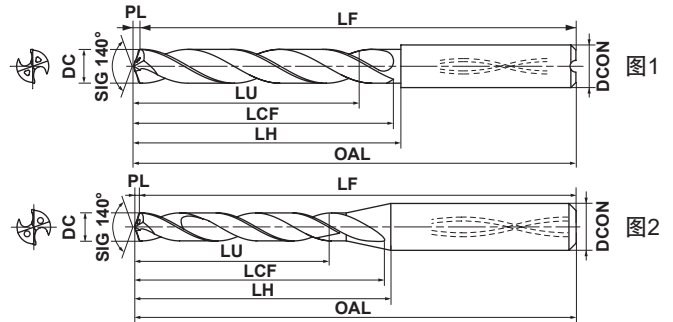
H

不锈钢

内冷却



DC=3	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
$\overset{0}{-0.014}$	$\overset{0}{-0.018}$	$\overset{0}{-0.022}$	$\overset{0}{-0.027}$	$\overset{0}{-0.033}$
	3<DCON≤6	6<DCON≤10	10<DCON≤18	18<DCON≤20
	$\overset{0}{-0.008}$	$\overset{0}{-0.009}$	$\overset{0}{-0.011}$	$\overset{0}{-0.013}$



※涂层颜色由于观察角度会有所不同，
但在性能方面完全没有问题。

注1) MMS型全部产品均可用于热缩式刀柄。

DC (mm)	钻削孔深 (L/D)	DP7020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.0	3	●	MMS0300X3DB	9.5	21.5	23.5	70.5	70	0.5	6	2
3.0	5	●	MMS0300X5DB	15.5	28.5	31.5	78.5	78	0.5	6	2
3.1	3	●	MMS0310X3DB	9.9	21.6	23.6	70.6	70	0.6	6	2
3.1	5	●	MMS0310X5DB	16.1	28.6	31.6	78.6	78	0.6	6	2
3.2	3	●	MMS0320X3DB	10.2	21.6	23.6	70.6	70	0.6	6	2
3.2	5	●	MMS0320X5DB	16.6	28.6	31.6	78.6	78	0.6	6	2
3.3	3	●	MMS0330X3DB	10.5	21.6	23.6	70.6	70	0.6	6	2
3.3	5	●	MMS0330X5DB	17.1	28.6	31.6	78.6	78	0.6	6	2
3.4	3	●	MMS0340X3DB	10.8	21.6	23.6	70.6	70	0.6	6	2
3.4	5	●	MMS0340X5DB	17.6	28.6	31.6	78.6	78	0.6	6	2
3.5	3	●	MMS0350X3DB	11.1	21.6	23.6	70.6	70	0.6	6	2
3.5	5	●	MMS0350X5DB	18.1	28.6	31.6	78.6	78	0.6	6	2
3.6	3	●	MMS0360X3DB	11.5	22.7	23.7	70.7	70	0.7	6	2
3.6	5	●	MMS0360X5DB	18.7	30.7	31.7	78.7	78	0.7	6	2
3.7	3	●	MMS0370X3DB	11.8	22.7	23.7	70.7	70	0.7	6	2
3.7	5	●	MMS0370X5DB	19.2	30.7	31.7	78.7	78	0.7	6	2
3.8	3	●	MMS0380X3DB	12.1	22.7	23.7	70.7	70	0.7	6	2
3.8	5	●	MMS0380X5DB	19.7	30.7	31.7	78.7	78	0.7	6	2
3.9	3	●	MMS0390X3DB	12.4	22.7	23.7	70.7	70	0.7	6	2
3.9	5	●	MMS0390X5DB	20.2	30.7	31.7	78.7	78	0.7	6	2
4.0	3	●	MMS0400X3DB	12.7	22.7	23.7	70.7	70	0.7	6	2
4.0	5	●	MMS0400X5DB	20.7	30.7	31.7	78.7	78	0.7	6	2
4.1	3	●	MMS0410X3DB	13.0	24.7	26.7	73.7	73	0.7	6	2
4.1	5	●	MMS0410X5DB	21.2	33.7	35.7	82.7	82	0.7	6	2
4.2	3	●	MMS0420X3DB	13.4	24.8	26.8	73.8	73	0.8	6	2
4.2	5	●	MMS0420X5DB	21.8	33.8	35.8	82.8	82	0.8	6	2
4.3	3	●	MMS0430X3DB	13.7	24.8	26.8	73.8	73	0.8	6	2
4.3	5	●	MMS0430X5DB	22.3	33.8	35.8	82.8	82	0.8	6	2
4.4	3	●	MMS0440X3DB	14.0	24.8	26.8	73.8	73	0.8	6	2
4.4	5	●	MMS0440X5DB	22.8	33.8	35.8	82.8	82	0.8	6	2
4.5	3	●	MMS0450X3DB	14.3	24.8	26.8	73.8	73	0.8	6	2
4.5	5	●	MMS0450X5DB	23.3	33.8	35.8	82.8	82	0.8	6	2
4.6	3	●	MMS0460X3DB	14.6	25.8	28.8	75.8	75	0.8	6	1
4.6	5	●	MMS0460X5DB	23.8	35.8	38.8	85.8	85	0.8	6	1
4.7	3	●	MMS0470X3DB	15.0	25.9	28.9	75.9	75	0.9	6	1
4.7	5	●	MMS0470X5DB	24.4	35.9	38.9	85.9	85	0.9	6	1

DC (mm)	钻削孔深 (L/D)	DP7020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.8	3	●	MMS0480X3DB	15.3	25.9	28.9	75.9	75	0.9	6	1
4.8	5	●	MMS0480X5DB	24.9	35.9	38.9	85.9	85	0.9	6	1
4.9	3	●	MMS0490X3DB	15.6	25.9	28.9	75.9	75	0.9	6	1
4.9	5	●	MMS0490X5DB	25.4	35.9	38.9	85.9	85	0.9	6	1
5.0	3	●	MMS0500X3DB	15.9	25.9	28.9	75.9	75	0.9	6	1
5.0	5	●	MMS0500X5DB	25.9	35.9	38.9	85.9	85	0.9	6	1
5.1	3	●	MMS0510X3DB	16.2	28.9	30.9	81.9	81	0.9	6	1
5.1	5	●	MMS0510X5DB	26.4	39.9	42.9	89.9	89	0.9	6	1
5.2	3	●	MMS0520X3DB	16.5	28.9	30.9	81.9	81	0.9	6	1
5.2	5	●	MMS0520X5DB	26.9	39.9	42.9	89.9	89	0.9	6	1
5.3	3	●	MMS0530X3DB	16.9	29.0	31.0	82.0	81	1.0	6	1
5.3	5	●	MMS0530X5DB	27.5	40.0	43.0	90.0	89	1.0	6	1
5.4	3	●	MMS0540X3DB	17.2	29.0	31.0	82.0	81	1.0	6	1
5.4	5	●	MMS0540X5DB	28.0	40.0	43.0	90.0	89	1.0	6	1
5.5	3	●	MMS0550X3DB	17.5	29.0	31.0	82.0	81	1.0	6	1
5.5	5	●	MMS0550X5DB	28.5	40.0	43.0	90.0	89	1.0	6	1
5.6	3	●	MMS0560X3DB	17.8	31.0	31.0	82.0	81	1.0	6	1
5.6	5	●	MMS0560X5DB	29.0	43.0	43.0	90.0	89	1.0	6	1
5.7	3	●	MMS0570X3DB	18.1	31.0	31.0	82.0	81	1.0	6	1
5.7	5	●	MMS0570X5DB	29.5	43.0	43.0	90.0	89	1.0	6	1
5.8	3	●	MMS0580X3DB	18.5	31.1	31.1	82.1	81	1.1	6	1
5.8	5	●	MMS0580X5DB	30.1	43.1	43.1	90.1	89	1.1	6	1
5.9	3	●	MMS0590X3DB	18.8	31.1	31.1	82.1	81	1.1	6	1
5.9	5	●	MMS0590X5DB	30.6	43.1	43.1	90.1	89	1.1	6	1
6.0	3	●	MMS0600X3DB	19.1	31.1	31.1	82.1	81	1.1	6	1
6.0	5	●	MMS0600X5DB	31.1	43.1	43.1	90.1	89	1.1	6	1
6.1	3	●	MMS0610X3DB	19.4	34.1	36.1	87.1	86	1.1	8	1
6.1	5	●	MMS0610X5DB	31.6	47.1	49.1	96.1	95	1.1	8	1
6.2	3	●	MMS0620X3DB	19.7	34.1	36.1	87.1	86	1.1	8	1
6.2	5	●	MMS0620X5DB	32.1	47.1	49.1	96.1	95	1.1	8	1
6.3	3	●	MMS0630X3DB	20.0	34.1	36.1	87.1	86	1.1	8	1
6.3	5	●	MMS0630X5DB	32.6	47.1	49.1	96.1	95	1.1	8	1
6.4	3	●	MMS0640X3DB	20.4	34.2	36.2	87.2	86	1.2	8	1
6.4	5	●	MMS0640X5DB	33.2	47.2	49.2	96.2	95	1.2	8	1
6.5	3	●	MMS0650X3DB	20.7	34.2	36.2	87.2	86	1.2	8	1
6.5	5	●	MMS0650X5DB	33.7	47.2	49.2	96.2	95	1.2	8	1

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

注2) ø6mm以下钻头的冷却孔形状为圆形

●: 标准库存品

P

钻头

DC (mm)	钻 削 孔 深 (L/D)	DP7020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.6	3	●	MMS0660X3DB	21.0	36.2	38.2	91.2	90	1.2	8	1
6.6	5	●	MMS0660X5DB	34.2	50.2	52.2	99.2	98	1.2	8	1
6.7	3	●	MMS0670X3DB	21.3	36.2	38.2	91.2	90	1.2	8	1
6.7	5	●	MMS0670X5DB	34.7	50.2	52.2	99.2	98	1.2	8	1
6.8	3	●	MMS0680X3DB	21.6	36.2	38.2	91.2	90	1.2	8	1
6.8	5	●	MMS0680X5DB	35.2	50.2	52.2	99.2	98	1.2	8	1
6.9	3	●	MMS0690X3DB	22.0	36.3	38.3	91.3	90	1.3	8	1
6.9	5	●	MMS0690X5DB	35.8	50.3	52.3	99.3	98	1.3	8	1
7.0	3	●	MMS0700X3DB	22.3	36.3	38.3	91.3	90	1.3	8	1
7.0	5	●	MMS0700X5DB	36.3	50.3	52.3	99.3	98	1.3	8	1
7.1	3	●	MMS0710X3DB	22.6	39.3	40.3	91.3	90	1.3	8	1
7.1	5	●	MMS0710X5DB	36.8	54.3	57.3	104.3	103	1.3	8	1
7.2	3	●	MMS0720X3DB	22.9	39.3	40.3	91.3	90	1.3	8	1
7.2	5	●	MMS0720X5DB	37.3	54.3	57.3	104.3	103	1.3	8	1
7.3	3	●	MMS0730X3DB	23.2	39.3	40.3	91.3	90	1.3	8	1
7.3	5	●	MMS0730X5DB	37.8	54.3	57.3	104.3	103	1.3	8	1
7.4	3	●	MMS0740X3DB	23.5	39.3	40.3	91.3	90	1.3	8	1
7.4	5	●	MMS0740X5DB	38.3	54.3	57.3	104.3	103	1.3	8	1
7.5	3	●	MMS0750X3DB	23.9	39.4	40.4	91.4	90	1.4	8	1
7.5	5	●	MMS0750X5DB	38.9	54.4	57.4	104.4	103	1.4	8	1
7.6	3	●	MMS0760X3DB	24.2	41.4	41.4	91.4	90	1.4	8	1
7.6	5	●	MMS0760X5DB	39.4	57.4	57.4	104.4	103	1.4	8	1
7.7	3	●	MMS0770X3DB	24.5	41.4	41.4	91.4	90	1.4	8	1
7.7	5	●	MMS0770X5DB	39.9	57.4	57.4	104.4	103	1.4	8	1
7.8	3	●	MMS0780X3DB	24.8	41.4	41.4	91.4	90	1.4	8	1
7.8	5	●	MMS0780X5DB	40.4	57.4	57.4	104.4	103	1.4	8	1
7.9	3	●	MMS0790X3DB	25.1	41.4	41.4	91.4	90	1.4	8	1
7.9	5	●	MMS0790X5DB	40.9	57.4	57.4	104.4	103	1.4	8	1
8.0	3	●	MMS0800X3DB	25.5	41.5	41.5	91.5	90	1.5	8	1
8.0	5	●	MMS0800X5DB	41.5	57.5	57.5	104.5	103	1.5	8	1
8.1	3	●	MMS0810X3DB	25.8	44.5	46.5	97.5	96	1.5	10	1
8.1	5	●	MMS0810X5DB	42.0	61.5	63.5	114.5	113	1.5	10	1
8.2	3	●	MMS0820X3DB	26.1	44.5	46.5	97.5	96	1.5	10	1
8.2	5	●	MMS0820X5DB	42.5	61.5	63.5	114.5	113	1.5	10	1
8.3	3	●	MMS0830X3DB	26.4	44.5	46.5	97.5	96	1.5	10	1
8.3	5	●	MMS0830X5DB	43.0	61.5	63.5	114.5	113	1.5	10	1
8.4	3	●	MMS0840X3DB	26.7	44.5	46.5	97.5	96	1.5	10	1
8.4	5	●	MMS0840X5DB	43.5	61.5	63.5	114.5	113	1.5	10	1
8.5	3	●	MMS0850X3DB	27.0	44.5	46.5	97.5	96	1.5	10	1
8.5	5	●	MMS0850X5DB	44.0	61.5	63.5	114.5	113	1.5	10	1
8.6	3	●	MMS0860X3DB	27.4	46.6	48.6	102.6	101	1.6	10	1
8.6	5	●	MMS0860X5DB	44.6	64.6	66.6	117.6	116	1.6	10	1
8.7	3	●	MMS0870X3DB	27.7	46.6	48.6	102.6	101	1.6	10	1
8.7	5	●	MMS0870X5DB	45.1	64.6	66.6	117.6	116	1.6	10	1
8.8	3	●	MMS0880X3DB	28.0	46.6	48.6	102.6	101	1.6	10	1
8.8	5	●	MMS0880X5DB	45.6	64.6	66.6	117.6	116	1.6	10	1
8.9	3	●	MMS0890X3DB	28.3	46.6	48.6	102.6	101	1.6	10	1
8.9	5	●	MMS0890X5DB	46.1	64.6	66.6	117.6	116	1.6	10	1

DC (mm)	钻 削 孔 深 (L/D)	DP7020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
9.0	3	●	MMS0900X3DB	28.6	46.6	48.6	102.6	101	1.6	10	1
9.0	5	●	MMS0900X5DB	46.6	64.6	66.6	117.6	116	1.6	10	1
9.1	3	●	MMS0910X3DB	29.0	49.7	51.7	102.7	101	1.7	10	1
9.1	5	●	MMS0910X5DB	47.2	68.7	71.7	122.7	121	1.7	10	1
9.2	3	●	MMS0920X3DB	29.3	49.7	51.7	102.7	101	1.7	10	1
9.2	5	●	MMS0920X5DB	47.7	68.7	71.7	122.7	121	1.7	10	1
9.3	3	●	MMS0930X3DB	29.6	49.7	51.7	102.7	101	1.7	10	1
9.3	5	●	MMS0930X5DB	48.2	68.7	71.7	122.7	121	1.7	10	1
9.4	3	●	MMS0940X3DB	29.9	49.7	51.7	102.7	101	1.7	10	1
9.4	5	●	MMS0940X5DB	48.7	68.7	71.7	122.7	121	1.7	10	1
9.5	3	●	MMS0950X3DB	30.2	49.7	51.7	102.7	101	1.7	10	1
9.5	5	●	MMS0950X5DB	49.2	68.7	71.7	122.7	121	1.7	10	1
9.6	3	●	MMS0960X3DB	30.5	51.7	51.7	102.7	101	1.7	10	1
9.6	5	●	MMS0960X5DB	49.7	71.7	71.7	122.7	121	1.7	10	1
9.7	3	●	MMS0970X3DB	30.9	51.8	51.8	102.8	101	1.8	10	1
9.7	5	●	MMS0970X5DB	50.3	71.8	71.8	122.8	121	1.8	10	1
9.8	3	●	MMS0980X3DB	31.2	51.8	51.8	102.8	101	1.8	10	1
9.8	5	●	MMS0980X5DB	50.8	71.8	71.8	122.8	121	1.8	10	1
9.9	3	●	MMS0990X3DB	31.5	51.8	51.8	102.8	101	1.8	10	1
9.9	5	●	MMS0990X5DB	51.3	71.8	71.8	122.8	121	1.8	10	1
10.0	3	●	MMS1000X3DB	31.8	51.8	51.8	102.8	101	1.8	10	1
10.0	5	●	MMS1000X5DB	51.8	71.8	71.8	122.8	121	1.8	10	1
10.1	3	●	MMS1010X3DB	32.1	54.8	56.8	112.8	111	1.8	12	1
10.1	5	●	MMS1010X5DB	52.3	75.8	79.8	135.8	134	1.8	12	1
10.2	3	●	MMS1020X3DB	32.5	54.9	56.9	112.9	111	1.9	12	1
10.2	5	●	MMS1020X5DB	52.9	75.9	79.9	135.9	134	1.9	12	1
10.3	3	●	MMS1030X3DB	32.8	54.9	56.9	112.9	111	1.9	12	1
10.3	5	●	MMS1030X5DB	53.4	75.9	79.9	135.9	134	1.9	12	1
10.4	3	●	MMS1040X3DB	33.1	54.9	56.9	112.9	111	1.9	12	1
10.4	5	●	MMS1040X5DB	53.9	75.9	79.9	135.9	134	1.9	12	1
10.5	3	●	MMS1050X3DB	33.4	54.9	56.9	112.9	111	1.9	12	1
10.5	5	●	MMS1050X5DB	54.4	75.9	79.9	135.9	134	1.9	12	1
10.6	3	●	MMS1060X3DB	33.7	56.9	57.9	117.9	116	1.9	12	1
10.6	5	●	MMS1060X5DB	54.9	78.9	79.9	135.9	134	1.9	12	1
10.7	3	●	MMS1070X3DB	34.0	56.9	57.9	117.9	116	1.9	12	1
10.7	5	●	MMS1070X5DB	55.4	78.9	79.9	135.9	134	1.9	12	1
10.8	3	●	MMS1080X3DB	34.4	57.0	58.0	118.0	116	2.0	12	1
10.8	5	●	MMS1080X5DB	56.0	79.0	80.0	136.0	134	2.0	12	1
10.9	3	●	MMS1090X3DB	34.7	57.0	58.0	118.0	116	2.0	12	1
10.9	5	●	MMS1090X5DB	56.5	79.0	80.0	136.0	134	2.0	12	1
11.0	3	●	MMS1100X3DB	35.0	57.0	58.0	118.0	116	2.0	12	1
11.0	5	●	MMS1100X5DB	57.0	79.0	80.0	136.0	134	2.0	12	1
11.1	3	●	MMS1110X3DB	35.3	60.0	62.0	118.0	116	2.0	12	1
11.1	5	●	MMS1110X5DB	57.5	83.0	86.0	142.0	140	2.0	12	1
11.2	3	●	MMS1120X3DB	35.6	60.0	62.0	118.0	116	2.0	12	1
11.2	5	●	MMS1120X5DB	58.0	83.0	86.0	142.0	140	2.0	12	1
11.3	3	●	MMS1130X3DB	36.0	60.1	62.1	118.1	116	2.1	12	1
11.3	5	●	MMS1130X5DB	58.6	83.1	86.1	142.1	140	2.1	12	1

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	DP7020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
11.4	3	●	MMS1140X3DB	36.3	60.1	62.1	118.1	116	2.1	12	1
11.4	5	●	MMS1140X5DB	59.1	83.1	86.1	142.1	140	2.1	12	1
11.5	3	●	MMS1150X3DB	36.6	60.1	62.1	118.1	116	2.1	12	1
11.5	5	●	MMS1150X5DB	59.6	83.1	86.1	142.1	140	2.1	12	1
11.6	3	●	MMS1160X3DB	36.9	62.1	62.1	118.1	116	2.1	12	1
11.6	5	●	MMS1160X5DB	60.1	86.1	86.1	142.1	140	2.1	12	1
11.7	3	●	MMS1170X3DB	37.2	62.1	62.1	118.1	116	2.1	12	1
11.7	5	●	MMS1170X5DB	60.6	86.1	86.1	142.1	140	2.1	12	1
11.8	3	●	MMS1180X3DB	37.5	62.1	62.1	118.1	116	2.1	12	1
11.8	5	●	MMS1180X5DB	61.1	86.1	86.1	142.1	140	2.1	12	1
11.9	3	●	MMS1190X3DB	37.9	62.2	62.2	118.2	116	2.2	12	1
11.9	5	●	MMS1190X5DB	61.7	86.2	86.2	142.2	140	2.2	12	1
12.0	3	●	MMS1200X3DB	38.2	62.2	62.2	118.2	116	2.2	12	1
12.0	5	●	MMS1200X5DB	62.2	86.2	86.2	142.2	140	2.2	12	1
12.1	3	●	MMS1210X3DB	38.5	65.2	68.2	124.2	122	2.2	14	1
12.1	5	●	MMS1210X5DB	62.7	90.2	94.2	150.2	148	2.2	14	1
12.2	3	●	MMS1220X3DB	38.8	65.2	68.2	124.2	122	2.2	14	1
12.2	5	●	MMS1220X5DB	63.2	90.2	94.2	150.2	148	2.2	14	1
12.3	3	●	MMS1230X3DB	39.1	65.2	68.2	124.2	122	2.2	14	1
12.3	5	●	MMS1230X5DB	63.7	90.2	94.2	150.2	148	2.2	14	1
12.4	3	●	MMS1240X3DB	39.5	65.3	68.3	124.3	122	2.3	14	1
12.4	5	●	MMS1240X5DB	64.3	90.3	94.3	150.3	148	2.3	14	1
12.5	3	●	MMS1250X3DB	39.8	65.3	68.3	124.3	122	2.3	14	1
12.5	5	●	MMS1250X5DB	64.8	90.3	94.3	150.3	148	2.3	14	1
12.6	3	●	MMS1260X3DB	40.1	67.3	68.3	124.3	122	2.3	14	1
12.6	5	●	MMS1260X5DB	65.3	93.3	94.3	150.3	148	2.3	14	1
12.7	3	●	MMS1270X3DB	40.4	67.3	68.3	124.3	122	2.3	14	1
12.7	5	●	MMS1270X5DB	65.8	93.3	94.3	150.3	148	2.3	14	1
12.8	3	●	MMS1280X3DB	40.7	67.3	68.3	124.3	122	2.3	14	1
12.8	5	●	MMS1280X5DB	66.3	93.3	94.3	150.3	148	2.3	14	1
12.9	3	●	MMS1290X3DB	41.0	67.3	68.3	124.3	122	2.3	14	1
12.9	5	●	MMS1290X5DB	66.8	93.3	94.3	150.3	148	2.3	14	1
13.0	3	●	MMS1300X3DB	41.4	67.4	68.4	124.4	122	2.4	14	1
13.0	5	●	MMS1300X5DB	67.4	93.4	94.4	150.4	148	2.4	14	1
13.1	3	●	MMS1310X3DB	41.7	70.4	72.4	128.4	126	2.4	14	1
13.1	5	●	MMS1310X5DB	67.9	97.4	100.4	156.4	154	2.4	14	1
13.2	3	●	MMS1320X3DB	42.0	70.4	72.4	128.4	126	2.4	14	1
13.2	5	●	MMS1320X5DB	68.4	97.4	100.4	156.4	154	2.4	14	1
13.3	3	●	MMS1330X3DB	42.3	70.4	72.4	128.4	126	2.4	14	1
13.3	5	●	MMS1330X5DB	68.9	97.4	100.4	156.4	154	2.4	14	1
13.4	3	●	MMS1340X3DB	42.6	70.4	72.4	128.4	126	2.4	14	1
13.4	5	●	MMS1340X5DB	69.4	97.4	100.4	156.4	154	2.4	14	1
13.5	3	●	MMS1350X3DB	43.0	70.5	72.5	128.5	126	2.5	14	1
13.5	5	●	MMS1350X5DB	70.0	97.5	100.5	156.5	154	2.5	14	1
13.6	3	●	MMS1360X3DB	43.3	72.5	72.5	128.5	126	2.5	14	1
13.6	5	●	MMS1360X5DB	70.5	100.5	100.5	156.5	154	2.5	14	1
13.7	3	●	MMS1370X3DB	43.6	72.5	72.5	128.5	126	2.5	14	1
13.7	5	●	MMS1370X5DB	71.0	100.5	100.5	156.5	154	2.5	14	1

DC (mm)	钻削孔深 (L/D)	DP7020	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
13.8	3	●	MMS1380X3DB	43.9	72.5	72.5	128.5	126	2.5	14	1
13.8	5	●	MMS1380X5DB	71.5	100.5	100.5	156.5	154	2.5	14	1
13.9	3	●	MMS1390X3DB	44.2	72.5	72.5	128.5	126	2.5	14	1
13.9	5	●	MMS1390X5DB	72.0	100.5	100.5	156.5	154	2.5	14	1
14.0	3	●	MMS1400X3DB	44.5	72.5	72.5	128.5	126	2.5	14	1
14.0	5	●	MMS1400X5DB	72.5	100.5	100.5	156.5	154	2.5	14	1
14.1	3	●	MMS1410X3DB	44.9	75.6	78.6	137.6	135	2.6	16	1
14.1	5	●	MMS1410X5DB	73.1	104.6	108.6	167.6	165	2.6	16	1
14.2	3	●	MMS1420X3DB	45.2	75.6	78.6	137.6	135	2.6	16	1
14.2	5	●	MMS1420X5DB	73.6	104.6	108.6	167.6	165	2.6	16	1
14.3	3	●	MMS1430X3DB	45.5	75.6	78.6	137.6	135	2.6	16	1
14.3	5	●	MMS1430X5DB	74.1	104.6	108.6	167.6	165	2.6	16	1
14.4	3	●	MMS1440X3DB	45.8	75.6	78.6	137.6	135	2.6	16	1
14.4	5	●	MMS1440X5DB	74.6	104.6	108.6	167.6	165	2.6	16	1
14.5	3	●	MMS1450X3DB	46.1	75.6	78.6	137.6	135	2.6	16	1
14.5	5	●	MMS1450X5DB	75.1	104.6	108.6	167.6	165	2.6	16	1
14.6	3	●	MMS1460X3DB	46.5	77.7	78.7	137.7	135	2.7	16	1
14.6	5	●	MMS1460X5DB	75.7	107.7	108.7	167.7	165	2.7	16	1
14.7	3	●	MMS1470X3DB	46.8	77.7	78.7	137.7	135	2.7	16	1
14.7	5	●	MMS1470X5DB	76.2	107.7	108.7	167.7	165	2.7	16	1
14.8	3	●	MMS1480X3DB	47.1	77.7	78.7	137.7	135	2.7	16	1
14.8	5	●	MMS1480X5DB	76.7	107.7	108.7	167.7	165	2.7	16	1
14.9	3	●	MMS1490X3DB	47.4	77.7	78.7	137.7	135	2.7	16	1
14.9	5	●	MMS1490X5DB	77.2	107.7	108.7	167.7	165	2.7	16	1
15.0	3	●	MMS1500X3DB	47.7	77.7	78.7	137.7	135	2.7	16	1
15.0	5	●	MMS1500X5DB	77.7	107.7	108.7	167.7	165	2.7	16	1
15.1	3	●	MMS1510X3DB	48.0	80.7	82.7	141.7	139	2.7	16	1
15.1	5	●	MMS1510X5DB	78.2	111.7	114.7	173.7	171	2.7	16	1
15.2	3	●	MMS1520X3DB	48.4	80.8	82.8	141.8	139	2.8	16	1
15.2	5	●	MMS1520X5DB	78.8	111.8	114.8	173.8	171	2.8	16	1
15.3	3	●	MMS1530X3DB	48.7	80.8	82.8	141.8	139	2.8	16	1
15.3	5	●	MMS1530X5DB	79.3	111.8	114.8	173.8	171	2.8	16	1
15.4	3	●	MMS1540X3DB	49.0	80.8	82.8	141.8	139	2.8	16	1
15.4	5	●	MMS1540X5DB	79.8	111.8	114.8	173.8	171	2.8	16	1
15.5	3	●	MMS1550X3DB	49.3	80.8	82.8	141.8	139	2.8	16	1
15.5	5	●	MMS1550X5DB	80.3	111.8	114.8	173.8	171	2.8	16	1
15.6	3	●	MMS1560X3DB	49.6	82.8	82.8	141.8	139	2.8	16	1
15.6	5	●	MMS1560X5DB	80.8	114.8	114.8	173.8	171	2.8	16	1
15.7	3	●	MMS1570X3DB	50.0	82.9	82.9	141.9	139	2.9	16	1
15.7	5	●	MMS1570X5DB	81.4	114.9	114.9	173.9	171	2.9	16	1
15.8	3	●	MMS1580X3DB	50.3	82.9	82.9	141.9	139	2.9	16	1
15.8	5	●	MMS1580X5DB	81.9	114.9	114.9	173.9	171	2.9	16	1
15.9	3	●	MMS1590X3DB	50.6	82.9	82.9	141.9	139	2.9	16	1
15.9	5	●	MMS1590X5DB	82.4	114.9	114.9	173.9	171	2.9	16	1
16.0	3	●	MMS1600X3DB	50.9	82.9	82.9	141.9	139	2.9	16	1
16.0	5	●	MMS1600X5DB	82.9	114.9	114.9	173.9	171	2.9	16	1
16.1	3	□	MMS1610X3DB	51.2	85.9	88.9	147.9	145	2.9	18	1
16.1	5	□	MMS1610X5DB	83.4	118.9	122.9	181.9	179	2.9	18	1

P

钻头

MMS
 WSTAR钻头

DC	钻削孔深 (mm)	DP7020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
16.2	3	□	MMS1620X3DB	51.5	85.9	88.9	147.9	145	2.9	18	1
16.2	5	□	MMS1620X5DB	83.9	118.9	122.9	181.9	179	2.9	18	1
16.3	3	□	MMS1630X3DB	51.9	86.0	89.0	148.0	145	3.0	18	1
16.3	5	□	MMS1630X5DB	84.5	119.0	123.0	182.0	179	3.0	18	1
16.4	3	□	MMS1640X3DB	52.2	86.0	89.0	148.0	145	3.0	18	1
16.4	5	□	MMS1640X5DB	85.0	119.0	123.0	182.0	179	3.0	18	1
16.5	3	●	MMS1650X3DB	52.5	86.0	89.0	148.0	145	3.0	18	1
16.5	5	●	MMS1650X5DB	85.5	119.0	123.0	182.0	179	3.0	18	1
16.6	3	□	MMS1660X3DB	52.8	88.0	89.0	148.0	145	3.0	18	1
16.6	5	□	MMS1660X5DB	86.0	122.0	123.0	182.0	179	3.0	18	1
16.7	3	□	MMS1670X3DB	53.1	88.0	89.0	148.0	145	3.0	18	1
16.7	5	□	MMS1670X5DB	86.5	122.0	123.0	182.0	179	3.0	18	1
16.8	3	□	MMS1680X3DB	53.5	88.1	89.1	148.1	145	3.1	18	1
16.8	5	□	MMS1680X5DB	87.1	122.1	123.1	182.1	179	3.1	18	1
16.9	3	□	MMS1690X3DB	53.8	88.1	89.1	148.1	145	3.1	18	1
16.9	5	□	MMS1690X5DB	87.6	122.1	123.1	182.1	179	3.1	18	1
17.0	3	●	MMS1700X3DB	54.1	88.1	89.1	148.1	145	3.1	18	1
17.0	5	●	MMS1700X5DB	88.1	122.1	123.1	182.1	179	3.1	18	1
17.1	3	□	MMS1710X3DB	54.4	91.1	93.1	152.1	149	3.1	18	1
17.1	5	□	MMS1710X5DB	88.6	126.1	129.1	188.1	185	3.1	18	1
17.2	3	□	MMS1720X3DB	54.7	91.1	93.1	152.1	149	3.1	18	1
17.2	5	□	MMS1720X5DB	89.1	126.1	129.1	188.1	185	3.1	18	1
17.3	3	□	MMS1730X3DB	55.0	91.1	93.1	152.1	149	3.1	18	1
17.3	5	□	MMS1730X5DB	89.6	126.1	129.1	188.1	185	3.1	18	1
17.4	3	□	MMS1740X3DB	55.4	91.2	93.2	152.2	149	3.2	18	1
17.4	5	□	MMS1740X5DB	90.2	126.2	129.2	188.2	185	3.2	18	1
17.5	3	●	MMS1750X3DB	55.7	91.2	93.2	152.2	149	3.2	18	1
17.5	5	●	MMS1750X5DB	90.7	126.2	129.2	188.2	185	3.2	18	1
17.6	3	□	MMS1760X3DB	56.0	93.2	93.2	152.2	149	3.2	18	1
17.6	5	□	MMS1760X5DB	91.2	129.2	129.2	188.2	185	3.2	18	1
17.7	3	□	MMS1770X3DB	56.3	93.2	93.2	152.2	149	3.2	18	1
17.7	5	□	MMS1770X5DB	91.7	129.2	129.2	188.2	185	3.2	18	1
17.8	3	□	MMS1780X3DB	56.6	93.2	93.2	152.2	149	3.2	18	1
17.8	5	□	MMS1780X5DB	92.2	129.2	129.2	188.2	185	3.2	18	1
17.9	3	□	MMS1790X3DB	57.0	93.3	93.3	152.3	149	3.3	18	1
17.9	5	□	MMS1790X5DB	92.8	129.3	129.3	188.3	185	3.3	18	1
18.0	3	●	MMS1800X3DB	57.3	93.3	93.3	152.3	149	3.3	18	1
18.0	5	●	MMS1800X5DB	93.3	129.3	129.3	188.3	185	3.3	18	1
18.1	3	□	MMS1810X3DB	57.6	96.3	99.3	160.3	157	3.3	20	1
18.1	5	□	MMS1810X5DB	93.8	133.3	137.3	198.3	195	3.3	20	1
18.2	3	□	MMS1820X3DB	57.9	96.3	99.3	160.3	157	3.3	20	1
18.2	5	□	MMS1820X5DB	94.3	133.3	137.3	198.3	195	3.3	20	1
18.3	3	□	MMS1830X3DB	58.2	96.3	99.3	160.3	157	3.3	20	1
18.3	5	□	MMS1830X5DB	94.8	133.3	137.3	198.3	195	3.3	20	1
18.4	3	□	MMS1840X3DB	58.5	96.3	99.3	160.3	157	3.3	20	1
18.4	5	□	MMS1840X5DB	95.3	133.3	137.3	198.3	195	3.3	20	1
18.5	3	●	MMS1850X3DB	58.9	96.4	99.4	160.4	157	3.4	20	1
18.5	5	●	MMS1850X5DB	95.9	133.4	137.4	198.4	195	3.4	20	1

DC	钻削孔深 (mm)	DP7020 (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
18.6	3	□	MMS1860X3DB	59.2	98.4	99.4	160.4	157	3.4	20	1
18.6	5	□	MMS1860X5DB	96.4	136.4	137.4	198.4	195	3.4	20	1
18.7	3	□	MMS1870X3DB	59.5	98.4	99.4	160.4	157	3.4	20	1
18.7	5	□	MMS1870X5DB	96.9	136.4	137.4	198.4	195	3.4	20	1
18.8	3	□	MMS1880X3DB	59.8	98.4	99.4	160.4	157	3.4	20	1
18.8	5	□	MMS1880X5DB	97.4	136.4	137.4	198.4	195	3.4	20	1
18.9	3	□	MMS1890X3DB	60.1	98.4	99.4	160.4	157	3.4	20	1
18.9	5	□	MMS1890X5DB	97.9	136.4	137.4	198.4	195	3.4	20	1
19.0	3	●	MMS1900X3DB	60.5	98.5	99.5	160.5	157	3.5	20	1
19.0	5	●	MMS1900X5DB	98.5	136.5	137.5	198.5	195	3.5	20	1
19.1	3	□	MMS1910X3DB	60.8	101.5	103.5	164.5	161	3.5	20	1
19.1	5	□	MMS1910X5DB	99.0	140.5	143.5	204.5	201	3.5	20	1
19.2	3	□	MMS1920X3DB	61.1	101.5	103.5	164.5	161	3.5	20	1
19.2	5	□	MMS1920X5DB	99.5	140.5	143.5	204.5	201	3.5	20	1
19.3	3	□	MMS1930X3DB	61.4	101.5	103.5	164.5	161	3.5	20	1
19.3	5	□	MMS1930X5DB	100.0	140.5	143.5	204.5	201	3.5	20	1
19.4	3	□	MMS1940X3DB	61.7	101.5	103.5	164.5	161	3.5	20	1
19.4	5	□	MMS1940X5DB	100.5	140.5	143.5	204.5	201	3.5	20	1
19.5	3	●	MMS1950X3DB	62.0	101.5	103.5	164.5	161	3.5	20	1
19.5	5	●	MMS1950X5DB	101.0	140.5	143.5	204.5	201	3.5	20	1
19.6	3	□	MMS1960X3DB	62.4	103.6	103.6	164.6	161	3.6	20	1
19.6	5	□	MMS1960X5DB	101.6	143.6	143.6	204.6	201	3.6	20	1
19.7	3	□	MMS1970X3DB	62.7	103.6	103.6	164.6	161	3.6	20	1
19.7	5	□	MMS1970X5DB	102.1	143.6	143.6	204.6	201	3.6	20	1
19.8	3	□	MMS1980X3DB	63.0	103.6	103.6	164.6	161	3.6	20	1
19.8	5	□	MMS1980X5DB	102.6	143.6	143.6	204.6	201	3.6	20	1
19.9	3	□	MMS1990X3DB	63.3	103.6	103.6	164.6	161	3.6	20	1
19.9	5	□	MMS1990X5DB	103.1	143.6	143.6	204.6	201	3.6	20	1
20.0	3	●	MMS2000X3DB	63.6	103.6	103.6	164.6	161	3.6	20	1
20.0	5	●	MMS2000X5DB	103.6	143.6	143.6	204.6	201	3.6	20	1

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品 □：预订生产品

推荐切削条件

工件材料	奥氏体类不锈钢 (≤HB200)				奥氏体类不锈钢 (>HB200)			
	SUS304、SUS316等				SUS304LN、SUS316LN等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
3.2	80	7900	0.13 (0.08—0.18)	1025	60	5900	0.1 (0.05—0.15)	590
4.0	80	6300	0.15 (0.10—0.20)	945	60	4700	0.12 (0.08—0.18)	560
5.0	80	5000	0.15 (0.10—0.20)	750	60	3800	0.12 (0.08—0.18)	455
6.3	80	4000	0.17 (0.12—0.22)	680	60	3000	0.15 (0.1—0.2)	450
8.0	80	3100	0.19 (0.14—0.24)	585	60	2300	0.17 (0.12—0.22)	390
10.0	60	1900	0.2 (0.15—0.25)	380	50	1500	0.18 (0.13—0.23)	270
12.0	60	1500	0.21 (0.16—0.26)	315	50	1300	0.19 (0.14—0.24)	245
16.0	60	1100	0.22 (0.17—0.27)	240	50	900	0.2 (0.15—0.25)	180
20.0	60	900	0.23 (0.18—0.28)	205	50	700	0.21 (0.16—0.26)	145

工件材料	二相系不锈钢 (≤HB280)				铁素体、析出硬化类不锈钢 (≤HB200)			
	SUS329J1等				SUS410、SUS430等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
3.2	50	4900	0.1 (0.05—0.15)	490	80	7900	0.13 (0.08—0.18)	1025
4.0	50	3900	0.12 (0.08—0.18)	465	80	6300	0.15 (0.10—0.20)	945
5.0	50	3100	0.12 (0.08—0.18)	370	80	5000	0.15 (0.10—0.20)	750
6.3	50	2500	0.15 (0.1—0.2)	375	80	4000	0.17 (0.12—0.22)	680
8.0	50	1900	0.17 (0.12—0.22)	320	80	3100	0.19 (0.14—0.24)	585
10.0	40	1200	0.18 (0.13—0.23)	215	60	1900	0.2 (0.15—0.25)	380
12.0	40	1000	0.19 (0.14—0.24)	190	60	1500	0.21 (0.16—0.26)	315
16.0	40	700	0.2 (0.15—0.25)	140	60	1100	0.22 (0.17—0.27)	240
20.0	40	600	0.21 (0.16—0.26)	125	60	900	0.23 (0.18—0.28)	205

工件材料	铁素体、析出硬化类不锈钢 (>HB200)				析出硬化类不锈钢 (<HB450)			
	SUS431、SUS420J2等				SUS630、SUS631等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
3.2	60	5900	0.1 (0.05—0.15)	590	50	4900	0.1 (0.05—0.15)	490
4.0	60	4700	0.12 (0.08—0.18)	560	50	3900	0.12 (0.08—0.18)	465
5.0	60	3800	0.12 (0.08—0.18)	455	50	3100	0.12 (0.08—0.18)	370
6.3	60	3000	0.15 (0.1—0.2)	450	50	2500	0.15 (0.1—0.2)	375
8.0	60	2300	0.17 (0.12—0.22)	390	50	1900	0.17 (0.12—0.22)	320
10.0	50	1500	0.18 (0.13—0.23)	270	40	1200	0.18 (0.13—0.23)	215
12.0	50	1300	0.19 (0.14—0.24)	245	40	1000	0.19 (0.14—0.24)	190
16.0	50	900	0.2 (0.15—0.25)	180	40	700	0.2 (0.15—0.25)	140
20.0	50	700	0.21 (0.16—0.26)	145	40	600	0.21 (0.16—0.26)	125

注1) 为实现稳定切削,推荐使用内部冷却孔供给高压冷却液。

注2) 推荐使用乳化液型水溶性切削液。

注3) 假设在推荐切削条件良好的加工环境,且具有冷却孔的条件下加工。

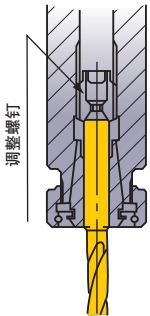
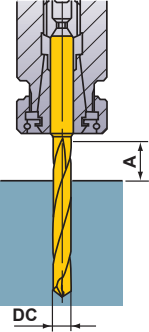
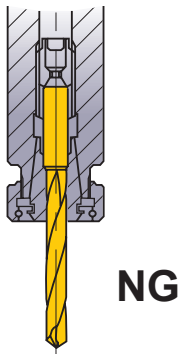
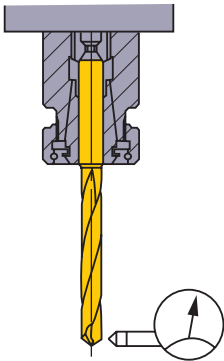
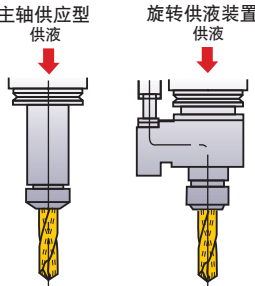
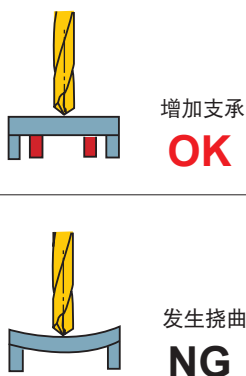
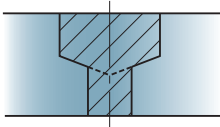
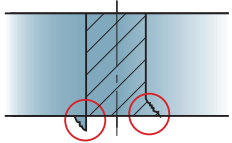
若工件形状、机械刚性、冷却孔种类和喷出状态出现问题,请降低切削条件使用本产品。

注4) 尽管因观看方向不同看到的涂层的色调也许有差异,但性能上没有任何问题。

■ 不锈钢牌号对照表

工件材料		日本	德国		美国
		JIS	W-no.	DIN	AISI/SAE
铁素体、析出硬化类不锈钢	≤200HB	SUS416	1.4005	X12CrS3	416
		SUS410	1.4006	X10Cr13	410
		SUS430	1.4016	X6Cr17	430
		SUS434	1.4113	X6CrMo17	434
		SUS430LX	1.4510	X6CrTi17	430Ti
		—	1.4512	X6CrTi12	409
	>200HB	SUS420J1	1.4021	X20Cr13	420
		SUS431	1.4057	X20CrNi17-2	431
		SUS420J2	1.4028	X30Cr13	420
		SUS440C	1.4125	X10CrMo17	440C
析出硬化类不锈钢	<450HB	SUS630	1.4542	X5CrNiCuNb16 4	630 (17-4PH)
		—	1.4545	—	S15500 (15-5PH)
		SUS631	1.4568	X7CrNiAl17 7	631 (17-7PH)
奥氏体类不锈钢	≤200HB	SUS304	1.4301	X5CrNi18 10	304
		SUS305	1.4303	X5CrNi8-12	305
		SUS303	1.4305	X12CrNiS18-9	303
		SUS304L	1.4307	X2CrNi19-11	304L
		SUS316	1.4401	X5CrNiMo17 12 2	316
	>200HB	SUS304LN	1.4311	X2CrNiN18 10	304LN
		SUS316L	1.4404	X2CrNiMo17 12 2	316L
		SUS316LN	1.4406	X2CrNiMoN17 12 2	316LN
		SUS316L	1.4435	X2CrNiMo18 14 3	—
		SUS317L	1.4438	X2CrNiMo18 15 4	317L
		—	1.4529	X1NiCrMoCuN25 20 7	N08926
		SUS321	1.4541	X6CrNiTi18-10	321
		SUS347	1.4550	X6CrNiNb18-10	347
		SUS316Ti	1.4571	X6CrNiMoTi17 12 2	316Ti
二相系不锈钢	≤280HB	—	1.4362	X2CrNiN23 4	—
		SCS14A	1.4410	X2CrNiMoN25 7 4	S32750
		SUS329J1	1.4460	X3CrNiMoN27 5 2	329
		SUS329J3L	1.4462	X2CrNiMoN22 5 3	S31803

■ MMS....X3DB, MMS....X5DB 的高级使用方法

钻头装夹  使用推力轴承型的弹簧夹头可确保夹紧。	确定装夹钻头长度的方法  图中的A尺寸要确保DCx1.5以上。	安装注意事项  NG 不能把钻头的沟槽部位夹住。	安装时的振摆  振摆应在0.03mm以内。
供液方法 (MMS)  切削液工作压力0.5MPa-7MPa	切削液的管理 <使用MMS钻头时> (1)供液系统必须安装切削液过滤网。细小的切屑颗粒与杂物会附在冷却孔内堵塞冷却孔。特别是小直径钻头,应尽量选用细目滤网。 (2)切削液长期使用,液中的细小杂物会附在冷却孔内,导致供液不畅,应及时更换。	薄板钻削  增加支承 OK 发生挠曲 NG	断续钻削 可以加工 OK ①断续面处应降低进给量。 前加工必要 ①先由立铣刀镗孔。
阶梯孔钻削  ①可分两个工序钻削。 ②先钻削大直径部分。 ※本公司也制造带总孔或倒角刃的复合钻头。	将钻通时出现毛刺、塌陷  ①将钻通时应降低进给量。 ②钻头肩部处理成倒角。 ③改变钻头顶角。		

钻孔 [整体硬质合金钻头]

MHS
WSTAR钻头

- 模具加工用整体钻头
- 高压曲强度与特殊的双重棱边
- 可进行HRC35至HRC55的高硬度钢的一次进给加工，并实现长寿命



P **M** **K** **N** **S** **H**
钢 不锈钢 耐热合金 高硬度钢

内冷却

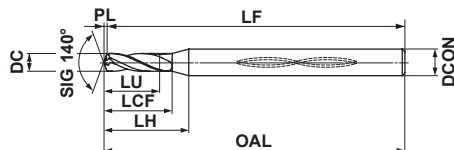


图1

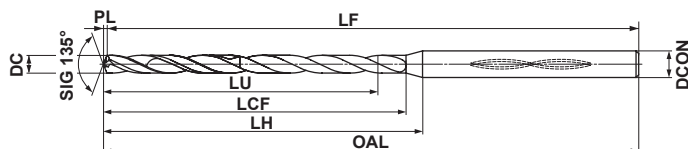


图2

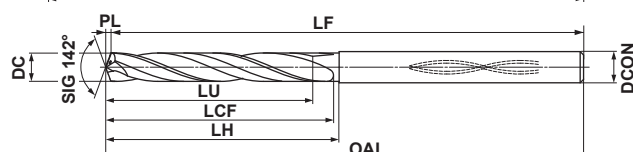


图3

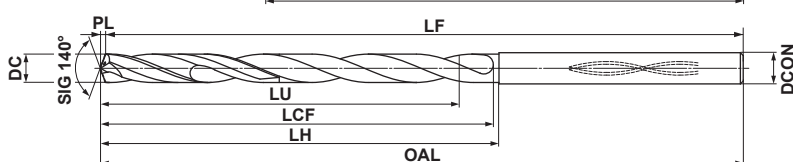


图4

DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 12
+0.010 -0.002	+0.010 -0.002	+0.010 -0.005	+0.010 -0.008
DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 12
0 -0.006	0 -0.008	0 -0.009	0 -0.011

注1) MHS型全部产品均可用于热缩式刀柄。

注2) 各直径中的最短型产品用于导孔加工。

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
0.95	3	●	MHS0095L006B	3.0	6.2	10.0	60.2	60	0.17	3	1
0.95	6	●	MHS0095L009B	5.9	9.2	13.0	60.2	60	0.17	3	2
0.95	13	●	MHS0095L015B	12.5	15.2	19.0	60.2	60	0.17	3	2
0.95	23	●	MHS0095L025B	22.0	25.2	29.0	60.2	60	0.17	3	2
0.95	30	●	MHS0095L035B	28.7	35.2	39.0	80.2	80	0.17	3	2
1.00	3	●	MHS0100L006B	3.2	6.2	9.9	60.2	60	0.2	3	1
1.00	6	●	MHS0100L009B	6.2	9.2	12.9	60.2	60	0.2	3	2
1.00	12	●	MHS0100L015B	12.2	15.2	18.9	60.2	60	0.2	3	2
1.00	22	●	MHS0100L025B	22.2	25.2	28.9	60.2	60	0.2	3	2
1.00	30	●	MHS0100L035B	30.2	35.2	38.9	80.2	80	0.2	3	2
1.10	2	●	MHS0110L006B	2.4	6.2	9.7	60.2	60	0.2	3	1
1.10	5	●	MHS0110L009B	5.7	9.2	12.7	60.2	60	0.2	3	2
1.10	11	●	MHS0110L015B	12.3	15.2	18.7	60.2	60	0.2	3	2
1.10	20	●	MHS0110L025B	22.2	25.2	28.7	60.2	60	0.2	3	2
1.10	29	●	MHS0110L035B	32.1	35.2	38.7	80.2	80	0.2	3	2
1.20	2	●	MHS0120L006B	2.6	6.2	9.6	60.2	60	0.2	3	1
1.20	5	●	MHS0120L009B	6.2	9.2	12.6	60.2	60	0.2	3	2
1.20	10	●	MHS0120L015B	12.2	15.2	18.6	60.2	60	0.2	3	2
1.20	18	●	MHS0120L025B	21.8	25.2	28.6	60.2	60	0.2	3	2
1.20	26	●	MHS0120L035B	31.4	35.2	38.6	80.2	80	0.2	3	2
1.30	2	●	MHS0130L007B	2.8	7.2	10.4	60.2	60	0.2	3	1
1.30	5	●	MHS0130L011B	6.8	11.3	14.5	60.3	60	0.3	3	2
1.30	12	●	MHS0130L020B	15.9	20.3	23.5	60.3	60	0.3	3	2
1.30	20	●	MHS0130L030B	26.3	30.3	33.5	80.3	80	0.3	3	2

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
1.30	30	●	MHS0130L045B	39.3	45.3	48.5	80.3	80	0.3	3	2
1.40	2	●	MHS0140L007B	3.1	7.3	10.3	60.3	60	0.3	3	1
1.40	5	●	MHS0140L011B	7.3	11.3	14.3	60.3	60	0.3	3	2
1.40	11	●	MHS0140L020B	15.7	20.3	23.3	60.3	60	0.3	3	2
1.40	18	●	MHS0140L030B	25.5	30.3	33.3	80.3	80	0.3	3	2
1.40	29	●	MHS0140L045B	40.9	45.3	48.3	80.3	80	0.3	3	2
1.45	3	●	MHS0145L008B	4.7	8.3	11.2	60.3	60	0.3	3	1
1.45	6	●	MHS0145L013B	9.0	13.3	16.2	60.3	60	0.3	3	2
1.45	11	●	MHS0145L020B	16.3	20.3	23.2	60.3	60	0.3	3	2
1.45	21	●	MHS0145L035B	30.8	35.3	38.2	80.3	80	0.3	3	2
1.45	30	●	MHS0145L055B	43.8	55.3	58.2	100.3	100	0.3	3	2
1.50	2	●	MHS0150L008B	3.3	8.3	11.1	60.3	60	0.3	3	1
1.50	6	●	MHS0150L013B	9.3	13.3	16.1	60.3	60	0.3	3	2
1.50	10	●	MHS0150L020B	15.3	20.3	23.1	60.3	60	0.3	3	2
1.50	20	●	MHS0150L035B	30.3	35.3	38.1	80.3	80	0.3	3	2
1.50	30	●	MHS0150L055B	45.3	55.3	58.1	100.3	100	0.3	3	2
1.60	2	●	MHS0160L008B	3.5	8.3	10.9	60.3	60	0.3	3	1
1.60	5	●	MHS0160L013B	8.3	13.3	15.9	60.3	60	0.3	3	2
1.60	10	●	MHS0160L020B	16.3	20.3	22.9	60.3	60	0.3	3	2
1.60	19	●	MHS0160L035B	30.7	35.3	37.9	80.3	80	0.3	3	2
1.60	30	●	MHS0160L055B	48.3	55.3	57.9	100.3	100	0.3	3	2
1.70	2	●	MHS0170L008B	3.7	8.3	10.7	60.3	60	0.3	3	1
1.70	5	●	MHS0170L013B	8.9	13.4	15.8	60.4	60	0.4	3	2
1.70	9	●	MHS0170L020B	15.7	20.4	22.8	60.4	60	0.4	3	2

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●: 标准库存品 □: 预订生产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DON	
1.70	18	●	MHS0170L035B	31.0	35.4	37.8	80.4	80	0.4	3	2
1.70	29	●	MHS0170L055B	49.7	55.4	57.8	100.4	100	0.4	3	2
1.80	3	●	MHS0180L010B	5.7	10.3	12.5	60.3	60	0.3	3	1
1.80	5	●	MHS0180L015B	9.4	15.4	17.6	60.4	60	0.4	3	2
1.80	11	●	MHS0180L025B	20.2	25.4	27.6	60.4	60	0.4	3	2
1.80	22	●	MHS0180L045B	40.0	45.4	47.6	80.4	80	0.4	3	2
1.80	30	●	MHS0180L065B	54.4	65.4	67.6	100.4	100	0.4	3	2
1.90	2	●	MHS0190L010B	4.1	10.3	12.4	60.3	60	0.3	3	1
1.90	5	●	MHS0190L015B	9.9	15.4	17.5	60.4	60	0.4	3	2
1.90	10	●	MHS0190L025B	19.4	25.4	27.5	60.4	60	0.4	3	2
1.90	21	●	MHS0190L045B	40.3	45.4	47.5	80.4	80	0.4	3	2
1.90	30	●	MHS0190L065B	57.4	65.4	67.5	100.4	100	0.4	3	2
1.95	2	●	MHS0195L010B	4.3	10.4	12.4	60.4	60	0.4	3	1
1.95	5	●	MHS0195L015B	10.2	15.4	17.4	60.4	60	0.4	3	2
1.95	10	●	MHS0195L025B	19.9	25.4	27.4	60.4	60	0.4	3	2
1.95	20	●	MHS0195L045B	39.4	45.4	47.4	80.4	80	0.4	3	2
1.95	30	●	MHS0195L065B	58.9	65.4	67.4	100.4	100	0.4	3	2
2.00	2	●	MHS0200L010B	4.4	10.4	12.3	60.4	60	0.4	3	1
2.00	5	●	MHS0200L015B	10.4	15.4	17.3	60.4	60	0.4	3	2
2.00	9	●	MHS0200L025B	18.4	25.4	27.3	60.4	60	0.4	3	2
2.00	20	●	MHS0200L045B	40.4	45.4	47.3	80.4	80	0.4	3	2
2.00	30	●	MHS0200L065B	60.4	65.4	67.3	100.4	100	0.4	3	2
2.10	3	●	MHS0210L012B	6.7	12.4	14.1	60.4	60	0.4	3	1
2.10	7	●	MHS0210L020B	15.1	20.4	22.1	60.4	60	0.4	3	2
2.10	11	●	MHS0210L030B	23.5	30.4	32.1	80.4	80	0.4	3	2
2.10	23	●	MHS0210L055B	48.7	55.4	57.1	100.4	100	0.4	3	2
2.10	30	●	MHS0210L075B	63.4	75.4	77.1	120.4	120	0.4	3	2
2.20	2	●	MHS0220L012B	4.8	12.4	13.9	60.4	60	0.4	3	1
2.20	6	●	MHS0220L020B	13.7	20.5	22.0	60.5	60	0.5	3	2
2.20	11	●	MHS0220L030B	24.7	30.5	32.0	80.5	80	0.5	3	2
2.20	22	●	MHS0220L055B	48.9	55.5	57.0	100.5	100	0.5	3	2
2.20	30	●	MHS0220L075B	66.5	75.5	77.0	120.5	120	0.5	3	2
2.30	2	●	MHS0230L012B	5.0	12.4	13.7	60.4	60	0.4	3	1
2.30	6	●	MHS0230L020B	14.3	20.5	21.8	60.5	60	0.5	3	2
2.30	10	●	MHS0230L030B	23.5	30.5	31.8	80.5	80	0.5	3	2
2.30	21	●	MHS0230L055B	48.8	55.5	56.8	100.5	100	0.5	3	2
2.30	30	●	MHS0230L075B	69.5	75.5	76.8	120.5	120	0.5	3	2
2.40	2	●	MHS0240L012B	5.2	12.4	13.5	60.4	60	0.4	3	1
2.40	5	●	MHS0240L020B	12.5	20.5	21.6	60.5	60	0.5	3	2
2.40	9	●	MHS0240L030B	22.1	30.5	31.6	80.5	80	0.5	3	2
2.40	20	●	MHS0240L055B	48.5	55.5	56.6	100.5	100	0.5	3	2
2.40	28	●	MHS0240L075B	67.7	75.5	76.6	120.5	120	0.5	3	2
2.45	2	●	MHS0245L013B	5.3	13.4	14.4	70.4	70	0.4	4	1
2.45	5	●	MHS0245L020B	12.8	20.5	21.5	70.5	70	0.5	4	2
2.45	11	●	MHS0245L035B	27.5	35.5	36.5	90.5	90	0.5	4	2
2.45	24	●	MHS0245L065B	59.3	65.5	66.5	110.5	110	0.5	4	2
2.45	30	●	MHS0245L090B	74.0	90.5	91.5	140.5	140	0.5	4	2
2.50	2	●	MHS0250L013B	5.5	13.5	16.3	70.5	70	0.5	4	1

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DON	
2.50	5	●	MHS0250L020B	13.0	20.5	23.3	70.5	70	0.5	4	2
2.50	11	●	MHS0250L035B	28.0	35.5	38.3	90.5	90	0.5	4	2
2.50	23	●	MHS0250L065B	58.0	65.5	68.3	110.5	110	0.5	4	2
2.50	30	●	MHS0250L090B	75.5	90.5	93.3	140.5	140	0.5	4	2
2.60	2	●	MHS0260L013B	5.7	13.5	16.1	70.5	70	0.5	4	1
2.60	5	●	MHS0260L020B	13.5	20.5	23.1	70.5	70	0.5	4	2
2.60	10	●	MHS0260L035B	26.5	35.5	38.1	90.5	90	0.5	4	2
2.60	22	●	MHS0260L065B	57.7	65.5	68.1	110.5	110	0.5	4	2
2.60	30	●	MHS0260L090B	78.5	90.5	93.1	140.5	140	0.5	4	2
2.70	2	●	MHS0270L013B	5.9	13.5	15.9	70.5	70	0.5	4	1
2.70	4	●	MHS0270L020B	11.4	20.6	23.0	70.6	70	0.6	4	2
2.70	10	●	MHS0270L035B	27.6	35.6	38.0	90.6	90	0.6	4	2
2.70	21	●	MHS0270L065B	57.3	65.6	68.0	110.6	110	0.6	4	2
2.70	30	●	MHS0270L090B	81.6	90.6	93.0	140.6	140	0.6	4	2
2.80	2	●	MHS0280L014B	6.1	14.5	16.7	70.5	70	0.5	4	1
2.80	4	●	MHS0280L020B	11.8	20.6	22.8	70.6	70	0.6	4	2
2.80	9	●	MHS0280L035B	25.8	35.6	37.8	90.6	90	0.6	4	2
2.80	20	●	MHS0280L065B	56.6	65.6	67.8	110.6	110	0.6	4	2
2.80	29	●	MHS0280L090B	81.8	90.6	92.8	140.6	140	0.6	4	2
2.90	2	●	MHS0290L014B	6.3	14.5	16.6	70.5	70	0.5	4	1
2.90	4	●	MHS0290L020B	12.2	20.6	22.7	70.6	70	0.6	4	2
2.90	9	●	MHS0290L035B	26.7	35.6	37.7	90.6	90	0.6	4	2
2.90	19	●	MHS0290L065B	55.7	65.6	67.7	110.6	110	0.6	4	2
2.90	28	●	MHS0290L090B	81.8	90.6	92.7	140.6	140	0.6	4	2
2.95	2	●	MHS0295L014B	6.4	14.5	16.5	70.5	70	0.5	4	1
2.95	4	●	MHS0295L020B	12.4	20.6	22.6	70.6	70	0.6	4	2
2.95	9	●	MHS0295L035B	27.2	35.6	37.6	90.6	90	0.6	4	2
2.95	19	●	MHS0295L065B	56.7	65.6	67.6	110.6	110	0.6	4	2
2.95	28	●	MHS0295L090B	83.2	90.6	92.6	140.6	140	0.6	4	2
3.0	4	●	MHS0300L020B	12.5	19.5	20.5	70.5	70	0.5	4	3
3.0	10	●	MHS0300L040B	30.5	39.5	40.5	90.5	90	0.5	4	4
3.0	17	●	MHS0300L060B	51.5	59.5	60.5	110.5	110	0.5	4	4
3.0	27	●	MHS0300L090B	81.5	89.5	90.5	140.5	140	0.5	4	4
3.1	4	□	MHS0310L020B	12.9	20.0	20.5	70.5	70	0.5	4	3
3.1	10	□	MHS0310L040B	31.6	40.1	40.6	90.6	90	0.6	4	4
3.1	17	□	MHS0310L060B	53.3	60.1	60.6	110.6	110	0.6	4	4
3.1	26	□	MHS0310L090B	81.2	90.1	90.6	140.6	140	0.6	4	4
3.2	4	□	MHS0320L020B	13.4	20.1	20.6	70.6	70	0.6	4	3
3.2	10	□	MHS0320L040B	32.6	40.1	40.6	90.6	90	0.6	4	4
3.2	16	□	MHS0320L060B	51.8	60.1	60.6	110.6	110	0.6	4	4
3.2	25	□	MHS0320L090B	80.6	90.1	90.6	140.6	140	0.6	4	4
3.3	3	□	MHS0330L020B	10.5	20.1	20.6	70.6	70	0.6	4	3
3.3	9	□	MHS0330L040B	30.3	40.1	40.6	90.6	90	0.6	4	4
3.3	16	□	MHS0330L060B	53.4	60.1	60.6	110.6	110	0.6	4	4
3.3	25	□	MHS0330L090B	83.1	90.1	90.6	140.6	140	0.6	4	4
3.4	3	□	MHS0340L020B	10.8	20.1	20.6	70.6	70	0.6	4	3
3.4	9	□	MHS0340L040B	31.2	40.1	40.6	90.6	90	0.6	4	4
3.4	15	□	MHS0340L060B	51.6	60.1	60.6	110.6	110	0.6	4	4

P

钻头

MHS
WSTAR钻头

硬质合金

DC	钻削孔深 (mm)(L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.4	24	□	MHS0340L090B	82.2	90.1	90.6	140.6	140	0.6	4	4
3.5	3	●	MHS0350L020B	11.1	20.1	20.6	70.6	70	0.6	4	3
3.5	9	●	MHS0350L040B	32.1	40.1	40.6	90.6	90	0.6	4	4
3.5	14	●	MHS0350L060B	49.6	60.1	60.6	110.6	110	0.6	4	4
3.5	23	●	MHS0350L090B	81.1	90.1	90.6	140.6	140	0.6	4	4
3.6	3	□	MHS0360L020B	11.4	20.6	20.6	70.6	70	0.6	4	3
3.6	9	□	MHS0360L040B	33.1	40.7	40.7	90.7	90	0.7	4	4
3.6	14	□	MHS0360L060B	51.1	60.7	60.7	110.7	110	0.7	4	4
3.6	22	□	MHS0360L090B	79.9	90.7	90.7	140.7	140	0.7	4	4
3.6	30	□	MHS0360L120B	108.7	120.7	120.7	170.7	170	0.7	4	4
3.7	3	□	MHS0370L020B	11.7	20.6	20.6	70.6	70	0.6	4	3
3.7	8	□	MHS0370L040B	30.3	40.7	40.7	90.7	90	0.7	4	4
3.7	14	□	MHS0370L060B	52.5	60.7	60.7	110.7	110	0.7	4	4
3.7	22	□	MHS0370L090B	82.1	90.7	90.7	140.7	140	0.7	4	4
3.7	30	□	MHS0370L120B	111.7	120.7	120.7	170.7	170	0.7	4	4
3.8	3	●	MHS0380L020B	12.1	20.7	20.7	70.7	70	0.7	4	3
3.8	8	●	MHS0380L040B	31.1	40.7	40.7	90.7	90	0.7	4	4
3.8	13	●	MHS0380L060B	50.1	60.7	60.7	110.7	110	0.7	4	4
3.8	21	●	MHS0380L090B	80.5	90.7	90.7	140.7	140	0.7	4	4
3.8	29	●	MHS0380L120B	110.9	120.7	120.7	170.7	170	0.7	4	4
3.9	3	□	MHS0390L020B	12.4	20.7	20.7	70.7	70	0.7	4	3
3.9	8	□	MHS0390L040B	31.9	40.7	40.7	90.7	90	0.7	4	4
3.9	13	□	MHS0390L060B	51.4	60.7	60.7	110.7	110	0.7	4	4
3.9	21	□	MHS0390L090B	82.6	90.7	90.7	140.7	140	0.7	4	4
3.9	28	□	MHS0390L120B	109.9	120.7	120.7	170.7	170	0.7	4	4
4.0	2	●	MHS0400L020B	8.7	20.7	20.7	70.7	70	0.7	4	3
4.0	7	●	MHS0400L040B	28.7	40.7	40.7	90.7	90	0.7	4	4
4.0	12	●	MHS0400L060B	48.7	60.7	60.7	110.7	110	0.7	4	4
4.0	20	●	MHS0400L090B	80.7	90.7	90.7	140.7	140	0.7	4	4
4.0	27	●	MHS0400L120B	108.7	120.7	120.7	170.7	170	0.7	4	4
4.1	2	□	MHS0410L020B	8.9	19.2	20.7	70.7	70	0.7	6	3
4.1	7	□	MHS0410L040B	29.4	39.2	40.7	90.7	90	0.7	6	4
4.1	12	□	MHS0410L060B	49.9	59.2	60.7	110.7	110	0.7	6	4
4.1	19	□	MHS0410L090B	78.6	89.2	90.7	140.7	140	0.7	6	4
4.1	26	□	MHS0410L120B	107.3	119.2	120.7	170.7	170	0.7	6	4
4.2	2	□	MHS0420L020B	9.1	19.2	20.7	70.7	70	0.7	6	3
4.2	7	□	MHS0420L040B	30.2	39.3	40.8	90.8	90	0.8	6	4
4.2	11	□	MHS0420L060B	47.0	59.3	60.8	110.8	110	0.8	6	4
4.2	19	□	MHS0420L090B	80.6	89.3	90.8	140.8	140	0.8	6	4
4.2	26	□	MHS0420L120B	110.0	119.3	120.8	170.8	170	0.8	6	4
4.3	2	□	MHS0430L020B	9.3	19.2	20.7	70.7	70	0.7	6	3
4.3	6	□	MHS0430L040B	26.6	39.3	40.8	90.8	90	0.8	6	4
4.3	11	□	MHS0430L060B	48.1	59.3	60.8	110.8	110	0.8	6	4
4.3	18	□	MHS0430L090B	78.2	89.3	90.8	140.8	140	0.8	6	4
4.3	25	□	MHS0430L120B	108.3	119.3	120.8	170.8	170	0.8	6	4
4.4	2	□	MHS0440L020B	9.6	19.3	20.8	70.8	70	0.8	6	3
4.4	6	□	MHS0440L040B	27.2	39.3	40.8	90.8	90	0.8	6	4
4.4	11	□	MHS0440L060B	49.2	59.3	60.8	110.8	110	0.8	6	4

DC	钻削孔深 (mm)(L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.4	18	□	MHS0440L090B	80.0	89.3	90.8	140.8	140	0.8	6	4
4.4	24	□	MHS0440L120B	106.4	119.3	120.8	170.8	170	0.8	6	4
4.5	2	●	MHS0450L020B	9.8	19.3	20.8	70.8	70	0.8	6	3
4.5	6	●	MHS0450L040B	27.8	39.3	40.8	90.8	90	0.8	6	4
4.5	10	●	MHS0450L060B	45.8	59.3	60.8	110.8	110	0.8	6	4
4.5	17	●	MHS0450L090B	77.3	89.3	90.8	140.8	140	0.8	6	4
4.5	24	●	MHS0450L120B	108.8	119.3	120.8	170.8	170	0.8	6	4
4.6	2	□	MHS0460L020B	10.0	19.8	20.8	70.8	70	0.8	6	3
4.6	6	□	MHS0460L040B	28.4	39.8	40.8	90.8	90	0.8	6	4
4.6	10	□	MHS0460L060B	46.8	59.8	60.8	110.8	110	0.8	6	4
4.6	17	□	MHS0460L090B	79.0	89.8	90.8	140.8	140	0.8	6	4
4.6	23	□	MHS0460L120B	106.6	119.8	120.8	170.8	170	0.8	6	4
4.6	30	□	MHS0460L150B	138.8	149.8	150.8	200.8	200	0.8	6	4
4.7	2	□	MHS0470L020B	10.2	19.8	20.8	70.8	70	0.8	6	3
4.7	6	□	MHS0470L040B	29.1	39.9	40.9	90.9	90	0.9	6	4
4.7	10	□	MHS0470L060B	47.9	59.9	60.9	110.9	110	0.9	6	4
4.7	16	□	MHS0470L090B	76.1	89.9	90.9	140.9	140	0.9	6	4
4.7	23	□	MHS0470L120B	109.0	119.9	120.9	170.9	170	0.9	6	4
4.7	29	□	MHS0470L150B	137.2	149.9	150.9	200.9	200	0.9	6	4
4.8	1	●	MHS0480L020B	5.6	19.8	20.8	70.8	70	0.8	6	3
4.8	6	●	MHS0480L040B	29.7	39.9	40.9	90.9	90	0.9	6	4
4.8	10	●	MHS0480L060B	48.9	59.9	60.9	110.9	110	0.9	6	4
4.8	16	●	MHS0480L090B	77.7	89.9	90.9	140.9	140	0.9	6	4
4.8	22	●	MHS0480L120B	106.5	119.9	120.9	170.9	170	0.9	6	4
4.8	29	●	MHS0480L150B	140.1	149.9	150.9	200.9	200	0.9	6	4
4.9	1	□	MHS0490L020B	5.7	19.8	20.8	70.8	70	0.8	6	3
4.9	5	□	MHS0490L040B	25.4	39.9	40.9	90.9	90	0.9	6	4
4.9	10	□	MHS0490L060B	49.9	59.9	60.9	110.9	110	0.9	6	4
4.9	16	□	MHS0490L090B	79.3	89.9	90.9	140.9	140	0.9	6	4
4.9	22	□	MHS0490L120B	108.7	119.9	120.9	170.9	170	0.9	6	4
4.9	28	□	MHS0490L150B	138.1	149.9	150.9	200.9	200	0.9	6	4
5.0	1	●	MHS0500L020B	5.9	19.9	20.9	70.9	70	0.9	6	3
5.0	5	●	MHS0500L040B	25.9	39.9	40.9	90.9	90	0.9	6	4
5.0	9	●	MHS0500L060B	45.9	59.9	60.9	110.9	110	0.9	6	4
5.0	15	●	MHS0500L090B	75.9	89.9	90.9	140.9	140	0.9	6	4
5.0	21	●	MHS0500L120B	105.9	119.9	120.9	170.9	170	0.9	6	4
5.0	27	●	MHS0500L150B	135.9	149.9	150.9	200.9	200	0.9	6	4
5.1	3	□	MHS0510L030B	16.2	30.4	30.9	80.9	80	0.9	6	3
5.1	9	□	MHS0510L060B	46.8	60.4	60.9	110.9	110	0.9	6	4
5.1	15	□	MHS0510L090B	77.4	90.4	90.9	140.9	140	0.9	6	4
5.1	21	□	MHS0510L120B	108.0	120.4	120.9	170.9	170	0.9	6	4
5.1	27	□	MHS0510L150B	138.6	150.4	150.9	200.9	200	0.9	6	4
5.2	3	□	MHS0520L030B	16.5	30.4	30.9	80.9	80	0.9	6	3
5.2	9	□	MHS0520L060B	47.7	60.4	60.9	110.9	110	0.9	6	4
5.2	15	□	MHS0520L090B	78.9	90.4	90.9	140.9	140	0.9	6	4
5.2	20	□	MHS0520L120B	104.9	120.4	120.9	170.9	170	0.9	6	4
5.2	26	□	MHS0520L150B	136.1	150.4	150.9	200.9	200	0.9	6	4
5.3	3	□	MHS0530L030B	16.8	30.4	30.9	80.9	80	0.9	6	3

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
5.3	9	□	MHS0530L060B	48.7	60.5	61.0	111.0	110	1.0	6	4
5.3	14	□	MHS0530L090B	75.2	90.5	91.0	141.0	140	1.0	6	4
5.3	20	□	MHS0530L120B	107.0	120.5	121.0	171.0	170	1.0	6	4
5.3	26	□	MHS0530L150B	138.8	150.5	151.0	201.0	200	1.0	6	4
5.4	3	□	MHS0540L030B	17.1	30.4	30.9	80.9	80	0.9	6	3
5.4	9	□	MHS0540L060B	49.6	60.5	61.0	111.0	110	1.0	6	4
5.4	14	□	MHS0540L090B	76.6	90.5	91.0	141.0	140	1.0	6	4
5.4	20	□	MHS0540L120B	109.0	120.5	121.0	171.0	170	1.0	6	4
5.4	25	□	MHS0540L150B	136.0	150.5	151.0	201.0	200	1.0	6	4
5.5	3	●	MHS0550L030B	17.4	30.4	30.9	80.9	80	0.9	6	3
5.5	8	●	MHS0550L060B	45.0	60.5	61.0	111.0	110	1.0	6	4
5.5	14	●	MHS0550L090B	78.0	90.5	91.0	141.0	140	1.0	6	4
5.5	19	●	MHS0550L120B	105.5	120.5	121.0	171.0	170	1.0	6	4
5.5	25	●	MHS0550L150B	138.5	150.5	151.0	201.0	200	1.0	6	4
5.6	3	□	MHS0560L030B	17.8	31.0	31.0	81.0	80	1.0	6	3
5.6	8	□	MHS0560L060B	45.8	61.0	61.0	111.0	110	1.0	6	4
5.6	14	□	MHS0560L090B	79.4	91.0	91.0	141.0	140	1.0	6	4
5.6	19	□	MHS0560L120B	107.4	121.0	121.0	171.0	170	1.0	6	4
5.6	24	□	MHS0560L150B	135.4	151.0	151.0	201.0	200	1.0	6	4
5.7	3	□	MHS0570L030B	18.1	31.0	31.0	81.0	80	1.0	6	3
5.7	8	□	MHS0570L060B	46.6	61.0	61.0	111.0	110	1.0	6	4
5.7	13	□	MHS0570L090B	75.1	91.0	91.0	141.0	140	1.0	6	4
5.7	19	□	MHS0570L120B	109.3	121.0	121.0	171.0	170	1.0	6	4
5.7	24	□	MHS0570L150B	137.8	151.0	151.0	201.0	200	1.0	6	4
5.8	3	●	MHS0580L030B	18.4	31.0	31.0	81.0	80	1.0	6	3
5.8	8	●	MHS0580L060B	47.5	61.1	61.1	111.1	110	1.1	6	4
5.8	13	●	MHS0580L090B	76.5	91.1	91.1	141.1	140	1.1	6	4
5.8	18	●	MHS0580L120B	105.5	121.1	121.1	171.1	170	1.1	6	4
5.8	23	●	MHS0580L150B	134.5	151.1	151.1	201.1	200	1.1	6	4
5.9	3	□	MHS0590L030B	18.7	31.0	31.0	81.0	80	1.0	6	3
5.9	8	□	MHS0590L060B	48.3	61.1	61.1	111.1	110	1.1	6	4
5.9	13	□	MHS0590L090B	77.8	91.1	91.1	141.1	140	1.1	6	4
5.9	18	□	MHS0590L120B	107.3	121.1	121.1	171.1	170	1.1	6	4
5.9	23	□	MHS0590L150B	136.8	151.1	151.1	201.1	200	1.1	6	4
6.0	2	●	MHS0600L030B	13.0	31.0	31.0	81.0	80	1.0	6	3
6.0	7	●	MHS0600L060B	43.1	61.1	61.1	111.1	110	1.1	6	4
6.0	12	●	MHS0600L090B	73.1	91.1	91.1	141.1	140	1.1	6	4
6.0	17	●	MHS0600L120B	103.1	121.1	121.1	171.1	170	1.1	6	4
6.0	22	●	MHS0600L150B	133.1	151.1	151.1	201.1	200	1.1	6	4
6.1	2	□	MHS0610L030B	13.3	29.6	31.1	81.1	80	1.1	8	3
6.1	7	□	MHS0610L060B	43.8	59.6	61.1	111.1	110	1.1	8	4
6.1	12	□	MHS0610L090B	74.3	89.6	91.1	141.1	140	1.1	8	4
6.1	17	□	MHS0610L120B	104.8	119.6	121.1	171.1	170	1.1	8	4
6.1	22	□	MHS0610L150B	135.3	149.6	151.1	201.1	200	1.1	8	4
6.2	2	□	MHS0620L030B	13.5	29.6	31.1	81.1	80	1.1	8	3
6.2	7	□	MHS0620L060B	44.5	59.6	61.1	111.1	110	1.1	8	4
6.2	12	□	MHS0620L090B	75.5	89.6	91.1	141.1	140	1.1	8	4
6.2	17	□	MHS0620L120B	106.5	119.6	121.1	171.1	170	1.1	8	4

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.2	21	□	MHS0620L150B	131.3	149.6	151.1	201.1	200	1.1	8	4
6.3	2	□	MHS0630L030B	13.7	29.6	31.1	81.1	80	1.1	8	3
6.3	7	□	MHS0630L060B	45.2	59.6	61.1	111.1	110	1.1	8	4
6.3	12	□	MHS0630L090B	76.7	89.6	91.1	141.1	140	1.1	8	4
6.3	16	□	MHS0630L120B	101.9	119.6	121.1	171.1	170	1.1	8	4
6.3	21	□	MHS0630L150B	133.4	149.6	151.1	201.1	200	1.1	8	4
6.4	2	□	MHS0640L030B	13.9	29.6	31.1	81.1	80	1.1	8	3
6.4	7	□	MHS0640L060B	46.0	59.7	61.2	111.2	110	1.2	8	4
6.4	11	□	MHS0640L090B	71.6	89.7	91.2	141.2	140	1.2	8	4
6.4	16	□	MHS0640L120B	103.6	119.7	121.2	171.2	170	1.2	8	4
6.4	21	□	MHS0640L150B	135.6	149.7	151.2	201.2	200	1.2	8	4
6.5	2	●	MHS0650L030B	14.1	29.6	31.1	81.1	80	1.1	8	3
6.5	6	●	MHS0650L060B	40.2	59.7	61.2	111.2	110	1.2	8	4
6.5	11	●	MHS0650L090B	72.7	89.7	91.2	141.2	140	1.2	8	4
6.5	16	●	MHS0650L120B	105.2	119.7	121.2	171.2	170	1.2	8	4
6.5	20	●	MHS0650L150B	131.2	149.7	151.2	201.2	200	1.2	8	4
6.6	2	□	MHS0660L030B	14.3	30.1	31.1	81.1	80	1.1	8	3
6.6	6	□	MHS0660L060B	40.8	60.2	61.2	111.2	110	1.2	8	4
6.6	11	□	MHS0660L090B	73.8	90.2	91.2	141.2	140	1.2	8	4
6.6	16	□	MHS0660L120B	106.8	120.2	121.2	171.2	170	1.2	8	4
6.6	20	□	MHS0660L150B	133.2	150.2	151.2	201.2	200	1.2	8	4
6.6	28	□	MHS0660L200B	186.0	200.2	201.2	251.2	250	1.2	8	4
6.7	2	□	MHS0670L030B	14.6	30.2	31.2	81.2	80	1.2	8	3
6.7	6	□	MHS0670L060B	41.4	60.2	61.2	111.2	110	1.2	8	4
6.7	11	□	MHS0670L090B	74.9	90.2	91.2	141.2	140	1.2	8	4
6.7	15	□	MHS0670L120B	101.7	120.2	121.2	171.2	170	1.2	8	4
6.7	20	□	MHS0670L150B	135.2	150.2	151.2	201.2	200	1.2	8	4
6.7	27	□	MHS0670L200B	182.1	200.2	201.2	251.2	250	1.2	8	4
6.8	2	●	MHS0680L030B	14.8	30.2	31.2	81.2	80	1.2	8	3
6.8	6	●	MHS0680L060B	42.0	60.2	61.2	111.2	110	1.2	8	4
6.8	11	●	MHS0680L090B	76.0	90.2	91.2	141.2	140	1.2	8	4
6.8	15	●	MHS0680L120B	103.2	120.2	121.2	171.2	170	1.2	8	4
6.8	19	●	MHS0680L150B	130.4	150.2	151.2	201.2	200	1.2	8	4
6.8	27	●	MHS0680L200B	184.8	200.2	201.2	251.2	250	1.2	8	4
6.9	2	□	MHS0690L030B	15.0	30.2	31.2	81.2	80	1.2	8	3
6.9	6	□	MHS0690L060B	42.7	60.3	61.3	111.3	110	1.3	8	4
6.9	10	□	MHS0690L090B	70.3	90.3	91.3	141.3	140	1.3	8	4
6.9	15	□	MHS0690L120B	104.8	120.3	121.3	171.3	170	1.3	8	4
6.9	19	□	MHS0690L150B	132.4	150.3	151.3	201.3	200	1.3	8	4
6.9	26	□	MHS0690L200B	180.7	200.3	201.3	251.3	250	1.3	8	4
7.0	2	●	MHS0700L030B	15.2	30.2	31.2	81.2	80	1.2	8	3
7.0	6	●	MHS0700L060B	43.3	60.3	61.3	111.3	110	1.3	8	4
7.0	10	●	MHS0700L090B	71.3	90.3	91.3	141.3	140	1.3	8	4
7.0	14	●	MHS0700L120B	99.3	120.3	121.3	171.3	170	1.3	8	4
7.0	19	●	MHS0700L150B	134.3	150.3	151.3	201.3	200	1.3	8	4
7.0	26	●	MHS0700L200B	183.3	200.3	201.3	251.3	250	1.3	8	4
7.1	2	□	MHS0710L030B	15.4	30.7	31.2	81.2	80	1.2	8	3
7.1	6	□	MHS0710L060B	43.9	60.8	61.3	111.3	110	1.3	8	4

P

钻头

MHS
WSTAR钻头

硬质合金

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
7.1	10	□	MHS0710L090B	72.3	90.8	91.3	141.3	140	1.3	8	4
7.1	14	□	MHS0710L120B	100.7	120.8	121.3	171.3	170	1.3	8	4
7.1	19	□	MHS0710L150B	136.2	150.8	151.3	201.3	200	1.3	8	4
7.1	26	□	MHS0710L200B	185.9	200.8	201.3	251.3	250	1.3	8	4
7.2	2	□	MHS0720L030B	15.6	30.7	31.2	81.2	80	1.2	8	3
7.2	6	□	MHS0720L060B	44.5	60.8	61.3	111.3	110	1.3	8	4
7.2	10	□	MHS0720L090B	73.3	90.8	91.3	141.3	140	1.3	8	4
7.2	14	□	MHS0720L120B	102.1	120.8	121.3	171.3	170	1.3	8	4
7.2	18	□	MHS0720L150B	130.9	150.8	151.3	201.3	200	1.3	8	4
7.2	25	□	MHS0720L200B	181.3	200.8	201.3	251.3	250	1.3	8	4
7.3	2	□	MHS0730L030B	15.9	30.8	31.3	81.3	80	1.3	8	3
7.3	6	□	MHS0730L060B	45.1	60.8	61.3	111.3	110	1.3	8	4
7.3	10	□	MHS0730L090B	74.3	90.8	91.3	141.3	140	1.3	8	4
7.3	14	□	MHS0730L120B	103.5	120.8	121.3	171.3	170	1.3	8	4
7.3	18	□	MHS0730L150B	132.7	150.8	151.3	201.3	200	1.3	8	4
7.3	25	□	MHS0730L200B	183.8	200.8	201.3	251.3	250	1.3	8	4
7.4	1	□	MHS0740L030B	8.7	30.8	31.3	81.3	80	1.3	8	3
7.4	6	□	MHS0740L060B	45.7	60.8	61.3	111.3	110	1.3	8	4
7.4	10	□	MHS0740L090B	75.3	90.8	91.3	141.3	140	1.3	8	4
7.4	14	□	MHS0740L120B	104.9	120.8	121.3	171.3	170	1.3	8	4
7.4	18	□	MHS0740L150B	134.5	150.8	151.3	201.3	200	1.3	8	4
7.4	24	□	MHS0740L200B	178.9	200.8	201.3	251.3	250	1.3	8	4
7.5	1	●	MHS0750L030B	8.8	30.8	31.3	81.3	80	1.3	8	3
7.5	5	●	MHS0750L060B	38.9	60.9	61.4	111.4	110	1.4	8	4
7.5	9	●	MHS0750L090B	68.9	90.9	91.4	141.4	140	1.4	8	4
7.5	13	●	MHS0750L120B	98.9	120.9	121.4	171.4	170	1.4	8	4
7.5	17	●	MHS0750L150B	128.9	150.9	151.4	201.4	200	1.4	8	4
7.5	24	●	MHS0750L200B	181.4	200.9	201.4	251.4	250	1.4	8	4
7.6	1	□	MHS0760L030B	8.9	31.3	31.3	81.3	80	1.3	8	3
7.6	5	□	MHS0760L060B	39.4	61.4	61.4	111.4	110	1.4	8	4
7.6	9	□	MHS0760L090B	69.8	91.4	91.4	141.4	140	1.4	8	4
7.6	13	□	MHS0760L120B	100.2	121.4	121.4	171.4	170	1.4	8	4
7.6	17	□	MHS0760L150B	130.6	151.4	151.4	201.4	200	1.4	8	4
7.6	24	□	MHS0760L200B	183.8	201.4	201.4	251.4	250	1.4	8	4
7.6	30	□	MHS0760L250B	229.4	251.4	251.4	301.4	300	1.4	8	4
7.7	1	□	MHS0770L030B	9.0	31.3	31.3	81.3	80	1.3	8	3
7.7	5	□	MHS0770L060B	39.9	61.4	61.4	111.4	110	1.4	8	4
7.7	9	□	MHS0770L090B	70.7	91.4	91.4	141.4	140	1.4	8	4
7.7	13	□	MHS0770L120B	101.5	121.4	121.4	171.4	170	1.4	8	4
7.7	17	□	MHS0770L150B	132.3	151.4	151.4	201.4	200	1.4	8	4
7.7	23	□	MHS0770L200B	178.5	201.4	201.4	251.4	250	1.4	8	4
7.7	30	□	MHS0770L250B	232.4	251.4	251.4	301.4	300	1.4	8	4
7.8	1	●	MHS0780L030B	9.1	31.3	31.3	81.3	80	1.3	8	3
7.8	5	●	MHS0780L060B	40.4	61.4	61.4	111.4	110	1.4	8	4
7.8	9	●	MHS0780L090B	71.6	91.4	91.4	141.4	140	1.4	8	4
7.8	13	●	MHS0780L120B	102.8	121.4	121.4	171.4	170	1.4	8	4
7.8	17	●	MHS0780L150B	134.0	151.4	151.4	201.4	200	1.4	8	4
7.8	23	●	MHS0780L200B	180.8	201.4	201.4	251.4	250	1.4	8	4

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
7.8	30	●	MHS0780L250B	235.4	251.4	251.4	301.4	300	1.4	8	4
7.9	1	□	MHS0790L030B	9.3	31.4	31.4	81.4	80	1.4	8	3
7.9	5	□	MHS0790L060B	40.9	61.4	61.4	111.4	110	1.4	8	4
7.9	9	□	MHS0790L090B	72.5	91.4	91.4	141.4	140	1.4	8	4
7.9	13	□	MHS0790L120B	104.1	121.4	121.4	171.4	170	1.4	8	4
7.9	16	□	MHS0790L150B	127.8	151.4	151.4	201.4	200	1.4	8	4
7.9	23	□	MHS0790L200B	183.1	201.4	201.4	251.4	250	1.4	8	4
7.9	29	□	MHS0790L250B	230.5	251.4	251.4	301.4	300	1.4	8	4
8.0	1	●	MHS0800L030B	9.4	31.4	31.4	81.4	80	1.4	8	3
8.0	5	●	MHS0800L060B	41.5	61.5	61.5	111.5	110	1.5	8	4
8.0	9	●	MHS0800L090B	73.5	91.5	91.5	141.5	140	1.5	8	4
8.0	12	●	MHS0800L120B	97.5	121.5	121.5	171.5	170	1.5	8	4
8.0	16	●	MHS0800L150B	129.5	151.5	151.5	201.5	200	1.5	8	4
8.0	22	●	MHS0800L200B	177.5	201.5	201.5	251.5	250	1.5	8	4
8.0	29	●	MHS0800L250B	233.5	251.5	251.5	301.5	300	1.5	8	4
8.1	2	□	MHS0810L040B	17.6	39.9	41.4	101.4	100	1.4	10	3
8.1	8	□	MHS0810L090B	66.3	90.0	91.5	151.5	150	1.5	10	4
8.1	12	□	MHS0810L120B	98.7	120.0	121.5	181.5	180	1.5	10	4
8.1	16	□	MHS0810L150B	131.1	150.0	151.5	211.5	210	1.5	10	4
8.1	22	□	MHS0810L200B	179.7	200.0	201.5	261.5	260	1.5	10	4
8.1	28	□	MHS0810L250B	228.3	250.0	251.5	311.5	310	1.5	10	4
8.2	2	□	MHS0820L040B	17.8	39.9	41.4	101.4	100	1.4	10	3
8.2	8	□	MHS0820L090B	67.1	90.0	91.5	151.5	150	1.5	10	4
8.2	12	□	MHS0820L120B	99.9	120.0	121.5	181.5	180	1.5	10	4
8.2	16	□	MHS0820L150B	132.7	150.0	151.5	211.5	210	1.5	10	4
8.2	22	□	MHS0820L200B	181.9	200.0	201.5	261.5	260	1.5	10	4
8.2	28	□	MHS0820L250B	231.1	250.0	251.5	311.5	310	1.5	10	4
8.3	2	□	MHS0830L040B	18.0	39.9	41.4	101.4	100	1.4	10	3
8.3	8	□	MHS0830L090B	67.9	90.0	91.5	151.5	150	1.5	10	4
8.3	12	□	MHS0830L120B	101.1	120.0	121.5	181.5	180	1.5	10	4
8.3	15	□	MHS0830L150B	126.0	150.0	151.5	211.5	210	1.5	10	4
8.3	21	□	MHS0830L200B	175.8	200.0	201.5	261.5	260	1.5	10	4
8.3	27	□	MHS0830L250B	225.6	250.0	251.5	311.5	310	1.5	10	4
8.4	2	□	MHS0840L040B	18.2	39.9	41.4	101.4	100	1.4	10	3
8.4	8	□	MHS0840L090B	68.7	90.0	91.5	151.5	150	1.5	10	4
8.4	12	□	MHS0840L120B	102.3	120.0	121.5	181.5	180	1.5	10	4
8.4	15	□	MHS0840L150B	127.5	150.0	151.5	211.5	210	1.5	10	4
8.4	21	□	MHS0840L200B	177.9	200.0	201.5	261.5	260	1.5	10	4
8.4	27	□	MHS0840L250B	228.3	250.0	251.5	311.5	310	1.5	10	4
8.5	2	●	MHS0850L040B	18.5	40.0	41.5	101.5	100	1.5	10	3
8.5	8	●	MHS0850L090B	69.5	90.0	91.5	151.5	150	1.5	10	4
8.5	11	●	MHS0850L120B	95.0	120.0	121.5	181.5	180	1.5	10	4
8.5	15	●	MHS0850L150B	129.0	150.0	151.5	211.5	210	1.5	10	4
8.5	21	●	MHS0850L200B	180.0	200.0	201.5	261.5	260	1.5	10	4
8.5	27	●	MHS0850L250B	231.0	250.0	251.5	311.5	310	1.5	10	4
8.6	2	□	MHS0860L040B	18.7	40.5	41.5	101.5	100	1.5	10	3
8.6	8	□	MHS0860L090B	70.4	90.6	91.6	151.6	150	1.6	10	4
8.6	11	□	MHS0860L120B	96.2	120.6	121.6	181.6	180	1.6	10	4

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
8.6	15	□	MHS0860L150B	130.6	150.6	151.6	211.6	210	1.6	10	4
8.6	21	□	MHS0860L200B	182.2	200.6	201.6	261.6	260	1.6	10	4
8.6	26	□	MHS0860L250B	225.2	250.6	251.6	311.6	310	1.6	10	4
8.7	2	□	MHS0870L040B	18.9	40.5	41.5	101.5	100	1.5	10	3
8.7	8	□	MHS0870L090B	71.2	90.6	91.6	151.6	150	1.6	10	4
8.7	11	□	MHS0870L120B	97.3	120.6	121.6	181.6	180	1.6	10	4
8.7	15	□	MHS0870L150B	132.1	150.6	151.6	211.6	210	1.6	10	4
8.7	20	□	MHS0870L200B	175.6	200.6	201.6	261.6	260	1.6	10	4
8.7	26	□	MHS0870L250B	227.8	250.6	251.6	311.6	310	1.6	10	4
8.8	2	●	MHS0880L040B	19.1	40.5	41.5	101.5	100	1.5	10	3
8.8	8	●	MHS0880L090B	72.0	90.6	91.6	151.6	150	1.6	10	4
8.8	11	●	MHS0880L120B	98.4	120.6	121.6	181.6	180	1.6	10	4
8.8	14	●	MHS0880L150B	124.8	150.6	151.6	211.6	210	1.6	10	4
8.8	20	●	MHS0880L200B	177.6	200.6	201.6	261.6	260	1.6	10	4
8.8	26	●	MHS0880L250B	230.4	250.6	251.6	311.6	310	1.6	10	4
8.9	2	□	MHS0890L040B	19.3	40.5	41.5	101.5	100	1.5	10	3
8.9	7	□	MHS0890L090B	63.9	90.6	91.6	151.6	150	1.6	10	4
8.9	11	□	MHS0890L120B	99.5	120.6	121.6	181.6	180	1.6	10	4
8.9	14	□	MHS0890L150B	126.2	150.6	151.6	211.6	210	1.6	10	4
8.9	20	□	MHS0890L200B	179.6	200.6	201.6	261.6	260	1.6	10	4
8.9	25	□	MHS0890L250B	224.1	250.6	251.6	311.6	310	1.6	10	4
9.0	2	●	MHS0900L040B	19.5	40.5	41.5	101.5	100	1.5	10	3
9.0	7	●	MHS0900L090B	64.6	90.6	91.6	151.6	150	1.6	10	4
9.0	11	●	MHS0900L120B	100.6	120.6	121.6	181.6	180	1.6	10	4
9.0	14	●	MHS0900L150B	127.6	150.6	151.6	211.6	210	1.6	10	4
9.0	20	●	MHS0900L200B	181.6	200.6	201.6	261.6	260	1.6	10	4
9.0	25	●	MHS0900L250B	226.6	250.6	251.6	311.6	310	1.6	10	4
9.1	2	□	MHS0910L040B	19.8	41.1	41.6	101.6	100	1.6	10	3
9.1	7	□	MHS0910L090B	65.4	91.2	91.7	151.7	150	1.7	10	4
9.1	11	□	MHS0910L120B	101.8	121.2	121.7	181.7	180	1.7	10	4
9.1	14	□	MHS0910L150B	129.1	151.2	151.7	211.7	210	1.7	10	4
9.1	19	□	MHS0910L200B	174.6	201.2	201.7	261.7	260	1.7	10	4
9.1	25	□	MHS0910L250B	229.2	251.2	251.7	311.7	310	1.7	10	4
9.1	30	□	MHS0910L300B	274.7	301.2	301.7	361.7	360	1.7	10	4
9.2	2	□	MHS0920L040B	20.0	41.1	41.6	101.6	100	1.6	10	3
9.2	7	□	MHS0920L090B	66.1	91.2	91.7	151.7	150	1.7	10	4
9.2	10	□	MHS0920L120B	93.7	121.2	121.7	181.7	180	1.7	10	4
9.2	14	□	MHS0920L150B	130.5	151.2	151.7	211.7	210	1.7	10	4
9.2	19	□	MHS0920L200B	176.5	201.2	201.7	261.7	260	1.7	10	4
9.2	25	□	MHS0920L250B	231.7	251.2	251.7	311.7	310	1.7	10	4
9.2	30	□	MHS0920L300B	277.7	301.2	301.7	361.7	360	1.7	10	4
9.3	2	□	MHS0930L040B	20.2	41.1	41.6	101.6	100	1.6	10	3
9.3	7	□	MHS0930L090B	66.8	91.2	91.7	151.7	150	1.7	10	4
9.3	10	□	MHS0930L120B	94.7	121.2	121.7	181.7	180	1.7	10	4
9.3	14	□	MHS0930L150B	131.9	151.2	151.7	211.7	210	1.7	10	4
9.3	19	□	MHS0930L200B	178.4	201.2	201.7	261.7	260	1.7	10	4
9.3	24	□	MHS0930L250B	224.9	251.2	251.7	311.7	310	1.7	10	4
9.3	30	□	MHS0930L300B	280.7	301.2	301.7	361.7	360	1.7	10	4

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
9.4	2	□	MHS0940L040B	20.4	41.1	41.6	101.6	100	1.6	10	3
9.4	7	□	MHS0940L090B	67.5	91.2	91.7	151.7	150	1.7	10	4
9.4	10	□	MHS0940L120B	95.7	121.2	121.7	181.7	180	1.7	10	4
9.4	13	□	MHS0940L150B	123.9	151.2	151.7	211.7	210	1.7	10	4
9.4	19	□	MHS0940L200B	180.3	201.2	201.7	261.7	260	1.7	10	4
9.4	24	□	MHS0940L250B	227.3	251.2	251.7	311.7	310	1.7	10	4
9.4	29	□	MHS0940L300B	274.3	301.2	301.7	361.7	360	1.7	10	4
9.5	2	●	MHS0950L040B	20.6	41.1	41.6	101.6	100	1.6	10	3
9.5	7	●	MHS0950L090B	68.2	91.2	91.7	151.7	150	1.7	10	4
9.5	10	●	MHS0950L120B	96.7	121.2	121.7	181.7	180	1.7	10	4
9.5	13	●	MHS0950L150B	125.2	151.2	151.7	211.7	210	1.7	10	4
9.5	18	●	MHS0950L200B	172.7	201.2	201.7	261.7	260	1.7	10	4
9.5	24	●	MHS0950L250B	229.7	251.2	251.7	311.7	310	1.7	10	4
9.5	29	●	MHS0950L300B	277.2	301.2	301.7	361.7	360	1.7	10	4
9.6	2	□	MHS0960L040B	20.9	41.7	41.7	101.7	100	1.7	10	3
9.6	7	□	MHS0960L090B	68.9	91.7	91.7	151.7	150	1.7	10	4
9.6	10	□	MHS0960L120B	97.7	121.7	121.7	181.7	180	1.7	10	4
9.6	13	□	MHS0960L150B	126.5	151.7	151.7	211.7	210	1.7	10	4
9.6	18	□	MHS0960L200B	174.5	201.7	201.7	261.7	260	1.7	10	4
9.6	24	□	MHS0960L250B	232.1	251.7	251.7	311.7	310	1.7	10	4
9.6	29	□	MHS0960L300B	280.1	301.7	301.7	361.7	360	1.7	10	4
9.7	2	□	MHS0970L040B	21.1	41.7	41.7	101.7	100	1.7	10	3
9.7	7	□	MHS0970L090B	69.7	91.8	91.8	151.8	150	1.8	10	4
9.7	10	□	MHS0970L120B	98.8	121.8	121.8	181.8	180	1.8	10	4
9.7	13	□	MHS0970L150B	127.9	151.8	151.8	211.8	210	1.8	10	4
9.7	18	□	MHS0970L200B	176.4	201.8	201.8	261.8	260	1.8	10	4
9.7	23	□	MHS0970L250B	224.9	251.8	251.8	311.8	310	1.8	10	4
9.7	28	□	MHS0970L300B	273.4	301.8	301.8	361.8	360	1.8	10	4
9.8	2	●	MHS0980L040B	21.3	41.7	41.7	101.7	100	1.7	10	3
9.8	7	●	MHS0980L090B	70.4	91.8	91.8	151.8	150	1.8	10	4
9.8	10	●	MHS0980L120B	99.8	121.8	121.8	181.8	180	1.8	10	4
9.8	13	●	MHS0980L150B	129.2	151.8	151.8	211.8	210	1.8	10	4
9.8	18	●	MHS0980L200B	178.2	201.8	201.8	261.8	260	1.8	10	4
9.8	23	●	MHS0980L250B	227.2	251.8	251.8	311.8	310	1.8	10	4
9.8	28	●	MHS0980L300B	276.2	301.8	301.8	361.8	360	1.8	10	4
9.9	2	□	MHS0990L040B	21.5	41.7	41.7	101.7	100	1.7	10	3
9.9	7	□	MHS0990L090B	71.1	91.8	91.8	151.8	150	1.8	10	4
9.9	10	□	MHS0990L120B	100.8	121.8	121.8	181.8	180	1.8	10	4
9.9	13	□	MHS0990L150B	130.5	151.8	151.8	211.8	210	1.8	10	4
9.9	18	□	MHS0990L200B	180.0	201.8	201.8	261.8	260	1.8	10	4
9.9	23	□	MHS0990L250B	229.5	251.8	251.8	311.8	310	1.8	10	4
9.9	28	□	MHS0990L300B	279.0	301.8	301.8	361.8	360	1.8	10	4
10.0	1	●	MHS1000L040B	11.7	41.7	41.7	101.7	100	1.7	10	3
10.0	6	●	MHS1000L090B	61.8	91.8	91.8	151.8	150	1.8	10	4
10.0	9	●	MHS1000L120B	91.8	121.8	121.8	181.8	180	1.8	10	4
10.0	12	●	MHS1000L150B	121.8	151.8	151.8	211.8	210	1.8	10	4
10.0	17	●	MHS1000L200B	171.8	201.8	201.8	261.8	260	1.8	10	4
10.0	22	●	MHS1000L250B	221.8	251.8	251.8	311.8	310	1.8	10	4

P

钻头

MHS
WSTAR钻头

硬质合金

DC	钻削孔深 (mm)	VP15TF (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
10.0	27	●	MHS1000L300B	271.8	301.8	301.8	361.8	360	1.8	10	4
10.1	1	□	MHS1010L040B	11.8	40.2	41.7	101.7	100	1.7	12	3
10.1	6	□	MHS1010L090B	62.4	90.3	91.8	151.8	150	1.8	12	4
10.1	9	□	MHS1010L120B	92.7	120.3	121.8	181.8	180	1.8	12	4
10.1	12	□	MHS1010L150B	123.0	150.3	151.8	211.8	210	1.8	12	4
10.1	17	□	MHS1010L200B	173.5	200.3	201.8	261.8	260	1.8	12	4
10.1	22	□	MHS1010L250B	224.0	250.3	251.8	311.8	310	1.8	12	4
10.1	27	□	MHS1010L300B	274.5	300.3	301.8	361.8	360	1.8	12	4
10.2	1	□	MHS1020L040B	12.0	40.3	41.8	101.8	100	1.8	12	3
10.2	6	□	MHS1020L090B	63.1	90.4	91.9	151.9	150	1.9	12	4
10.2	9	□	MHS1020L120B	93.7	120.4	121.9	181.9	180	1.9	12	4
10.2	12	□	MHS1020L150B	124.3	150.4	151.9	211.9	210	1.9	12	4
10.2	17	□	MHS1020L200B	175.3	200.4	201.9	261.9	260	1.9	12	4
10.2	22	□	MHS1020L250B	226.3	250.4	251.9	311.9	310	1.9	12	4
10.2	27	□	MHS1020L300B	277.3	300.4	301.9	361.9	360	1.9	12	4
10.3	1	□	MHS1030L040B	12.1	40.3	41.8	101.8	100	1.8	12	3
10.3	6	□	MHS1030L090B	63.7	90.4	91.9	151.9	150	1.9	12	4
10.3	9	□	MHS1030L120B	94.6	120.4	121.9	181.9	180	1.9	12	4
10.3	12	□	MHS1030L150B	125.5	150.4	151.9	211.9	210	1.9	12	4
10.3	17	□	MHS1030L200B	177.0	200.4	201.9	261.9	260	1.9	12	4
10.3	22	□	MHS1030L250B	228.5	250.4	251.9	311.9	310	1.9	12	4
10.3	26	□	MHS1030L300B	269.7	300.4	301.9	361.9	360	1.9	12	4
10.4	1	□	MHS1040L040B	12.2	40.3	41.8	101.8	100	1.8	12	3
10.4	6	□	MHS1040L090B	64.3	90.4	91.9	151.9	150	1.9	12	4
10.4	9	□	MHS1040L120B	95.5	120.4	121.9	181.9	180	1.9	12	4
10.4	12	□	MHS1040L150B	126.7	150.4	151.9	211.9	210	1.9	12	4
10.4	17	□	MHS1040L200B	178.7	200.4	201.9	261.9	260	1.9	12	4
10.4	21	□	MHS1040L250B	220.3	250.4	251.9	311.9	310	1.9	12	4
10.4	26	□	MHS1040L300B	272.3	300.4	301.9	361.9	360	1.9	12	4
10.5	1	●	MHS1050L040B	12.3	40.3	41.8	101.8	100	1.8	12	3
10.5	6	●	MHS1050L090B	64.9	90.4	91.9	151.9	150	1.9	12	4
10.5	9	●	MHS1050L120B	96.4	120.4	121.9	181.9	180	1.9	12	4
10.5	12	●	MHS1050L150B	127.9	150.4	151.9	211.9	210	1.9	12	4
10.5	16	●	MHS1050L200B	169.9	200.4	201.9	261.9	260	1.9	12	4
10.5	21	●	MHS1050L250B	222.4	250.4	251.9	311.9	310	1.9	12	4
10.5	26	●	MHS1050L300B	274.9	300.4	301.9	361.9	360	1.9	12	4
10.6	1	□	MHS1060L040B	12.4	40.8	41.8	101.8	100	1.8	12	3
10.6	6	□	MHS1060L090B	65.5	90.9	91.9	151.9	150	1.9	12	4
10.6	9	□	MHS1060L120B	97.3	120.9	121.9	181.9	180	1.9	12	4
10.6	12	□	MHS1060L150B	129.1	150.9	151.9	211.9	210	1.9	12	4
10.6	16	□	MHS1060L200B	171.5	200.9	201.9	261.9	260	1.9	12	4
10.6	21	□	MHS1060L250B	224.5	250.9	251.9	311.9	310	1.9	12	4
10.6	26	□	MHS1060L300B	277.5	300.9	301.9	361.9	360	1.9	12	4
10.7	1	□	MHS1070L040B	12.5	40.8	41.8	101.8	100	1.8	12	3
10.7	6	□	MHS1070L090B	66.1	90.9	91.9	151.9	150	1.9	12	4
10.7	9	□	MHS1070L120B	98.2	120.9	121.9	181.9	180	1.9	12	4
10.7	11	□	MHS1070L150B	119.6	150.9	151.9	211.9	210	1.9	12	4
10.7	16	□	MHS1070L200B	173.1	200.9	201.9	261.9	260	1.9	12	4

DC	钻削孔深 (mm)	VP15TF (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
10.7	21	□	MHS1070L250B	226.6	250.9	251.9	311.9	310	1.9	12	4
10.7	25	□	MHS1070L300B	269.4	300.9	301.9	361.9	360	1.9	12	4
10.8	1	●	MHS1080L040B	12.7	40.9	41.9	101.9	100	1.9	12	3
10.8	6	●	MHS1080L090B	66.8	91.0	92.0	152.0	150	2.0	12	4
10.8	9	●	MHS1080L120B	99.2	121.0	122.0	182.0	180	2.0	12	4
10.8	11	●	MHS1080L150B	120.8	151.0	152.0	212.0	210	2.0	12	4
10.8	16	●	MHS1080L200B	174.8	201.0	202.0	262.0	260	2.0	12	4
10.8	21	●	MHS1080L250B	228.8	251.0	252.0	312.0	310	2.0	12	4
10.8	25	●	MHS1080L300B	272.0	301.0	302.0	362.0	360	2.0	12	4
10.9	1	□	MHS1090L040B	12.8	40.9	41.9	101.9	100	1.9	12	3
10.9	6	□	MHS1090L090B	67.4	91.0	92.0	152.0	150	2.0	12	4
10.9	8	□	MHS1090L120B	89.2	121.0	122.0	182.0	180	2.0	12	4
10.9	11	□	MHS1090L150B	121.9	151.0	152.0	212.0	210	2.0	12	4
10.9	16	□	MHS1090L200B	176.4	201.0	202.0	262.0	260	2.0	12	4
10.9	20	□	MHS1090L250B	220.0	251.0	252.0	312.0	310	2.0	12	4
10.9	25	□	MHS1090L300B	274.5	301.0	302.0	362.0	360	2.0	12	4
11.0	1	●	MHS1100L040B	12.9	40.9	41.9	101.9	100	1.9	12	3
11.0	6	●	MHS1100L090B	68.0	91.0	92.0	152.0	150	2.0	12	4
11.0	8	●	MHS1100L120B	90.0	121.0	122.0	182.0	180	2.0	12	4
11.0	11	●	MHS1100L150B	123.0	151.0	152.0	212.0	210	2.0	12	4
11.0	16	●	MHS1100L200B	178.0	201.0	202.0	262.0	260	2.0	12	4
11.0	20	●	MHS1100L250B	222.0	251.0	252.0	312.0	310	2.0	12	4
11.0	25	●	MHS1100L300B	277.0	301.0	302.0	362.0	360	2.0	12	4
11.1	1	□	MHS1110L040B	13.0	41.4	41.9	101.9	100	1.9	12	3
11.1	6	□	MHS1110L090B	68.6	91.5	92.0	152.0	150	2.0	12	4
11.1	8	□	MHS1110L120B	90.8	121.5	122.0	182.0	180	2.0	12	4
11.1	11	□	MHS1110L150B	124.1	151.5	152.0	212.0	210	2.0	12	4
11.1	15	□	MHS1110L200B	168.5	201.5	202.0	262.0	260	2.0	12	4
11.1	20	□	MHS1110L250B	224.0	251.5	252.0	312.0	310	2.0	12	4
11.1	24	□	MHS1110L300B	268.4	301.5	302.0	362.0	360	2.0	12	4
11.2	1	□	MHS1120L040B	13.1	41.4	41.9	101.9	100	1.9	12	3
11.2	5	□	MHS1120L090B	58.0	91.5	92.0	152.0	150	2.0	12	4
11.2	8	□	MHS1120L120B	91.6	121.5	122.0	182.0	180	2.0	12	4
11.2	11	□	MHS1120L150B	125.2	151.5	152.0	212.0	210	2.0	12	4
11.2	15	□	MHS1120L200B	170.0	201.5	202.0	262.0	260	2.0	12	4
11.2	20	□	MHS1120L250B	226.0	251.5	252.0	312.0	310	2.0	12	4
11.2	24	□	MHS1120L300B	270.8	301.5	302.0	362.0	360	2.0	12	4
11.3	1	□	MHS1130L040B	13.2	41.4	41.9	101.9	100	1.9	12	3
11.3	5	□	MHS1130L090B	58.6	91.6	92.1	152.1	150	2.1	12	4
11.3	8	□	MHS1130L120B	92.5	121.6	122.1	182.1	180	2.1	12	4
11.3	11	□	MHS1130L150B	126.4	151.6	152.1	212.1	210	2.1	12	4
11.3	15	□	MHS1130L200B	171.6	201.6	202.1	262.1	260	2.1	12	4
11.3	20	□	MHS1130L250B	228.1	251.6	252.1	312.1	310	2.1	12	4
11.3	24	□	MHS1130L300B	273.3	301.6	302.1	362.1	360	2.1	12	4
11.4	1	□	MHS1140L040B	13.4	41.5	42.0	102.0	100	2.0	12	3
11.4	5	□	MHS1140L090B	59.1	91.6	92.1	152.1	150	2.1	12	4
11.4	8	□	MHS1140L120B	93.3	121.6	122.1	182.1	180	2.1	12	4
11.4	11	□	MHS1140L150B	127.5	151.6	152.1	212.1	210	2.1	12	4

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
11.4	15	□	MHS1140L200B	173.1	201.6	202.1	262.1	260	2.1	12	4
11.4	19	□	MHS1140L250B	218.7	251.6	252.1	312.1	310	2.1	12	4
11.4	24	□	MHS1140L300B	275.7	301.6	302.1	362.1	360	2.1	12	4
11.5	1	●	MHS1150L040B	13.5	41.5	42.0	102.0	100	2.0	12	3
11.5	5	●	MHS1150L090B	59.6	91.6	92.1	152.1	150	2.1	12	4
11.5	8	●	MHS1150L120B	94.1	121.6	122.1	182.1	180	2.1	12	4
11.5	10	●	MHS1150L150B	117.1	151.6	152.1	212.1	210	2.1	12	4
11.5	15	●	MHS1150L200B	174.6	201.6	202.1	262.1	260	2.1	12	4
11.5	19	●	MHS1150L250B	220.6	251.6	252.1	312.1	310	2.1	12	4
11.5	24	●	MHS1150L300B	278.1	301.6	302.1	362.1	360	2.1	12	4
11.6	1	□	MHS1160L040B	13.6	42.0	42.0	102.0	100	2.0	12	3
11.6	5	□	MHS1160L090B	60.1	92.1	92.1	152.1	150	2.1	12	4
11.6	8	□	MHS1160L120B	94.9	122.1	122.1	182.1	180	2.1	12	4
11.6	10	□	MHS1160L150B	118.1	152.1	152.1	212.1	210	2.1	12	4
11.6	15	□	MHS1160L200B	176.1	202.1	202.1	262.1	260	2.1	12	4
11.6	19	□	MHS1160L250B	222.5	252.1	252.1	312.1	310	2.1	12	4
11.6	23	□	MHS1160L300B	268.9	302.1	302.1	362.1	360	2.1	12	4
11.7	1	□	MHS1170L040B	13.7	42.0	42.0	102.0	100	2.0	12	3
11.7	5	□	MHS1170L090B	60.6	92.1	92.1	152.1	150	2.1	12	4
11.7	8	□	MHS1170L120B	95.7	122.1	122.1	182.1	180	2.1	12	4
11.7	10	□	MHS1170L150B	119.1	152.1	152.1	212.1	210	2.1	12	4
11.7	15	□	MHS1170L200B	177.6	202.1	202.1	262.1	260	2.1	12	4
11.7	19	□	MHS1170L250B	224.4	252.1	252.1	312.1	310	2.1	12	4
11.7	23	□	MHS1170L300B	271.2	302.1	302.1	362.1	360	2.1	12	4

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
11.8	1	●	MHS1180L040B	13.8	42.0	42.0	102.0	100	2.0	12	3
11.8	5	●	MHS1180L090B	61.1	92.1	92.1	152.1	150	2.1	12	4
11.8	8	●	MHS1180L120B	96.5	122.1	122.1	182.1	180	2.1	12	4
11.8	10	●	MHS1180L150B	120.1	152.1	152.1	212.1	210	2.1	12	4
11.8	14	●	MHS1180L200B	167.3	202.1	202.1	262.1	260	2.1	12	4
11.8	19	●	MHS1180L250B	226.3	252.1	252.1	312.1	310	2.1	12	4
11.8	23	●	MHS1180L300B	273.5	302.1	302.1	362.1	360	2.1	12	4
11.9	1	□	MHS1190L040B	13.9	42.0	42.0	102.0	100	2.0	12	3
11.9	5	□	MHS1190L090B	61.7	92.2	92.2	152.2	150	2.2	12	4
11.9	8	□	MHS1190L120B	97.4	122.2	122.2	182.2	180	2.2	12	4
11.9	10	□	MHS1190L150B	121.2	152.2	152.2	212.2	210	2.2	12	4
11.9	14	□	MHS1190L200B	168.8	202.2	202.2	262.2	260	2.2	12	4
11.9	19	□	MHS1190L250B	228.3	252.2	252.2	312.2	310	2.2	12	4
11.9	23	□	MHS1190L300B	275.9	302.2	302.2	362.2	360	2.2	12	4
12.0	1	●	MHS1200L040B	14.1	42.1	42.1	102.1	100	2.1	12	3
12.0	5	●	MHS1200L090B	62.2	92.2	92.2	152.2	150	2.2	12	4
12.0	7	●	MHS1200L120B	86.2	122.2	122.2	182.2	180	2.2	12	4
12.0	10	●	MHS1200L150B	122.2	152.2	152.2	212.2	210	2.2	12	4
12.0	14	●	MHS1200L200B	170.2	202.2	202.2	262.2	260	2.2	12	4
12.0	18	●	MHS1200L250B	218.2	252.2	252.2	312.2	310	2.2	12	4
12.0	22	●	MHS1200L300B	266.2	302.2	302.2	362.2	360	2.2	12	4

推荐切削条件

工件材料	软钢 (≤HB180)、 碳钢、合金钢 (HB180—280)				铁素体、析出硬化类不锈钢 (>HB200)			
	SS400、S10C、 S45C、SCM440等				SUS431、SUS420J2等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
1	40	12700	0.030 (0.020—0.040)	380	20	6400	0.030 (0.020—0.040)	190
1.2	50	13300	0.035 (0.025—0.050)	465	30	8000	0.035 (0.025—0.050)	280
1.6	60	11900	0.050 (0.030—0.065)	595	40	8000	0.050 (0.030—0.065)	400
2	70	11100	0.060 (0.040—0.080)	665	50	8000	0.060 (0.040—0.080)	480
2.5	80	10200	0.075 (0.050—0.100)	765	60	7600	0.075 (0.050—0.100)	570
3.2	80	8000	0.100 (0.070—0.130)	800	60	6000	0.100 (0.070—0.130)	600
4	80	6400	0.100 (0.090—0.110)	640	60	4800	0.090 (0.080—0.090)	430
5	80	5100	0.130 (0.110—0.140)	665	60	3800	0.110 (0.100—0.120)	420
6.3	80	4000	0.160 (0.140—0.180)	640	60	3000	0.140 (0.130—0.150)	420
8	80	3200	0.200 (0.180—0.230)	640	60	2400	0.170 (0.160—0.190)	410
10	80	2600	0.250 (0.220—0.280)	650	60	1900	0.220 (0.200—0.230)	420
12	80	2100	0.300 (0.270—0.340)	630	60	1600	0.260 (0.240—0.280)	415

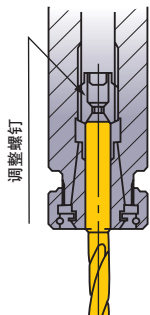
工件材料	预硬钢 (HRC35—45)、 合金工具钢 (≤HB350)				不锈钢 (HRC40—55)、 析出硬化类不锈钢 (<HB450)			
	NAK, PX5、 SKD、SKT等				SUS431、SUS420J2、STAVAX、 SUS630、SUS631等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
1	20	6400	0.025 (0.020—0.030)	160	40	12700	0.020 (0.015—0.025)	255
1.2	30	8000	0.030 (0.020—0.035)	240	40	10600	0.025 (0.020—0.030)	265
1.6	40	8000	0.040 (0.030—0.045)	320	50	10000	0.035 (0.025—0.040)	350
2	50	8000	0.045 (0.035—0.060)	360	50	8000	0.040 (0.030—0.050)	320
2.5	60	7600	0.060 (0.045—0.075)	455	60	7600	0.050 (0.040—0.065)	380
3.2	60	6000	0.080 (0.060—0.090)	480	60	6000	0.060 (0.050—0.080)	360
4	60	4800	0.080 (0.070—0.100)	385	60	4800	0.080 (0.060—0.100)	385
5	60	3800	0.110 (0.090—0.130)	420	60	3800	0.100 (0.080—0.130)	380
6.3	60	3000	0.130 (0.110—0.160)	390	60	3000	0.110 (0.090—0.130)	330
8	60	2400	0.170 (0.140—0.200)	410	60	2400	0.140 (0.120—0.160)	335
10	60	1900	0.210 (0.170—0.250)	400	60	1900	0.170 (0.140—0.200)	325
12	60	1600	0.250 (0.210—0.300)	400	60	1600	0.210 (0.170—0.240)	335

工件材料	高硬度钢 (HRC40—55)、 耐热合金 SKD61、SKT4、 Inconel718等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
1	10	3200	0.015 (0.015—0.020)	50
1.2	10	2700	0.020 (0.015—0.025)	55
1.6	10	2000	0.025 (0.020—0.030)	50
2	20	3200	0.035 (0.025—0.040)	110
2.5	20	2600	0.040 (0.030—0.050)	105
3.2	20	2000	0.050 (0.040—0.070)	100
4	30	2400	0.070 (0.050—0.080)	170
5	30	1900	0.080 (0.060—0.100)	150
6.3	30	1500	0.090 (0.080—0.110)	135
8	40	1600	0.120 (0.100—0.130)	190
10	40	1300	0.150 (0.130—0.170)	195
12	40	1100	0.180 (0.150—0.200)	200

- 注1) 使用L/D10以上的钻头时,需要事先加工导孔。(离心力的作用可能会使刀具转动时产生振摆,引发折损。)
- 注2) 因为导孔钻直径公差の設定和通用型钻头不同,推荐使用MHS钻头的最短槽长产品。
- 注3) MHS型全部产品均可用于热缩式刀柄。
- 注4) 各直径中的最短型产品用于导孔加工。

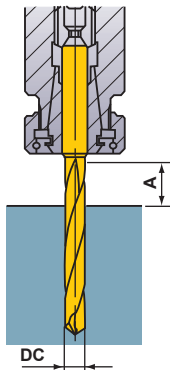
■ 高级使用方法

钻头装夹



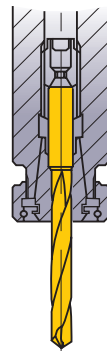
使用推力轴承型的弹簧夹头可确保夹紧。

确定装夹钻头长度的方法



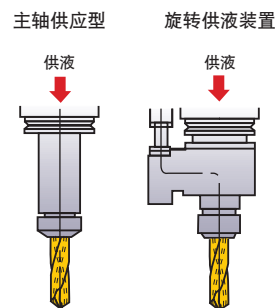
图中的A尺寸要确保DCx2以上。

安装注意事项



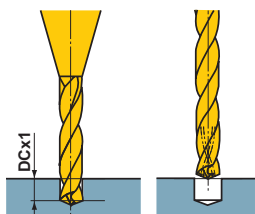
不能把钻头的沟槽部位夹住。

切削液的压力



ø3mm以下: 1.5MPa~7MPa
超过了ø3mm: 0.5MPa~7MPa
推荐3MPa以上。

小直径钻头的使用方法

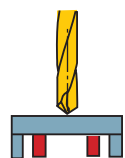


- 1) 采用槽长最短的 MHS 钻头，加工深度 DCx1 (DC为钻头直径) 左右的底孔。
- 2) 加工完底孔，使用带有冷却孔德钻头进行加工。请根据加工内容来决定是进行步进式加工还是微进给加工。

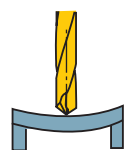
切削液的管理

- 1) 供液系统必须安装切削液过滤网。细小的切屑颗粒等会堵塞冷却孔。特别是使用小直径钻头，应尽量选用细目滤网。
- 2) 切削液用久后，液中的细小杂物会附在冷却孔内，导致供液不畅。应及早更换。

薄板钻削

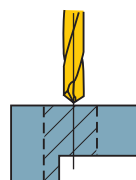


增加支承
OK

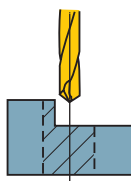


发生挠曲
NG

断续钻削

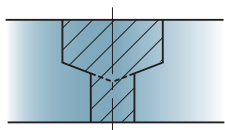


可以加工
OK
①断续面处应降低进给量。



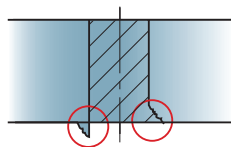
前加工必要
①先由立铣刀镗孔。

阶梯孔钻削



- ①可分两个工序钻削。
 - ②先钻削大直径部分。
- ※本公司也制造带铤孔或倒角刃的复合钻头。

将钻通时出现毛刺、塌陷



- ①将钻通时应降低进给量。
- ②钻头肩部处理成倒角。
- ③改变钻头顶角。

■ 小径MHS长钻头(L/D=10以上)的高级使用方法

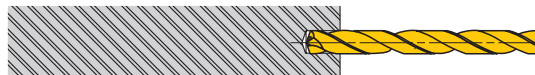
加工部位为平面的加工 ●加工盲孔时

■ 1. 导孔加工



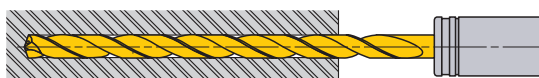
- ①导孔加工用钻头的顶角角度需大于长钻头的140°顶角。
推荐使用槽长最短的MHS钻头。
- ②确保良好的导孔精度(圆度)。
- ③孔深 $DC \times 1$ 左右即可。
(请根据长钻头的长度调整导孔深度。)

■ 2. 深孔加工 (插进导孔内)



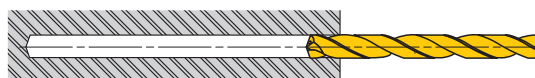
- ①请在低转速条件下插进导孔内。
(转速 1000min^{-1} 、进给量 $0.2 \sim 0.3\text{mm/rev}$ 左右)
- ②插至距导孔底部 $1 \sim 3\text{mm}$ 左右的位置。(确保切削刃肩部全部插入)

■ 3. 深孔加工 (加工开始、结束)



- ①开始旋转、进给加工(非步进加工)

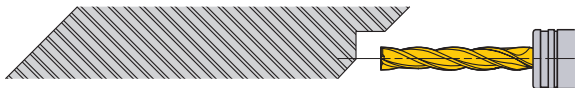
■ 4. 深孔加工 (退回)



- ①加工结束后,在距孔底 $0.5 \sim 1\text{mm}$ 的位置降低转速。
(转速 1000min^{-1} 左右)
- ②将钻头以 3000mm/min 的进给速度退回到开始加工的位置。
- ③以与插进导孔时同样的条件退出。

包含断续的加工情况 ●加工部位为倾斜面或异形时。钻通部位为倾斜面或异形时。

■ 1. 铤孔加工



- ①用立铣刀或能进行铤孔加工的钻头把倾斜面加工成平坦面。
此时的铤孔直径为长钻头切削刃直径 $\sim +0.1\text{mm}$ 的范围内。

■ 2. 导孔加工



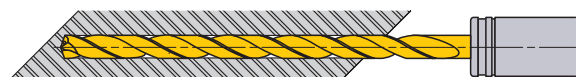
- ①导孔加工用钻头的顶角角度需大于长钻头的140°顶角。
推荐使用槽长最短的MHS钻头。
- ②确保良好的导孔精度(圆度)。
- ③孔深 $DC \times 1$ 左右即可。
(请根据长钻头的长度调整导孔深度。)

■ 3. 深孔加工 (插进导孔内)



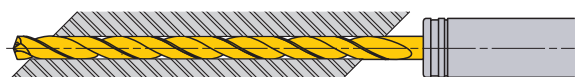
- ①请在低转速条件下插进导孔内。
(转速 1000min^{-1} 、进给量 $0.2 \sim 0.3\text{mm/rev}$ 左右)
- ②插至距导孔底部 $0.5 \sim 1\text{mm}$ 左右的位置。

■ 4. 深孔加工 (加工开始、钻通前)



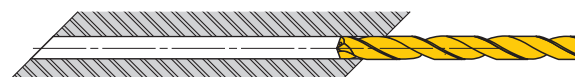
- ①开始旋转、进给加工(非步进加工)
- ②钻通前用通常的进给速度。

■ 5. 深孔加工 (钻通时的断续切削)



- ①钻通时的断续切削易损伤切削刃。
- ②通孔加工时,推荐进给量为通常进给量的一半。

■ 6. 深孔加工 (退回)



- ①钻通后请降低转速。(转速 1000min^{-1} 左右)
- ②将钻头以 3000mm/min 的进给速度退回到开始加工的位置。

钻孔 [整体硬质合金钻头]

MNS
WSTAR钻头

- 4个冷却孔可减轻铝合金加工时的粘结现象
- 可实现铝合金的高效加工



P

M

K

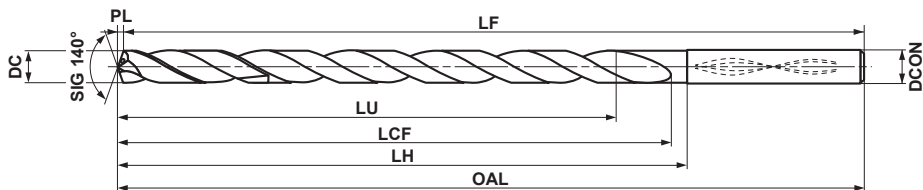
N

S

H

有色金属

内冷却



	DC=3	3<DC≤6	6<DC≤10	10<DC≤14
	$0_{-0.014}$	$0_{-0.018}$	$0_{-0.022}$	$0_{-0.027}$
	DCON=3	3<DCON≤6	6<DCON≤10	10<DCON≤14
	$0_{-0.006}$	$0_{-0.008}$	$0_{-0.009}$	$0_{-0.011}$

- 注1) MNS型全部产品均可用于热缩式刀柄。
注2) 钻头直径在φ4.5以下的产品冷却孔为2孔。

DC (mm)	切削孔深 (L/D)	TF15	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
3.0	5	●	MNS0300LB	15.5	33.5	33.5	81.5	81	0.5	3
3.0	10	●	MNS0300X10DB	30.5	39.5	42.5	90.5	90	0.5	3
3.0	20	●	MNS0300X20DB	60.5	69.5	72.5	120.5	120	0.5	3
3.0	30	●	MNS0300X30DB	90.5	99.5	102.5	150.5	150	0.5	3
3.1	5	●	MNS0310LB	16.1	39.6	39.6	87.6	87	0.6	4
3.1	10	□	MNS0310X10DB	31.6	46.6	49.6	97.6	97	0.6	4
3.1	20	□	MNS0310X20DB	62.6	81.6	84.6	132.6	132	0.6	4
3.1	30	□	MNS0310X30DB	93.6	116.6	119.6	167.6	167	0.6	4
3.2	5	●	MNS0320LB	16.6	39.6	39.6	87.6	87	0.6	4
3.2	10	●	MNS0320X10DB	32.6	46.6	49.6	97.6	97	0.6	4
3.2	20	●	MNS0320X20DB	64.6	81.6	84.6	132.6	132	0.6	4
3.2	30	●	MNS0320X30DB	96.6	116.6	119.6	167.6	167	0.6	4
3.3	5	●	MNS0330LB	17.1	39.6	39.6	87.6	87	0.6	4
3.3	10	□	MNS0330X10DB	33.6	46.6	49.6	97.6	97	0.6	4
3.3	20	□	MNS0330X20DB	66.6	81.6	84.6	132.6	132	0.6	4
3.3	30	□	MNS0330X30DB	99.6	116.6	119.6	167.6	167	0.6	4
3.4	5	●	MNS0340LB	17.6	39.6	39.6	87.6	87	0.6	4
3.4	10	●	MNS0340X10DB	34.6	46.6	49.6	97.6	97	0.6	4
3.4	20	●	MNS0340X20DB	68.6	81.6	84.6	132.6	132	0.6	4
3.4	30	●	MNS0340X30DB	102.6	116.6	119.6	167.6	167	0.6	4
3.5	5	●	MNS0350LB	18.1	39.6	39.6	87.6	87	0.6	4
3.5	10	□	MNS0350X10DB	35.6	46.6	49.6	97.6	97	0.6	4
3.5	20	□	MNS0350X20DB	70.6	81.6	84.6	132.6	132	0.6	4
3.5	30	□	MNS0350X30DB	105.6	116.6	119.6	167.6	167	0.6	4
3.6	5	●	MNS0360LB	18.7	44.7	44.7	92.7	92	0.7	4
3.6	10	●	MNS0360X10DB	36.7	52.7	55.7	103.7	103	0.7	4
3.6	20	●	MNS0360X20DB	72.7	92.7	95.7	143.7	143	0.7	4
3.6	30	●	MNS0360X30DB	108.7	132.7	135.7	183.7	183	0.7	4

DC (mm)	切削孔深 (L/D)	TF15	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
3.7	5	●	MNS0370LB	19.2	44.7	44.7	92.7	92	0.7	4
3.7	10	□	MNS0370X10DB	37.7	52.7	55.7	103.7	103	0.7	4
3.7	20	□	MNS0370X20DB	74.7	92.7	95.7	143.7	143	0.7	4
3.7	30	□	MNS0370X30DB	111.7	132.7	135.7	183.7	183	0.7	4
3.8	5	●	MNS0380LB	19.7	44.7	44.7	92.7	92	0.7	4
3.8	10	□	MNS0380X10DB	38.7	52.7	55.7	103.7	103	0.7	4
3.8	20	□	MNS0380X20DB	76.7	92.7	95.7	143.7	143	0.7	4
3.8	30	□	MNS0380X30DB	114.7	132.7	135.7	183.7	183	0.7	4
3.9	5	●	MNS0390LB	20.2	44.7	44.7	92.7	92	0.7	4
3.9	10	●	MNS0390X10DB	39.7	52.7	55.7	103.7	103	0.7	4
3.9	20	●	MNS0390X20DB	78.7	92.7	95.7	143.7	143	0.7	4
3.9	30	●	MNS0390X30DB	117.7	132.7	135.7	183.7	183	0.7	4
4.0	5	●	MNS0400LB	20.7	44.7	44.7	92.7	92	0.7	4
4.0	10	●	MNS0400X10DB	40.7	52.7	55.7	103.7	103	0.7	4
4.0	20	●	MNS0400X20DB	80.7	92.7	95.7	143.7	143	0.7	4
4.0	30	●	MNS0400X30DB	120.7	132.7	135.7	183.7	183	0.7	4
4.1	5	●	MNS0410LB	21.2	50.7	50.7	100.7	100	0.7	5
4.1	10	□	MNS0410X10DB	41.7	59.7	62.7	112.7	112	0.7	5
4.1	20	□	MNS0410X20DB	82.7	104.7	107.7	157.7	157	0.7	5
4.1	30	□	MNS0410X30DB	123.7	149.7	152.7	202.7	202	0.7	5
4.2	5	●	MNS0420LB	21.8	50.8	50.8	100.8	100	0.8	5
4.2	10	□	MNS0420X10DB	42.8	59.8	62.8	112.8	112	0.8	5
4.2	20	□	MNS0420X20DB	84.8	104.8	107.8	157.8	157	0.8	5
4.2	30	□	MNS0420X30DB	126.8	149.8	152.8	202.8	202	0.8	5
4.3	5	●	MNS0430LB	22.3	50.8	50.8	100.8	100	0.8	5
4.3	10	□	MNS0430X10DB	43.8	59.8	62.8	112.8	112	0.8	5
4.3	20	□	MNS0430X20DB	86.8	104.8	107.8	157.8	157	0.8	5
4.3	30	□	MNS0430X30DB	129.8	149.8	152.8	202.8	202	0.8	5

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
4.4	5	●	MNS0440LB	22.8	50.8	50.8	100.8	100	0.8	5
4.4	10	□	MNS0440X10DB	44.8	59.8	62.8	112.8	112	0.8	5
4.4	20	□	MNS0440X20DB	88.8	104.8	107.8	157.8	157	0.8	5
4.4	30	□	MNS0440X30DB	132.8	149.8	152.8	202.8	202	0.8	5
4.5	5	●	MNS0450LB	23.3	50.8	50.8	100.8	100	0.8	5
4.5	10	□	MNS0450X10DB	45.8	59.8	62.8	112.8	112	0.8	5
4.5	20	□	MNS0450X20DB	90.8	104.8	107.8	157.8	157	0.8	5
4.5	30	□	MNS0450X30DB	135.8	149.8	152.8	202.8	202	0.8	5
4.6	5	●	MNS0460LB	23.8	55.8	55.8	105.8	105	0.8	5
4.6	10	□	MNS0460X10DB	46.8	65.8	68.8	118.8	118	0.8	5
4.6	20	□	MNS0460X20DB	92.8	115.8	118.8	168.8	168	0.8	5
4.6	30	□	MNS0460X30DB	138.8	165.8	168.8	218.8	218	0.8	5
4.7	5	●	MNS0470LB	24.4	55.9	55.9	105.9	105	0.9	5
4.7	10	□	MNS0470X10DB	47.9	65.9	68.9	118.9	118	0.9	5
4.7	20	□	MNS0470X20DB	94.9	115.9	118.9	168.9	168	0.9	5
4.7	30	□	MNS0470X30DB	141.9	165.9	168.9	218.9	218	0.9	5
4.8	5	●	MNS0480LB	24.9	55.9	55.9	105.9	105	0.9	5
4.8	10	□	MNS0480X10DB	48.9	65.9	68.9	118.9	118	0.9	5
4.8	20	□	MNS0480X20DB	96.9	115.9	118.9	168.9	168	0.9	5
4.8	30	□	MNS0480X30DB	144.9	165.9	168.9	218.9	218	0.9	5
4.9	5	●	MNS0490LB	25.4	55.9	55.9	105.9	105	0.9	5
4.9	10	●	MNS0490X10DB	49.9	65.9	68.9	118.9	118	0.9	5
4.9	20	●	MNS0490X20DB	98.9	115.9	118.9	168.9	168	0.9	5
4.9	30	●	MNS0490X30DB	147.9	165.9	168.9	218.9	218	0.9	5
5.0	5	●	MNS0500LB	25.9	44.9	44.9	100.9	100	0.9	6
5.0	10	●	MNS0500X10DB	50.9	65.9	68.9	118.9	118	0.9	5
5.0	20	●	MNS0500X20DB	100.9	115.9	118.9	168.9	168	0.9	5
5.0	30	●	MNS0500X30DB	150.9	165.9	168.9	218.9	218	0.9	5
5.1	5	●	MNS0510LB	26.4	44.9	44.9	100.9	100	0.9	6
5.1	10	●	MNS0510X10DB	51.9	72.9	75.9	127.9	127	0.9	6
5.1	20	●	MNS0510X20DB	102.9	127.9	130.9	182.9	182	0.9	6
5.1	30	●	MNS0510X30DB	153.9	182.9	185.9	237.9	237	0.9	6
5.2	5	●	MNS0520LB	26.9	44.9	44.9	100.9	100	0.9	6
5.2	10	□	MNS0520X10DB	52.9	72.9	75.9	127.9	127	0.9	6
5.2	20	□	MNS0520X20DB	104.9	127.9	130.9	182.9	182	0.9	6
5.2	30	□	MNS0520X30DB	156.9	182.9	185.9	237.9	237	0.9	6
5.3	5	●	MNS0530LB	27.5	45.0	45.0	101.0	100	1.0	6
5.3	10	□	MNS0530X10DB	54.0	73.0	76.0	128.0	127	1.0	6
5.3	20	□	MNS0530X20DB	107.0	128.0	131.0	183.0	182	1.0	6
5.3	30	□	MNS0530X30DB	160.0	183.0	186.0	238.0	237	1.0	6
5.4	5	●	MNS0540LB	28.0	45.0	45.0	101.0	100	1.0	6
5.4	10	□	MNS0540X10DB	55.0	73.0	76.0	128.0	127	1.0	6
5.4	20	□	MNS0540X20DB	109.0	128.0	131.0	183.0	182	1.0	6
5.4	30	□	MNS0540X30DB	163.0	183.0	186.0	238.0	237	1.0	6
5.5	5	●	MNS0550LB	28.5	45.0	45.0	101.0	100	1.0	6
5.5	10	●	MNS0550X10DB	56.0	73.0	76.0	128.0	127	1.0	6
5.5	20	●	MNS0550X20DB	111.0	128.0	131.0	183.0	182	1.0	6
5.5	30	●	MNS0550X30DB	166.0	183.0	186.0	238.0	237	1.0	6

DC (mm)	钻削孔深 (L/D)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
5.6	5	●	MNS0560LB	29.0	49.0	49.0	101.0	100	1.0	6
5.6	10	□	MNS0560X10DB	57.0	79.0	82.0	134.0	133	1.0	6
5.6	20	□	MNS0560X20DB	113.0	139.0	142.0	194.0	193	1.0	6
5.6	30	□	MNS0560X30DB	169.0	199.0	202.0	254.0	253	1.0	6
5.7	5	●	MNS0570LB	29.5	49.0	49.0	101.0	100	1.0	6
5.7	10	□	MNS0570X10DB	58.0	79.0	82.0	134.0	133	1.0	6
5.7	20	□	MNS0570X20DB	115.0	139.0	142.0	194.0	193	1.0	6
5.7	30	□	MNS0570X30DB	172.0	199.0	202.0	254.0	253	1.0	6
5.8	5	●	MNS0580LB	30.1	49.1	49.1	101.1	100	1.1	6
5.8	10	□	MNS0580X10DB	59.1	79.1	82.1	134.1	133	1.1	6
5.8	20	□	MNS0580X20DB	117.1	139.1	142.1	194.1	193	1.1	6
5.8	30	□	MNS0580X30DB	175.1	199.1	202.1	254.1	253	1.1	6
5.9	5	●	MNS0590LB	30.6	49.1	49.1	101.1	100	1.1	6
5.9	10	□	MNS0590X10DB	60.1	79.1	82.1	134.1	133	1.1	6
5.9	20	□	MNS0590X20DB	119.1	139.1	142.1	194.1	193	1.1	6
5.9	30	□	MNS0590X30DB	178.1	199.1	202.1	254.1	253	1.1	6
6.0	5	●	MNS0600LB	31.1	49.1	49.1	101.1	100	1.1	6
6.0	10	●	MNS0600X10DB	61.1	79.1	82.1	134.1	133	1.1	6
6.0	20	●	MNS0600X20DB	121.1	139.1	142.1	194.1	193	1.1	6
6.0	30	●	MNS0600X30DB	181.1	199.1	202.1	254.1	253	1.1	6
6.1	5	●	MNS0610LB	31.6	53.1	53.1	110.1	109	1.1	7
6.1	10	●	MNS0610X10DB	62.1	86.1	89.1	142.1	141	1.1	7
6.1	20	●	MNS0610X20DB	123.1	151.1	154.1	207.1	206	1.1	7
6.1	30	●	MNS0610X30DB	184.1	216.1	219.1	272.1	271	1.1	7
6.2	5	●	MNS0620LB	32.1	53.1	53.1	110.1	109	1.1	7
6.2	10	□	MNS0620X10DB	63.1	86.1	89.1	142.1	141	1.1	7
6.2	20	□	MNS0620X20DB	125.1	151.1	154.1	207.1	206	1.1	7
6.2	30	□	MNS0620X30DB	187.1	216.1	219.1	272.1	271	1.1	7
6.3	5	●	MNS0630LB	32.6	53.1	53.1	110.1	109	1.1	7
6.3	10	□	MNS0630X10DB	64.1	86.1	89.1	142.1	141	1.1	7
6.3	20	□	MNS0630X20DB	127.1	151.1	154.1	207.1	206	1.1	7
6.3	30	□	MNS0630X30DB	190.1	216.1	219.1	272.1	271	1.1	7
6.4	5	●	MNS0640LB	33.2	53.2	53.2	110.2	109	1.2	7
6.4	10	□	MNS0640X10DB	65.2	86.2	89.2	142.2	141	1.2	7
6.4	20	□	MNS0640X20DB	129.2	151.2	154.2	207.2	206	1.2	7
6.4	30	□	MNS0640X30DB	193.2	216.2	219.2	272.2	271	1.2	7
6.5	5	●	MNS0650LB	33.7	53.2	53.2	110.2	109	1.2	7
6.5	10	●	MNS0650X10DB	66.2	86.2	89.2	142.2	141	1.2	7
6.5	20	●	MNS0650X20DB	131.2	151.2	154.2	207.2	206	1.2	7
6.5	30	●	MNS0650X30DB	196.2	216.2	219.2	272.2	271	1.2	7
6.6	5	●	MNS0660LB	34.2	57.2	57.2	110.2	109	1.2	7
6.6	10	□	MNS0660X10DB	67.2	92.2	95.2	148.2	147	1.2	7
6.6	20	□	MNS0660X20DB	133.2	162.2	165.2	218.2	217	1.2	7
6.6	30	□	MNS0660X30DB	199.2	232.2	235.2	288.2	287	1.2	7
6.7	5	●	MNS0670LB	34.7	57.2	57.2	110.2	109	1.2	7
6.7	10	●	MNS0670X10DB	68.2	92.2	95.2	148.2	147	1.2	7
6.7	20	●	MNS0670X20DB	135.2	162.2	165.2	218.2	217	1.2	7
6.7	30	●	MNS0670X30DB	202.2	232.2	235.2	288.2	287	1.2	7

P

钻头

切削条件 > P081
使用要点 > P082
技术资料 > R001

MNS
WSTAR钻头

硬质合金

DC	钻削孔深 (mm)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
6.8	5	●	MNS0680LB	35.2	57.2	57.2	110.2	109	1.2	7
6.8	10	□	MNS0680X10DB	69.2	92.2	95.2	148.2	147	1.2	7
6.8	20	□	MNS0680X20DB	137.2	162.2	165.2	218.2	217	1.2	7
6.8	30	□	MNS0680X30DB	205.2	232.2	235.2	288.2	287	1.2	7
6.9	5	●	MNS0690LB	35.8	57.3	57.3	110.3	109	1.3	7
6.9	10	□	MNS0690X10DB	70.3	92.3	95.3	148.3	147	1.3	7
6.9	20	□	MNS0690X20DB	139.3	162.3	165.3	218.3	217	1.3	7
6.9	30	□	MNS0690X30DB	208.3	232.3	235.3	288.3	287	1.3	7
7.0	5	●	MNS0700LB	36.3	57.3	57.3	110.3	109	1.3	7
7.0	10	●	MNS0700X10DB	71.3	92.3	95.3	148.3	147	1.3	7
7.0	20	●	MNS0700X20DB	141.3	162.3	165.3	218.3	217	1.3	7
7.0	30	●	MNS0700X30DB	211.3	232.3	235.3	288.3	287	1.3	7
7.1	5	●	MNS0710LB	36.8	61.3	65.3	119.3	118	1.3	8
7.1	10	□	MNS0710X10DB	72.3	99.3	102.3	156.3	155	1.3	8
7.1	20	□	MNS0710X20DB	143.3	174.3	177.3	231.3	230	1.3	8
7.1	30	□	MNS0710X30DB	214.3	249.3	252.3	306.3	305	1.3	8
7.2	5	●	MNS0720LB	37.3	61.3	65.3	119.3	118	1.3	8
7.2	10	●	MNS0720X10DB	73.3	99.3	102.3	156.3	155	1.3	8
7.2	20	●	MNS0720X20DB	145.3	174.3	177.3	231.3	230	1.3	8
7.2	30	●	MNS0720X30DB	217.3	249.3	252.3	306.3	305	1.3	8
7.3	5	●	MNS0730LB	37.8	61.3	65.3	119.3	118	1.3	8
7.3	10	□	MNS0730X10DB	74.3	99.3	102.3	156.3	155	1.3	8
7.3	20	□	MNS0730X20DB	147.3	174.3	177.3	231.3	230	1.3	8
7.3	30	□	MNS0730X30DB	220.3	249.3	252.3	306.3	305	1.3	8
7.4	5	●	MNS0740LB	38.3	61.3	65.3	119.3	118	1.3	8
7.4	10	□	MNS0740X10DB	75.3	99.3	102.3	156.3	155	1.3	8
7.4	20	□	MNS0740X20DB	149.3	174.3	177.3	231.3	230	1.3	8
7.4	30	□	MNS0740X30DB	223.3	249.3	252.3	306.3	305	1.3	8
7.5	5	●	MNS0750LB	38.9	61.4	65.4	119.4	118	1.4	8
7.5	10	□	MNS0750X10DB	76.4	99.4	102.4	156.4	155	1.4	8
7.5	20	□	MNS0750X20DB	151.4	174.4	177.4	231.4	230	1.4	8
7.5	30	□	MNS0750X30DB	226.4	249.4	252.4	306.4	305	1.4	8
7.6	5	●	MNS0760LB	39.4	65.4	65.4	119.4	118	1.4	8
7.6	10	□	MNS0760X10DB	77.4	105.4	108.4	162.4	161	1.4	8
7.6	20	□	MNS0760X20DB	153.4	185.4	188.4	242.4	241	1.4	8
7.6	30	□	MNS0760X30DB	229.4	265.4	268.4	322.4	321	1.4	8
7.7	5	●	MNS0770LB	39.9	65.4	65.4	119.4	118	1.4	8
7.7	10	□	MNS0770X10DB	78.4	105.4	108.4	162.4	161	1.4	8
7.7	20	□	MNS0770X20DB	155.4	185.4	188.4	242.4	241	1.4	8
7.7	30	□	MNS0770X30DB	232.4	265.4	268.4	322.4	321	1.4	8
7.8	5	●	MNS0780LB	40.4	65.4	65.4	119.4	118	1.4	8
7.8	10	●	MNS0780X10DB	79.4	105.4	108.4	162.4	161	1.4	8
7.8	20	●	MNS0780X20DB	157.4	185.4	188.4	242.4	241	1.4	8
7.8	30	●	MNS0780X30DB	235.4	265.4	268.4	322.4	321	1.4	8
7.9	5	●	MNS0790LB	40.9	65.4	65.4	119.4	118	1.4	8
7.9	10	□	MNS0790X10DB	80.4	105.4	108.4	162.4	161	1.4	8
7.9	20	□	MNS0790X20DB	159.4	185.4	188.4	242.4	241	1.4	8
7.9	30	□	MNS0790X30DB	238.4	265.4	268.4	322.4	321	1.4	8

DC	钻削孔深 (mm)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
8.0	5	●	MNS0800LB	41.5	65.5	65.5	119.5	118	1.5	8
8.0	10	●	MNS0800X10DB	81.5	105.5	108.5	162.5	161	1.5	8
8.0	20	●	MNS0800X20DB	161.5	185.5	188.5	242.5	241	1.5	8
8.0	30	●	MNS0800X30DB	241.5	265.5	268.5	322.5	321	1.5	8
8.1	5	●	MNS0810LB	42.0	69.5	73.5	128.5	127	1.5	9
8.1	10	□	MNS0810X10DB	82.5	112.5	115.5	170.5	169	1.5	9
8.1	20	□	MNS0810X20DB	163.5	197.5	200.5	255.5	254	1.5	9
8.1	30	□	MNS0810X30DB	244.5	282.5	285.5	340.5	339	1.5	9
8.2	5	●	MNS0820LB	42.5	69.5	73.5	128.5	127	1.5	9
8.2	10	□	MNS0820X10DB	83.5	112.5	115.5	170.5	169	1.5	9
8.2	20	□	MNS0820X20DB	165.5	197.5	200.5	255.5	254	1.5	9
8.2	30	□	MNS0820X30DB	247.5	282.5	285.5	340.5	339	1.5	9
8.3	5	●	MNS0830LB	43.0	69.5	73.5	128.5	127	1.5	9
8.3	10	□	MNS0830X10DB	84.5	112.5	115.5	170.5	169	1.5	9
8.3	20	□	MNS0830X20DB	167.5	197.5	200.5	255.5	254	1.5	9
8.3	30	□	MNS0830X30DB	250.5	282.5	285.5	340.5	339	1.5	9
8.4	5	●	MNS0840LB	43.5	69.5	73.5	128.5	127	1.5	9
8.4	10	□	MNS0840X10DB	85.5	112.5	115.5	170.5	169	1.5	9
8.4	20	□	MNS0840X20DB	169.5	197.5	200.5	255.5	254	1.5	9
8.4	30	□	MNS0840X30DB	253.5	282.5	285.5	340.5	339	1.5	9
8.5	5	●	MNS0850LB	44.0	69.5	73.5	128.5	127	1.5	9
8.5	10	□	MNS0850X10DB	86.5	112.5	115.5	170.5	169	1.5	9
8.5	20	□	MNS0850X20DB	171.5	197.5	200.5	255.5	254	1.5	9
8.5	30	□	MNS0850X30DB	256.5	282.5	285.5	340.5	339	1.5	9
8.6	5	●	MNS0860LB	44.6	73.6	73.6	128.6	127	1.6	9
8.6	10	□	MNS0860X10DB	87.6	118.6	121.6	176.6	175	1.6	9
8.6	20	□	MNS0860X20DB	173.6	208.6	211.6	266.6	265	1.6	9
8.6	30	□	MNS0860X30DB	259.6	298.6	301.6	356.6	355	1.6	9
8.7	5	●	MNS0870LB	45.1	73.6	73.6	128.6	127	1.6	9
8.7	10	□	MNS0870X10DB	88.6	118.6	121.6	176.6	175	1.6	9
8.7	20	□	MNS0870X20DB	175.6	208.6	211.6	266.6	265	1.6	9
8.7	30	□	MNS0870X30DB	262.6	298.6	301.6	356.6	355	1.6	9
8.8	5	●	MNS0880LB	45.6	73.6	73.6	128.6	127	1.6	9
8.8	10	□	MNS0880X10DB	89.6	118.6	121.6	176.6	175	1.6	9
8.8	20	□	MNS0880X20DB	177.6	208.6	211.6	266.6	265	1.6	9
8.8	30	□	MNS0880X30DB	265.6	298.6	301.6	356.6	355	1.6	9
8.9	5	●	MNS0890LB	46.1	73.6	73.6	128.6	127	1.6	9
8.9	10	□	MNS0890X10DB	90.6	118.6	121.6	176.6	175	1.6	9
8.9	20	□	MNS0890X20DB	179.6	208.6	211.6	266.6	265	1.6	9
8.9	30	□	MNS0890X30DB	268.6	298.6	301.6	356.6	355	1.6	9
9.0	5	●	MNS0900LB	46.6	73.6	73.6	128.6	127	1.6	9
9.0	10	●	MNS0900X10DB	91.6	118.6	121.6	176.6	175	1.6	9
9.0	20	●	MNS0900X20DB	181.6	208.6	211.6	266.6	265	1.6	9
9.0	30	●	MNS0900X30DB	271.6	298.6	301.6	356.6	355	1.6	9
9.1	5	●	MNS0910LB	47.2	77.7	81.7	137.7	136	1.7	10
9.1	10	□	MNS0910X10DB	92.7	125.7	128.7	183.7	182	1.7	10
9.1	20	□	MNS0910X20DB	183.7	220.7	223.7	278.7	277	1.7	10
9.1	30	□	MNS0910X30DB	274.7	315.7	318.7	373.7	372	1.7	10

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
9.2	5	●	MNS0920LB	47.7	77.7	81.7	137.7	136	1.7	10
9.2	10	□	MNS0920X10DB	93.7	125.7	128.7	183.7	182	1.7	10
9.2	20	□	MNS0920X20DB	185.7	220.7	223.7	278.7	277	1.7	10
9.2	30	□	MNS0920X30DB	277.7	315.7	318.7	373.7	372	1.7	10
9.3	5	●	MNS0930LB	48.2	77.7	81.7	137.7	136	1.7	10
9.3	10	□	MNS0930X10DB	94.7	125.7	128.7	183.7	182	1.7	10
9.3	20	□	MNS0930X20DB	187.7	220.7	223.7	278.7	277	1.7	10
9.3	30	□	MNS0930X30DB	280.7	315.7	318.7	373.7	372	1.7	10
9.4	5	●	MNS0940LB	48.7	77.7	81.7	137.7	136	1.7	10
9.4	10	□	MNS0940X10DB	95.7	125.7	128.7	183.7	182	1.7	10
9.4	20	□	MNS0940X20DB	189.7	220.7	223.7	278.7	277	1.7	10
9.4	30	□	MNS0940X30DB	283.7	315.7	318.7	373.7	372	1.7	10
9.5	5	●	MNS0950LB	49.2	77.7	81.7	137.7	136	1.7	10
9.5	10	□	MNS0950X10DB	96.7	125.7	128.7	183.7	182	1.7	10
9.5	20	□	MNS0950X20DB	191.7	220.7	223.7	278.7	277	1.7	10
9.5	30	□	MNS0950X30DB	286.7	315.7	318.7	373.7	372	1.7	10
9.6	5	●	MNS0960LB	49.7	81.7	81.7	137.7	136	1.7	10
9.6	10	□	MNS0960X10DB	97.7	131.7	134.7	189.7	188	1.7	10
9.6	20	□	MNS0960X20DB	193.7	231.7	234.7	289.7	288	1.7	10
9.6	30	□	MNS0960X30DB	289.7	331.7	334.7	389.7	388	1.7	10
9.7	5	●	MNS0970LB	50.3	81.8	81.8	137.8	136	1.8	10
9.7	10	□	MNS0970X10DB	98.8	131.8	134.8	189.8	188	1.8	10
9.7	20	□	MNS0970X20DB	195.8	231.8	234.8	289.8	288	1.8	10
9.7	30	□	MNS0970X30DB	292.8	331.8	334.8	389.8	388	1.8	10
9.8	5	●	MNS0980LB	50.8	81.8	81.8	137.8	136	1.8	10
9.8	10	●	MNS0980X10DB	99.8	131.8	134.8	189.8	188	1.8	10
9.8	20	●	MNS0980X20DB	197.8	231.8	234.8	289.8	288	1.8	10
9.8	30	●	MNS0980X30DB	295.8	331.8	334.8	389.8	388	1.8	10
9.9	5	●	MNS0990LB	51.3	81.8	81.8	137.8	136	1.8	10
9.9	10	□	MNS0990X10DB	100.8	131.8	134.8	189.8	188	1.8	10
9.9	20	□	MNS0990X20DB	199.8	231.8	234.8	289.8	288	1.8	10
9.9	30	□	MNS0990X30DB	298.8	331.8	334.8	389.8	388	1.8	10
10.0	5	●	MNS1000LB	51.8	81.8	81.8	137.8	136	1.8	10
10.0	10	●	MNS1000X10DB	101.8	131.8	134.8	189.8	188	1.8	10
10.0	20	●	MNS1000X20DB	201.8	231.8	234.8	289.8	288	1.8	10
10.0	30	●	MNS1000X30DB	301.8	331.8	334.8	389.8	388	1.8	10
10.1	5	●	MNS1010LB	52.3	85.8	89.8	150.8	149	1.8	11
10.1	10	□	MNS1010X10DB	102.8	138.8	141.8	202.8	201	1.8	11
10.1	20	□	MNS1010X20DB	203.8	243.8	246.8	307.8	306	1.8	11
10.2	5	●	MNS1020LB	52.9	85.9	89.9	150.9	149	1.9	11
10.2	10	□	MNS1020X10DB	103.9	138.9	141.9	202.9	201	1.9	11
10.2	20	□	MNS1020X20DB	205.9	243.9	246.9	307.9	306	1.9	11
10.3	5	●	MNS1030LB	53.4	85.9	89.9	150.9	149	1.9	11
10.3	10	□	MNS1030X10DB	104.9	138.9	141.9	202.9	201	1.9	11
10.3	20	□	MNS1030X20DB	207.9	243.9	246.9	307.9	306	1.9	11
10.4	5	●	MNS1040LB	53.9	85.9	89.9	150.9	149	1.9	11
10.4	10	□	MNS1040X10DB	105.9	138.9	141.9	202.9	201	1.9	11
10.4	20	□	MNS1040X20DB	209.9	243.9	246.9	307.9	306	1.9	11

DC (mm)	钻削孔深 (L/D)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
10.5	5	●	MNS1050LB	54.4	85.9	89.9	150.9	149	1.9	11
10.5	10	●	MNS1050X10DB	106.9	138.9	141.9	202.9	201	1.9	11
10.5	20	●	MNS1050X20DB	211.9	243.9	246.9	307.9	306	1.9	11
10.6	5	●	MNS1060LB	54.9	89.9	89.9	150.9	149	1.9	11
10.6	10	□	MNS1060X10DB	107.9	144.9	147.9	208.9	207	1.9	11
10.6	20	□	MNS1060X20DB	213.9	254.9	257.9	318.9	317	1.9	11
10.7	5	●	MNS1070LB	55.4	89.9	89.9	150.9	149	1.9	11
10.7	10	□	MNS1070X10DB	108.9	144.9	147.9	208.9	207	1.9	11
10.7	20	□	MNS1070X20DB	215.9	254.9	257.9	318.9	317	1.9	11
10.8	5	●	MNS1080LB	56.0	90.0	90.0	151.0	149	2.0	11
10.8	10	□	MNS1080X10DB	110.0	145.0	148.0	209.0	207	2.0	11
10.8	20	□	MNS1080X20DB	218.0	255.0	258.0	319.0	317	2.0	11
10.9	5	●	MNS1090LB	56.5	90.0	90.0	151.0	149	2.0	11
10.9	10	□	MNS1090X10DB	111.0	145.0	148.0	209.0	207	2.0	11
10.9	20	□	MNS1090X20DB	220.0	255.0	258.0	319.0	317	2.0	11
11.0	5	●	MNS1100LB	57.0	90.0	90.0	151.0	149	2.0	11
11.0	10	●	MNS1100X10DB	112.0	145.0	148.0	209.0	207	2.0	11
11.0	20	●	MNS1100X20DB	222.0	255.0	258.0	319.0	317	2.0	11
11.1	5	●	MNS1110LB	57.5	94.0	98.0	160.0	158	2.0	12
11.1	10	□	MNS1110X10DB	113.0	152.0	155.0	217.0	215	2.0	12
11.1	20	□	MNS1110X20DB	224.0	267.0	270.0	332.0	330	2.0	12
11.2	5	●	MNS1120LB	58.0	94.0	98.0	160.0	158	2.0	12
11.2	10	□	MNS1120X10DB	114.0	152.0	155.0	217.0	215	2.0	12
11.2	20	□	MNS1120X20DB	226.0	267.0	270.0	332.0	330	2.0	12
11.3	5	●	MNS1130LB	58.6	94.1	98.1	160.1	158	2.1	12
11.3	10	□	MNS1130X10DB	115.1	152.1	155.1	217.1	215	2.1	12
11.3	20	□	MNS1130X20DB	228.1	267.1	270.1	332.1	330	2.1	12
11.4	5	●	MNS1140LB	59.1	94.1	98.1	160.1	158	2.1	12
11.4	10	□	MNS1140X10DB	116.1	152.1	155.1	217.1	215	2.1	12
11.4	20	□	MNS1140X20DB	230.1	267.1	270.1	332.1	330	2.1	12
11.5	5	●	MNS1150LB	59.6	94.1	98.1	160.1	158	2.1	12
11.5	10	□	MNS1150X10DB	117.1	152.1	155.1	217.1	215	2.1	12
11.5	20	□	MNS1150X20DB	232.1	267.1	270.1	332.1	330	2.1	12
11.6	5	●	MNS1160LB	60.1	98.1	98.1	160.1	158	2.1	12
11.6	10	□	MNS1160X10DB	118.1	158.1	161.1	223.1	221	2.1	12
11.6	20	□	MNS1160X20DB	234.1	278.1	281.1	343.1	341	2.1	12
11.7	5	●	MNS1170LB	60.6	98.1	98.1	160.1	158	2.1	12
11.7	10	□	MNS1170X10DB	119.1	158.1	161.1	223.1	221	2.1	12
11.7	20	□	MNS1170X20DB	236.1	278.1	281.1	343.1	341	2.1	12
11.8	5	●	MNS1180LB	61.1	98.1	98.1	160.1	158	2.1	12
11.8	10	□	MNS1180X10DB	120.1	158.1	161.1	223.1	221	2.1	12
11.8	20	□	MNS1180X20DB	238.1	278.1	281.1	343.1	341	2.1	12
11.9	5	●	MNS1190LB	61.7	98.2	98.2	160.2	158	2.2	12
11.9	10	□	MNS1190X10DB	121.2	158.2	161.2	223.2	221	2.2	12
11.9	20	□	MNS1190X20DB	240.2	278.2	281.2	343.2	341	2.2	12
12.0	5	●	MNS1200LB	62.2	98.2	98.2	160.2	158	2.2	12
12.0	10	●	MNS1200X10DB	122.2	158.2	161.2	223.2	221	2.2	12
12.0	20	●	MNS1200X20DB	242.2	278.2	281.2	343.2	341	2.2	12

P

钻头

切削条件 > P081
使用要点 > P082
技术资料 > R001

MNS
WSTAR钻头

硬质合金

DC	钻削孔深 (mm)(L/D)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
12.1	5	●	MNS1210LB	62.7	102.2	106.2	169.2	167	2.2	13
12.1	10	□	MNS1210X10DB	123.2	165.2	168.2	231.2	229	2.2	13
12.1	20	□	MNS1210X20DB	244.2	290.2	293.2	356.2	354	2.2	13
12.2	5	●	MNS1220LB	63.2	102.2	106.2	169.2	167	2.2	13
12.2	10	□	MNS1220X10DB	124.2	165.2	168.2	231.2	229	2.2	13
12.2	20	□	MNS1220X20DB	246.2	290.2	293.2	356.2	354	2.2	13
12.3	5	●	MNS1230LB	63.7	102.2	106.2	169.2	167	2.2	13
12.3	10	□	MNS1230X10DB	125.2	165.2	168.2	231.2	229	2.2	13
12.3	20	□	MNS1230X20DB	248.2	290.2	293.2	356.2	354	2.2	13
12.4	5	●	MNS1240LB	64.3	102.3	106.3	169.3	167	2.3	13
12.4	10	□	MNS1240X10DB	126.3	165.3	168.3	231.3	229	2.3	13
12.4	20	□	MNS1240X20DB	250.3	290.3	293.3	356.3	354	2.3	13
12.5	5	●	MNS1250LB	64.8	102.3	106.3	169.3	167	2.3	13
12.5	10	□	MNS1250X10DB	127.3	165.3	168.3	231.3	229	2.3	13
12.5	20	□	MNS1250X20DB	252.3	290.3	293.3	356.3	354	2.3	13
12.6	5	●	MNS1260LB	65.3	106.3	106.3	169.3	167	2.3	13
12.6	10	□	MNS1260X10DB	128.3	171.3	174.3	237.3	235	2.3	13
12.6	20	□	MNS1260X20DB	254.3	301.3	304.3	367.3	365	2.3	13
12.7	5	●	MNS1270LB	65.8	106.3	106.3	169.3	167	2.3	13
12.7	10	□	MNS1270X10DB	129.3	171.3	174.3	237.3	235	2.3	13
12.7	20	□	MNS1270X20DB	256.3	301.3	304.3	367.3	365	2.3	13
12.8	5	●	MNS1280LB	66.3	106.3	106.3	169.3	167	2.3	13
12.8	10	□	MNS1280X10DB	130.3	171.3	174.3	237.3	235	2.3	13
12.8	20	□	MNS1280X20DB	258.3	301.3	304.3	367.3	365	2.3	13
12.9	5	●	MNS1290LB	66.8	106.3	106.3	169.3	167	2.3	13
12.9	10	□	MNS1290X10DB	131.3	171.3	174.3	237.3	235	2.3	13
12.9	20	□	MNS1290X20DB	260.3	301.3	304.3	367.3	365	2.3	13
13.0	5	●	MNS1300LB	67.4	106.4	106.4	169.4	167	2.4	13
13.0	10	●	MNS1300X10DB	132.4	171.4	174.4	237.4	235	2.4	13
13.0	20	●	MNS1300X20DB	262.4	301.4	304.4	367.4	365	2.4	13

DC	钻削孔深 (mm)(L/D)	TF/5	型号	尺寸 (mm)						
				LU	LCF	LH	OAL	LF	PL	DCON
13.1	5	●	MNS1310LB	67.9	110.4	114.4	178.4	176	2.4	14
13.1	10	□	MNS1310X10DB	133.4	178.4	181.4	245.4	243	2.4	14
13.1	20	□	MNS1310X20DB	264.4	313.4	316.4	380.4	378	2.4	14
13.2	5	●	MNS1320LB	68.4	110.4	114.4	178.4	176	2.4	14
13.2	10	□	MNS1320X10DB	134.4	178.4	181.4	245.4	243	2.4	14
13.2	20	□	MNS1320X20DB	266.4	313.4	316.4	380.4	378	2.4	14
13.3	5	●	MNS1330LB	68.9	110.4	114.4	178.4	176	2.4	14
13.3	10	□	MNS1330X10DB	135.4	178.4	181.4	245.4	243	2.4	14
13.3	20	□	MNS1330X20DB	268.4	313.4	316.4	380.4	378	2.4	14
13.4	5	●	MNS1340LB	69.4	110.4	114.4	178.4	176	2.4	14
13.4	10	□	MNS1340X10DB	136.4	178.4	181.4	245.4	243	2.4	14
13.4	20	□	MNS1340X20DB	270.4	313.4	316.4	380.4	378	2.4	14
13.5	5	●	MNS1350LB	70.0	110.5	114.5	178.5	176	2.5	14
13.5	10	□	MNS1350X10DB	137.5	178.5	181.5	245.5	243	2.5	14
13.5	20	□	MNS1350X20DB	272.5	313.5	316.5	380.5	378	2.5	14
13.6	5	●	MNS1360LB	70.5	114.5	114.5	178.5	176	2.5	14
13.6	10	□	MNS1360X10DB	138.5	184.5	187.5	251.5	249	2.5	14
13.6	20	□	MNS1360X20DB	274.5	324.5	327.5	391.5	389	2.5	14
13.7	5	●	MNS1370LB	71.0	114.5	114.5	178.5	176	2.5	14
13.7	10	□	MNS1370X10DB	139.5	184.5	187.5	251.5	249	2.5	14
13.7	20	□	MNS1370X20DB	276.5	324.5	327.5	391.5	389	2.5	14
13.8	5	●	MNS1380LB	71.5	114.5	114.5	178.5	176	2.5	14
13.8	10	□	MNS1380X10DB	140.5	184.5	187.5	251.5	249	2.5	14
13.8	20	□	MNS1380X20DB	278.5	324.5	327.5	391.5	389	2.5	14
13.9	5	●	MNS1390LB	72.0	114.5	114.5	178.5	176	2.5	14
13.9	10	□	MNS1390X10DB	141.5	184.5	187.5	251.5	249	2.5	14
13.9	20	□	MNS1390X20DB	280.5	324.5	327.5	391.5	389	2.5	14
14.0	5	●	MNS1400LB	72.5	114.5	114.5	178.5	176	2.5	14
14.0	10	●	MNS1400X10DB	142.5	184.5	187.5	251.5	249	2.5	14
14.0	20	●	MNS1400X20DB	282.5	324.5	327.5	391.5	389	2.5	14

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

P

钻头

推荐切削条件

■ LB型钻头

工件材料	铝合金 (Si<5%)		铝合金 (5%≤Si≤10%)		铝合金 (Si>10%)	
	A6061、A7075等		AC4B等		ADC12、A390等	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)
3.2	11900	0.1 (0.11—0.16)	11900	0.15 (0.16—0.21)	11900	0.15 (0.16—0.21)
4.0	9500	0.15 (0.13—0.20)	9500	0.2 (0.20—0.27)	9500	0.2 (0.20—0.27)
5.0	7600	0.2 (0.17—0.25)	7600	0.25 (0.25—0.33)	7600	0.25 (0.25—0.33)
6.3	7500	0.25 (0.21—0.32)	7500	0.35 (0.32—0.42)	7500	0.35 (0.32—0.42)
8.0	5900	0.3 (0.27—0.40)	5900	0.45 (0.40—0.53)	5900	0.45 (0.40—0.53)
10.0	4700	0.4 (0.33—0.50)	4700	0.55 (0.50—0.67)	4700	0.55 (0.50—0.67)
12.0	5300	0.5 (0.40—0.60)	5300	0.7 (0.60—0.80)	5300	0.7 (0.60—0.80)
14.0	4500	0.5 (0.40—0.60)	4500	0.7 (0.60—0.80)	4500	0.7 (0.60—0.80)

注1) 使用L/D10以上的钻头时,需要事先加工导孔。(离心力的作用可能会使刀具转动时产生振摆,引发折损。)

注2) 导孔加工推荐使用MNS...LB或超级辊光钻头(MAE...MB, MAS...MB)。

■ DB型钻头

工件材料	铝合金 (Si<5%)		铝合金 (5%≤Si≤10%)		铝合金 (Si>10%)	
	A6061、A7075等		AC4B等		ADC12、A390等	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)
3.2	8900	0.1 (0.11—0.16)	8900	0.15 (0.16—0.21)	8900	0.15 (0.16—0.21)
4.0	7100	0.15 (0.13—0.20)	7100	0.2 (0.20—0.27)	7100	0.2 (0.20—0.27)
5.0	5700	0.2 (0.17—0.25)	5700	0.25 (0.25—0.33)	5700	0.25 (0.25—0.33)
6.3	6000	0.25 (0.21—0.32)	6000	0.35 (0.32—0.42)	6000	0.35 (0.32—0.42)
8.0	4700	0.3 (0.27—0.40)	4700	0.45 (0.40—0.53)	4700	0.45 (0.40—0.53)
10.0	3800	0.4 (0.33—0.50)	3800	0.55 (0.50—0.67)	3800	0.55 (0.50—0.67)
12.0	4200	0.5 (0.40—0.60)	4200	0.7 (0.60—0.80)	4200	0.7 (0.60—0.80)
14.0	3600	0.5 (0.40—0.60)	3600	0.7 (0.60—0.80)	3600	0.7 (0.60—0.80)

注1) 使用L/D10以上的钻头时,需要事先加工导孔。(离心力的作用可能会使刀具转动时产生振摆,引发折损。)

注2) 导孔加工推荐使用MNS...LB或超级辊光钻头(MAE...MB, MAS...MB)。

■ MNS...DB钻头的高级使用方法

加工部位为平面的加工 ●加工盲孔时

■ 1. 导孔加工



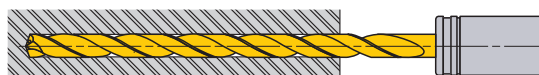
- ①导孔加工用钻头的顶角角度需大于长钻头的140°顶角。
- ②确保良好的导孔精度(圆度)。
- ③孔深DC×1~2左右即可。(请根据长钻头的长度调整导孔深度。)

■ 2. 深孔加工 (插进导孔内)



- ①请在低转速条件下插进导孔内。(切削速度20~30m/min、进给量0.2~0.3mm/rev左右)
- ②插至距导孔底部1~3mm左右的位置。(确保切削刃肩部全部插入)

■ 3. 深孔加工 (加工开始、结束)



- ①开始旋转、进给加工(非步进加工)

■ 4. 深孔加工 (退回)



- ①加工结束后,在距孔底1~2mm的位置降低转速。(切削速度20~30m/min左右)
- ②将钻头以3000mm/min的进给速度退回到开始加工的位置。
- ③以与插进导孔时同样的条件退出。

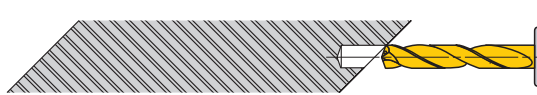
包含断续的加工情况 ●加工部位为倾斜面或异形时。钻通部位为倾斜面或异形时。

■ 1. 铤孔加工



- ①在为倾斜面加工深孔时,推荐MFE钻头作为立铣刀或用于加工导孔的钻头使用。
- ②确保良好的导孔精度(圆度)。
- ③孔深DC×1左右即可。

■ 2. 导孔加工



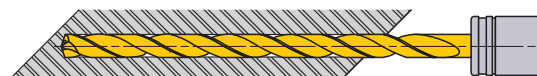
- ①导孔加工用钻头的顶角角度需大于长钻头的140°顶角。
- ②确保良好的导孔精度(圆度)。
- ③孔深DC×1~2左右即可。(请根据长钻头的长度调整导孔深度。)

■ 3. 深孔加工 (插进导孔内)



- ①请在低转速条件下插进导孔内。(切削速度20~30m/min、进给量0.2~0.3mm/rev左右)
- ②插至距导孔底部1~3mm左右的位置。

■ 4. 深孔加工 (加工开始、钻通前)



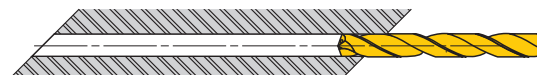
- ①开始旋转、进给加工(非步进加工)
- ②钻通前用通常的进给速度。

■ 5. 深孔加工 (钻通时的断续切削)



- ①钻通时的断续切削易损伤切削刃。
- ②钻通时的进给量推荐为0.05~0.1mm/rev。

■ 6. 深孔加工 (退回)



- ①将钻头以3000mm/min的进给速度退回到开始加工的位置。
- ②钻通后请降低转速。(切削速度20~30m/min左右)

MAS

超级辊光钻头

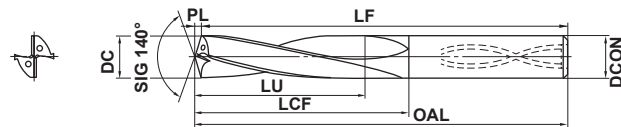
- 专门用于钻削铝、铸铁
- 孔加工精度高
- 也可用于轧制丝锥螺纹底孔
- 带螺旋油孔可用于高速钻削



硬质合金

P	M	K	N	S	H
		铸铁	有色金属		

内冷却



DC=3	3<DC≤6	6<DC≤10	10<DC≤16
+0.005 0	+0.005 0	+0.005 0	+0.005 0
DCON=3	3<DCON≤6	6<DCON≤10	10<DCON≤16
0 -0.006	0 -0.008	0 -0.009	0 -0.011



- 注1) MAS ϕ 5.0以上端面带油槽(刀柄端面有储油小凹槽)。
注2) MAS型全部产品均可用于热缩式刀柄。

DC (mm)	钻削孔深 (L/D)	HT10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
3.0	3	□	MAS0300MB	9.5	21.5	61.5	61	0.5	3
3.0	6	●	MAS0300LB	18.5	30.5	70.5	70	0.5	3
3.1	3	□	MAS0310MB	9.9	24.6	64.6	64	0.6	4
3.1	6	●	MAS0310LB	19.2	34.6	74.6	74	0.6	4
3.2	3	□	MAS0320MB	10.2	24.6	64.6	64	0.6	4
3.2	6	●	MAS0320LB	19.8	34.6	74.6	74	0.6	4
3.3	3	□	MAS0330MB	10.5	24.6	64.6	64	0.6	4
3.3	6	●	MAS0330LB	20.4	34.6	74.6	74	0.6	4
3.4	3	□	MAS0340MB	10.8	24.6	64.6	64	0.6	4
3.4	6	●	MAS0340LB	21.0	34.6	74.6	74	0.6	4
3.5	3	□	MAS0350MB	11.1	24.6	64.6	64	0.6	4
3.5	6	●	MAS0350LB	21.6	34.6	74.6	74	0.6	4
3.6	3	□	MAS0360MB	11.5	28.7	68.7	68	0.7	4
3.6	6	●	MAS0360LB	22.3	40.7	80.7	80	0.7	4
3.65	3	□	* MAS0365MB	11.7	28.7	68.7	68	0.7	4
3.65	6	●	* MAS0365LB	22.6	40.7	80.7	80	0.7	4
3.7	3	□	MAS0370MB	11.8	28.7	68.7	68	0.7	4
3.7	6	●	MAS0370LB	22.9	40.7	80.7	80	0.7	4
3.8	3	□	MAS0380MB	12.1	28.7	68.7	68	0.7	4
3.8	6	●	MAS0380LB	23.5	40.7	80.7	80	0.7	4
3.9	3	□	MAS0390MB	12.4	28.7	68.7	68	0.7	4
3.9	6	●	MAS0390LB	24.1	40.7	80.7	80	0.7	4
4.0	3	□	MAS0400MB	12.7	28.7	68.7	68	0.7	4
4.0	6	●	MAS0400LB	24.7	40.7	80.7	80	0.7	4
4.1	3	□	MAS0410MB	13.0	31.7	71.7	71	0.7	5
4.1	6	●	MAS0410LB	25.3	44.7	84.7	84	0.7	5
4.2	3	□	MAS0420MB	13.4	31.8	71.8	71	0.8	5
4.2	6	●	MAS0420LB	26.0	44.8	84.8	84	0.8	5
4.3	3	□	MAS0430MB	13.7	31.8	71.8	71	0.8	5
4.3	6	●	MAS0430LB	26.6	44.8	84.8	84	0.8	5
4.4	3	□	MAS0440MB	14.0	31.8	71.8	71	0.8	5
4.4	6	●	MAS0440LB	27.2	44.8	84.8	84	0.8	5

*表示用于轧制丝锥底孔。

DC (mm)	钻削孔深 (L/D)	HT10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
4.5	3	□	MAS0450MB	14.3	31.8	71.8	71	0.8	5
4.5	6	●	MAS0450LB	27.8	44.8	84.8	84	0.8	5
4.6	3	□	* MAS0460MB	14.6	33.8	73.8	73	0.8	5
4.6	6	●	* MAS0460LB	28.4	48.8	88.8	88	0.8	5
4.7	3	□	MAS0470MB	15.0	33.9	73.9	73	0.9	5
4.7	6	●	MAS0470LB	29.1	48.9	88.9	88	0.9	5
4.8	3	□	MAS0480MB	15.3	33.9	73.9	73	0.9	5
4.8	6	●	MAS0480LB	29.7	48.9	88.9	88	0.9	5
4.9	3	□	MAS0490MB	15.6	33.9	73.9	73	0.9	5
4.9	6	●	MAS0490LB	30.3	48.9	88.9	88	0.9	5
5.0	3	●	MAS0500MB	15.9	33.9	73.9	73	0.9	5
5.0	6	●	MAS0500LB	30.9	48.9	88.9	88	0.9	5
5.1	3	□	MAS0510MB	16.2	36.9	76.9	76	0.9	6
5.1	6	●	MAS0510LB	31.5	52.9	92.9	92	0.9	6
5.2	3	□	MAS0520MB	16.5	36.9	76.9	76	0.9	6
5.2	6	●	MAS0520LB	32.1	52.9	92.9	92	0.9	6
5.3	3	□	MAS0530MB	16.9	37.0	77.0	76	1.0	6
5.3	6	●	MAS0530LB	32.8	53.0	93.0	92	1.0	6
5.4	3	□	MAS0540MB	17.2	37.0	77.0	76	1.0	6
5.4	6	●	MAS0540LB	33.4	53.0	93.0	92	1.0	6
5.5	3	●	* MAS0550MB	17.5	37.0	77.0	76	1.0	6
5.5	6	●	* MAS0550LB	34.0	53.0	93.0	92	1.0	6
5.6	3	□	MAS0560MB	17.8	40.0	80.0	79	1.0	6
5.6	6	●	MAS0560LB	34.6	58.0	98.0	97	1.0	6
5.7	3	□	MAS0570MB	18.1	40.0	80.0	79	1.0	6
5.7	6	●	MAS0570LB	35.2	58.0	98.0	97	1.0	6
5.8	3	□	MAS0580MB	18.5	40.1	80.1	79	1.1	6
5.8	6	●	MAS0580LB	35.9	58.1	98.1	97	1.1	6
5.9	3	□	MAS0590MB	18.8	40.1	80.1	79	1.1	6
5.9	6	●	MAS0590LB	36.5	58.1	98.1	97	1.1	6
6.0	3	●	MAS0600MB	19.1	40.1	80.1	79	1.1	6
6.0	6	●	MAS0600LB	37.1	58.1	98.1	97	1.1	6

P

钻头

●：标准库存品 □：预订生产品

切削条件 > P089
技术资料 > R001

P083

DC (mm)	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
6.1	3	□	MAS0610MB	19.4	43.1	85.1	84	1.1	7
6.1	6	●	MAS0610LB	37.7	63.1	105.1	104	1.1	7
6.2	3	□	MAS0620MB	19.7	43.1	85.1	84	1.1	7
6.2	6	●	MAS0620LB	38.3	63.1	105.1	104	1.1	7
6.3	3	□	MAS0630MB	20.0	43.1	85.1	84	1.1	7
6.3	6	●	MAS0630LB	38.9	63.1	105.1	104	1.1	7
6.4	3	□	MAS0640MB	20.4	43.2	85.2	84	1.2	7
6.4	6	●	MAS0640LB	39.6	63.2	105.2	104	1.2	7
6.5	3	●	MAS0650MB	20.7	43.2	85.2	84	1.2	7
6.5	6	●	MAS0650LB	40.2	63.2	105.2	104	1.2	7
6.6	3	□	MAS0660MB	21.0	43.2	85.2	84	1.2	7
6.6	6	●	MAS0660LB	40.8	66.2	108.2	107	1.2	7
6.7	3	□	MAS0670MB	21.3	43.2	85.2	84	1.2	7
6.7	6	●	MAS0670LB	41.4	66.2	108.2	107	1.2	7
6.8	3	●	MAS0680MB	21.6	43.2	85.2	84	1.2	7
6.8	6	●	MAS0680LB	42.0	66.2	108.2	107	1.2	7
6.9	3	□	MAS0690MB	22.0	43.3	85.3	84	1.3	7
6.9	6	●	MAS0690LB	42.7	66.3	108.3	107	1.3	7
7.0	3	●	MAS0700MB	22.3	43.3	85.3	84	1.3	7
7.0	6	●	MAS0700LB	43.3	66.3	108.3	107	1.3	7
7.1	3	□	MAS0710MB	22.6	49.3	91.3	90	1.3	8
7.1	6	●	MAS0710LB	43.9	69.3	111.3	110	1.3	8
7.2	3	□	MAS0720MB	22.9	49.3	91.3	90	1.3	8
7.2	6	●	MAS0720LB	44.5	69.3	111.3	110	1.3	8
7.3	3	□	MAS0730MB	23.2	49.3	91.3	90	1.3	8
7.3	6	●	MAS0730LB	45.1	69.3	111.3	110	1.3	8
7.35	3	● *	MAS0735MB	23.4	49.3	91.3	90	1.3	8
7.35	6	● *	MAS0735LB	45.4	69.3	111.3	110	1.3	8
7.4	3	□	MAS0740MB	23.5	49.3	91.3	90	1.3	8
7.4	6	●	MAS0740LB	45.7	69.3	111.3	110	1.3	8
7.5	3	□	MAS0750MB	23.9	49.4	91.4	90	1.4	8
7.5	6	●	MAS0750LB	46.4	69.4	111.4	110	1.4	8
7.6	3	□	MAS0760MB	24.2	49.4	91.4	90	1.4	8
7.6	6	●	MAS0760LB	47.0	73.4	115.4	114	1.4	8
7.7	3	□	MAS0770MB	24.5	49.4	91.4	90	1.4	8
7.7	6	●	MAS0770LB	47.6	73.4	115.4	114	1.4	8
7.8	3	□	MAS0780MB	24.8	49.4	91.4	90	1.4	8
7.8	6	●	MAS0780LB	48.2	73.4	115.4	114	1.4	8
7.9	3	□	MAS0790MB	25.1	49.4	91.4	90	1.4	8
7.9	6	●	MAS0790LB	48.8	73.4	115.4	114	1.4	8
8.0	3	●	MAS0800MB	25.5	49.5	91.5	90	1.5	8
8.0	6	●	MAS0800LB	49.5	73.5	115.5	114	1.5	8
8.1	3	□	MAS0810MB	25.8	51.5	95.5	94	1.5	9
8.1	6	●	MAS0810LB	50.1	76.5	120.5	119	1.5	9
8.2	3	□	MAS0820MB	26.1	51.5	95.5	94	1.5	9
8.2	6	●	MAS0820LB	50.7	76.5	120.5	119	1.5	9
8.3	3	□	MAS0830MB	26.4	51.5	95.5	94	1.5	9
8.3	6	●	MAS0830LB	51.3	76.5	120.5	119	1.5	9

*表示用于轧制丝锥底孔。

DC (mm)	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
8.4	3	□	MAS0840MB	26.7	51.5	95.5	94	1.5	9
8.4	6	●	MAS0840LB	51.9	76.5	120.5	119	1.5	9
8.5	3	●	MAS0850MB	27.0	51.5	95.5	94	1.5	9
8.5	6	●	MAS0850LB	52.5	76.5	120.5	119	1.5	9
8.6	3	□	MAS0860MB	27.4	51.6	95.6	94	1.6	9
8.6	6	●	MAS0860LB	53.2	78.6	122.6	121	1.6	9
8.7	3	□	MAS0870MB	27.7	51.6	95.6	94	1.6	9
8.7	6	●	MAS0870LB	53.8	78.6	122.6	121	1.6	9
8.8	3	□	MAS0880MB	28.0	51.6	95.6	94	1.6	9
8.8	6	●	MAS0880LB	54.4	78.6	122.6	121	1.6	9
8.9	3	□	MAS0890MB	28.3	51.6	95.6	94	1.6	9
8.9	6	●	MAS0890LB	55.0	78.6	122.6	121	1.6	9
9.0	3	●	MAS0900MB	28.6	51.6	95.6	94	1.6	9
9.0	6	●	MAS0900LB	55.6	78.6	122.6	121	1.6	9
9.1	3	□	MAS0910MB	29.0	54.7	98.7	97	1.7	10
9.1	6	●	MAS0910LB	56.3	82.7	126.7	125	1.7	10
9.2	3	□	MAS0920MB	29.3	54.7	98.7	97	1.7	10
9.2	6	●	MAS0920LB	56.9	82.7	126.7	125	1.7	10
9.21	3	● *	MAS0921MB	29.3	54.7	98.7	97	1.7	10
9.21	6	● *	MAS0921LB	57.0	82.7	126.7	125	1.7	10
9.3	3	□	MAS0930MB	29.6	54.7	98.7	97	1.7	10
9.3	6	●	MAS0930LB	57.5	82.7	126.7	125	1.7	10
9.4	3	□	MAS0940MB	29.9	54.7	98.7	97	1.7	10
9.4	6	●	MAS0940LB	58.1	82.7	126.7	125	1.7	10
9.5	3	●	MAS0950MB	30.2	54.7	98.7	97	1.7	10
9.5	6	●	MAS0950LB	58.7	82.7	126.7	125	1.7	10
9.6	3	□	MAS0960MB	30.5	54.7	98.7	97	1.7	10
9.6	6	●	MAS0960LB	59.3	82.7	126.7	125	1.7	10
9.7	3	□	MAS0970MB	30.9	54.8	98.8	97	1.8	10
9.7	6	●	MAS0970LB	60.0	82.8	126.8	125	1.8	10
9.8	3	□	MAS0980MB	31.2	54.8	98.8	97	1.8	10
9.8	6	●	MAS0980LB	60.6	82.8	126.8	125	1.8	10
9.9	3	□	MAS0990MB	31.5	54.8	98.8	97	1.8	10
9.9	6	●	MAS0990LB	61.2	82.8	126.8	125	1.8	10
10.0	3	●	MAS1000MB	31.8	54.8	98.8	97	1.8	10
10.0	6	●	MAS1000LB	61.8	82.8	126.8	125	1.8	10
10.1	3	□	MAS1010MB	32.1	56.8	102.8	101	1.8	11
10.1	6	□	MAS1010LB	62.4	90.8	136.8	135	1.8	11
10.2	3	□	MAS1020MB	32.5	56.9	102.9	101	1.9	11
10.2	6	□	MAS1020LB	63.1	90.9	136.9	135	1.9	11
10.3	3	●	MAS1030MB	32.8	56.9	102.9	101	1.9	11
10.3	6	●	MAS1030LB	63.7	90.9	136.9	135	1.9	11
10.4	3	□	MAS1040MB	33.1	56.9	102.9	101	1.9	11
10.4	6	□	MAS1040LB	64.3	90.9	136.9	135	1.9	11
10.5	3	●	MAS1050MB	33.4	56.9	102.9	101	1.9	11
10.5	6	●	MAS1050LB	64.9	90.9	136.9	135	1.9	11
10.6	3	□	MAS1060MB	33.7	56.9	102.9	101	1.9	11
10.6	6	□	MAS1060LB	65.5	90.9	136.9	135	1.9	11

●：标准库存品 □：预订生产品

DC (mm)	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
10.7	3	□	MAS1070MB	34.0	56.9	102.9	101	1.9	11
10.7	6	□	MAS1070LB	66.1	90.9	136.9	135	1.9	11
10.8	3	□	MAS1080MB	34.4	57.0	103.0	101	2.0	11
10.8	6	□	MAS1080LB	66.8	91.0	137.0	135	2.0	11
10.9	3	□	MAS1090MB	34.7	57.0	103.0	101	2.0	11
10.9	6	□	MAS1090LB	67.4	91.0	137.0	135	2.0	11
11.0	3	●	MAS1100MB	35.0	57.0	103.0	101	2.0	11
11.0	6	●	MAS1100LB	68.0	91.0	137.0	135	2.0	11
11.08	3	● *	MAS1108MB	35.2	62.0	108.0	106	2.0	12
11.08	6	● *	MAS1108LB	68.5	96.0	142.0	140	2.0	12
11.1	3	□	MAS1110MB	35.3	62.0	108.0	106	2.0	12
11.1	6	□	MAS1110LB	68.6	96.0	142.0	140	2.0	12
11.2	3	□	MAS1120MB	35.6	62.0	108.0	106	2.0	12
11.2	6	□	MAS1120LB	69.2	96.0	142.0	140	2.0	12
11.3	3	□	MAS1130MB	36.0	62.1	108.1	106	2.1	12
11.3	6	□	MAS1130LB	69.9	96.1	142.1	140	2.1	12
11.4	3	□	MAS1140MB	36.3	62.1	108.1	106	2.1	12
11.4	6	□	MAS1140LB	70.5	96.1	142.1	140	2.1	12
11.5	3	□	MAS1150MB	36.6	62.1	108.1	106	2.1	12
11.5	6	□	MAS1150LB	71.1	96.1	142.1	140	2.1	12
11.6	3	□	MAS1160MB	36.9	62.1	108.1	106	2.1	12
11.6	6	□	MAS1160LB	71.7	96.1	142.1	140	2.1	12
11.7	3	□	MAS1170MB	37.2	62.1	108.1	106	2.1	12
11.7	6	□	MAS1170LB	72.3	96.1	142.1	140	2.1	12
11.8	3	□	MAS1180MB	37.5	62.1	108.1	106	2.1	12
11.8	6	□	MAS1180LB	72.9	96.1	142.1	140	2.1	12
11.9	3	□	MAS1190MB	37.9	62.2	108.2	106	2.2	12
11.9	6	□	MAS1190LB	73.6	96.2	142.2	140	2.2	12
12.0	3	●	MAS1200MB	38.2	62.2	108.2	106	2.2	12
12.0	6	●	MAS1200LB	74.2	96.2	142.2	140	2.2	12
12.1	3	□	MAS1210MB	38.5	67.2	117.2	115	2.2	13
12.1	6	□	MAS1210LB	74.8	102.2	152.2	150	2.2	13
12.2	3	□	MAS1220MB	38.8	67.2	117.2	115	2.2	13
12.2	6	□	MAS1220LB	75.4	102.2	152.2	150	2.2	13
12.3	3	□	MAS1230MB	39.1	67.2	117.2	115	2.2	13
12.3	6	□	MAS1230LB	76.0	102.2	152.2	150	2.2	13
12.4	3	□	MAS1240MB	39.5	67.3	117.3	115	2.3	13
12.4	6	□	MAS1240LB	76.7	102.3	152.3	150	2.3	13
12.5	3	●	MAS1250MB	39.8	67.3	117.3	115	2.3	13
12.5	6	●	MAS1250LB	77.3	102.3	152.3	150	2.3	13
12.6	3	□	MAS1260MB	40.1	67.3	117.3	115	2.3	13
12.6	6	□	MAS1260LB	77.9	102.3	152.3	150	2.3	13
12.7	3	□	MAS1270MB	40.4	67.3	117.3	115	2.3	13
12.7	6	□	MAS1270LB	78.5	102.3	152.3	150	2.3	13
12.8	3	□	MAS1280MB	40.7	67.3	117.3	115	2.3	13
12.8	6	□	MAS1280LB	79.1	102.3	152.3	150	2.3	13
12.9	3	□	MAS1290MB	41.0	67.3	117.3	115	2.3	13
12.9	6	□	MAS1290LB	79.7	102.3	152.3	150	2.3	13

*表示用于轧制丝锥底孔。

DC (mm)	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
12.96	3	● *	MAS1296MB	41.3	67.4	117.4	115	2.4	13
12.96	6	● *	MAS1296LB	80.2	102.4	152.4	150	2.4	13
13.0	3	●	MAS1300MB	41.4	67.4	117.4	115	2.4	13
13.0	6	●	MAS1300LB	80.4	102.4	152.4	150	2.4	13
13.1	3	□	MAS1310MB	41.7	72.4	122.4	120	2.4	14
13.1	6	□	MAS1310LB	81.0	112.4	162.4	160	2.4	14
13.2	3	□	MAS1320MB	42.0	72.4	122.4	120	2.4	14
13.2	6	□	MAS1320LB	81.6	112.4	162.4	160	2.4	14
13.3	3	□	MAS1330MB	42.3	72.4	122.4	120	2.4	14
13.3	6	□	MAS1330LB	82.2	112.4	162.4	160	2.4	14
13.4	3	□	MAS1340MB	42.6	72.4	122.4	120	2.4	14
13.4	6	□	MAS1340LB	82.8	112.4	162.4	160	2.4	14
13.5	3	●	MAS1350MB	43.0	72.5	122.5	120	2.5	14
13.5	6	●	MAS1350LB	83.5	112.5	162.5	160	2.5	14
13.6	3	□	MAS1360MB	43.3	72.5	122.5	120	2.5	14
13.6	6	□	MAS1360LB	84.1	112.5	162.5	160	2.5	14
13.7	3	□	MAS1370MB	43.6	72.5	122.5	120	2.5	14
13.7	6	□	MAS1370LB	84.7	112.5	162.5	160	2.5	14
13.8	3	□	MAS1380MB	43.9	72.5	122.5	120	2.5	14
13.8	6	□	MAS1380LB	85.3	112.5	162.5	160	2.5	14
13.9	3	□	MAS1390MB	44.2	72.5	122.5	120	2.5	14
13.9	6	□	MAS1390LB	85.9	112.5	162.5	160	2.5	14
14.0	3	●	MAS1400MB	44.5	72.5	122.5	120	2.5	14
14.0	6	●	MAS1400LB	86.5	112.5	162.5	160	2.5	14
14.1	3	□	MAS1410MB	44.9	74.6	132.6	130	2.6	15
14.1	6	□	MAS1410LB	87.2	117.6	175.6	173	2.6	15
14.2	3	□	MAS1420MB	45.2	74.6	132.6	130	2.6	15
14.2	6	□	MAS1420LB	87.8	117.6	175.6	173	2.6	15
14.3	3	□	MAS1430MB	45.5	74.6	132.6	130	2.6	15
14.3	6	□	MAS1430LB	88.4	117.6	175.6	173	2.6	15
14.4	3	□	MAS1440MB	45.8	74.6	132.6	130	2.6	15
14.4	6	□	MAS1440LB	89.0	117.6	175.6	173	2.6	15
14.5	3	□	MAS1450MB	46.1	74.6	132.6	130	2.6	15
14.5	6	□	MAS1450LB	89.6	117.6	175.6	173	2.6	15
14.6	3	□	MAS1460MB	46.5	74.7	132.7	130	2.7	15
14.6	6	□	MAS1460LB	90.3	117.7	175.7	173	2.7	15
14.7	3	□	MAS1470MB	46.8	74.7	132.7	130	2.7	15
14.7	6	□	MAS1470LB	90.9	117.7	175.7	173	2.7	15
14.8	3	□	MAS1480MB	47.1	74.7	132.7	130	2.7	15
14.8	6	□	MAS1480LB	91.5	117.7	175.7	173	2.7	15
14.9	3	□	MAS1490MB	47.4	74.7	132.7	130	2.7	15
14.9	6	□	MAS1490LB	92.1	117.7	175.7	173	2.7	15
14.96	3	● *	MAS1496MB	47.6	74.7	132.7	130	2.7	15
14.96	6	● *	MAS1496LB	92.5	117.7	175.7	173	2.7	15
15.0	3	●	MAS1500MB	47.7	74.7	132.7	130	2.7	15
15.0	6	●	MAS1500LB	92.7	117.7	175.7	173	2.7	15
15.1	3	□	MAS1510MB	48.0	78.7	136.7	134	2.7	16
15.1	6	□	MAS1510LB	93.3	122.7	180.7	178	2.7	16

P

钻头

MAS
超级辊光钻头

DC	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
15.2	3	□	MAS1520MB	48.4	78.8	136.8	134	2.8	16
15.2	6	□	MAS1520LB	94.0	122.8	180.8	178	2.8	16
15.3	3	□	MAS1530MB	48.7	78.8	136.8	134	2.8	16
15.3	6	□	MAS1530LB	94.6	122.8	180.8	178	2.8	16
15.4	3	□	MAS1540MB	49.0	78.8	136.8	134	2.8	16
15.4	6	□	MAS1540LB	95.2	122.8	180.8	178	2.8	16
15.5	3	□	MAS1550MB	49.3	78.8	136.8	134	2.8	16
15.5	6	□	MAS1550LB	95.8	122.8	180.8	178	2.8	16
15.6	3	□	MAS1560MB	49.6	78.8	136.8	134	2.8	16
15.6	6	□	MAS1560LB	96.4	122.8	180.8	178	2.8	16

*表示用于轧制丝锥底孔。

DC	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
15.7	3	□	MAS1570MB	50.0	78.9	136.9	134	2.9	16
15.7	6	□	MAS1570LB	97.1	122.9	180.9	178	2.9	16
15.8	3	□	MAS1580MB	50.3	78.9	136.9	134	2.9	16
15.8	6	□	MAS1580LB	97.7	122.9	180.9	178	2.9	16
15.9	3	□	MAS1590MB	50.6	78.9	136.9	134	2.9	16
15.9	6	□	MAS1590LB	98.3	122.9	180.9	178	2.9	16
16.0	3	●	MAS1600MB	50.9	78.9	136.9	134	2.9	16
16.0	6	●	MAS1600LB	98.9	122.9	180.9	178	2.9	16

P

M

K

N

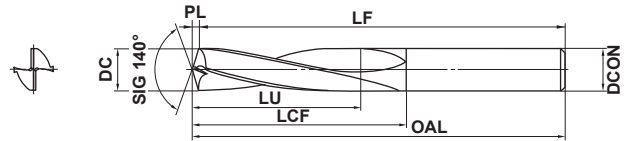
S

H

铸铁

有色金属

外冷却



DC=3	3<DC≤6	6<DC≤10	10<DC≤16
+0.005 0	+0.005 0	+0.005 0	+0.005 0



DCON=3	3<DCON≤6	6<DCON≤10	10<DCON≤16
0 -0.006	0 -0.008	0 -0.009	0 -0.011

注1) MAE型全部产品均可用于热缩式刀柄。

DC (mm)	钻削孔深 (L/D)	HT10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
3.0	3	●	MAE0300MB	9.5	21.5	61.5	61	0.5	3
3.1	3	●	MAE0310MB	9.9	24.6	64.6	64	0.6	4
3.2	3	●	MAE0320MB	10.2	24.6	64.6	64	0.6	4
3.3	3	●	MAE0330MB	10.5	24.6	64.6	64	0.6	4
3.4	3	●	MAE0340MB	10.8	24.6	64.6	64	0.6	4
3.5	3	●	MAE0350MB	11.1	24.6	64.6	64	0.6	4
3.6	3	●	MAE0360MB	11.5	28.7	68.7	68	0.7	4
3.65	3	●	* MAE0365MB	11.7	28.7	68.7	68	0.7	4
3.7	3	●	MAE0370MB	11.8	28.7	68.7	68	0.7	4
3.8	3	●	MAE0380MB	12.1	28.7	68.7	68	0.7	4
3.9	3	●	MAE0390MB	12.4	28.7	68.7	68	0.7	4
4.0	3	●	MAE0400MB	12.7	28.7	68.7	68	0.7	4
4.1	3	●	MAE0410MB	13.0	31.7	71.7	71	0.7	5
4.2	3	●	MAE0420MB	13.4	31.8	71.8	71	0.8	5
4.3	3	●	MAE0430MB	13.7	31.8	71.8	71	0.8	5
4.4	3	●	MAE0440MB	14.0	31.8	71.8	71	0.8	5
4.5	3	●	MAE0450MB	14.3	31.8	71.8	71	0.8	5
4.6	3	●	* MAE0460MB	14.6	33.8	73.8	73	0.8	5
4.7	3	●	MAE0470MB	15.0	33.9	73.9	73	0.9	5
4.8	3	●	MAE0480MB	15.3	33.9	73.9	73	0.9	5
4.9	3	●	MAE0490MB	15.6	33.9	73.9	73	0.9	5
5.0	3	●	MAE0500MB	15.9	33.9	73.9	73	0.9	5
5.1	3	●	MAE0510MB	16.2	36.9	76.9	76	0.9	6
5.2	3	●	MAE0520MB	16.5	36.9	76.9	76	0.9	6
5.3	3	●	MAE0530MB	16.9	37.0	77.0	76	1.0	6
5.4	3	●	MAE0540MB	17.2	37.0	77.0	76	1.0	6
5.5	3	●	* MAE0550MB	17.5	37.0	77.0	76	1.0	6
5.6	3	●	MAE0560MB	17.8	40.0	80.0	79	1.0	6
5.7	3	●	MAE0570MB	18.1	40.0	80.0	79	1.0	6
5.8	3	●	MAE0580MB	18.5	40.1	80.1	79	1.1	6
5.9	3	●	MAE0590MB	18.8	40.1	80.1	79	1.1	6

DC (mm)	钻削孔深 (L/D)	HT10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
6.0	3	●	MAE0600MB	19.1	40.1	80.1	79	1.1	6
6.1	3	●	MAE0610MB	19.4	43.1	85.1	84	1.1	7
6.2	3	●	MAE0620MB	19.7	43.1	85.1	84	1.1	7
6.3	3	●	MAE0630MB	20.0	43.1	85.1	84	1.1	7
6.4	3	●	MAE0640MB	20.4	43.2	85.2	84	1.2	7
6.5	3	●	MAE0650MB	20.7	43.2	85.2	84	1.2	7
6.6	3	●	MAE0660MB	21.0	43.2	85.2	84	1.2	7
6.7	3	●	MAE0670MB	21.3	43.2	85.2	84	1.2	7
6.8	3	●	MAE0680MB	21.6	43.2	85.2	84	1.2	7
6.9	3	●	MAE0690MB	22.0	43.3	85.3	84	1.3	7
7.0	3	●	MAE0700MB	22.3	43.3	85.3	84	1.3	7
7.1	3	●	MAE0710MB	22.6	49.3	91.3	90	1.3	8
7.2	3	●	MAE0720MB	22.9	49.3	91.3	90	1.3	8
7.3	3	●	MAE0730MB	23.2	49.3	91.3	90	1.3	8
7.35	3	●	* MAE0735MB	23.4	49.3	91.3	90	1.3	8
7.4	3	●	MAE0740MB	23.5	49.3	91.3	90	1.3	8
7.5	3	●	MAE0750MB	23.9	49.4	91.4	90	1.4	8
7.6	3	●	MAE0760MB	24.2	49.4	91.4	90	1.4	8
7.7	3	●	MAE0770MB	24.5	49.4	91.4	90	1.4	8
7.8	3	●	MAE0780MB	24.8	49.4	91.4	90	1.4	8
7.9	3	●	MAE0790MB	25.1	49.4	91.4	90	1.4	8
8.0	3	●	MAE0800MB	25.5	49.5	91.5	90	1.5	8
8.1	3	●	MAE0810MB	25.8	51.5	95.5	94	1.5	9
8.2	3	●	MAE0820MB	26.1	51.5	95.5	94	1.5	9
8.3	3	●	MAE0830MB	26.4	51.5	95.5	94	1.5	9
8.4	3	●	MAE0840MB	26.7	51.5	95.5	94	1.5	9
8.5	3	●	MAE0850MB	27.0	51.5	95.5	94	1.5	9
8.6	3	●	MAE0860MB	27.4	51.6	95.6	94	1.6	9
8.7	3	●	MAE0870MB	27.7	51.6	95.6	94	1.6	9
8.8	3	●	MAE0880MB	28.0	51.6	95.6	94	1.6	9
8.9	3	●	MAE0890MB	28.3	51.6	95.6	94	1.6	9

*表示用于轧制丝锥底孔。

DC	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
9.0	3	●	MAE0900MB	28.6	51.6	95.6	94	1.6	9
9.1	3	●	MAE0910MB	29.0	54.7	98.7	97	1.7	10
9.2	3	●	MAE0920MB	29.3	54.7	98.7	97	1.7	10
9.21	3	● *	MAE0921MB	29.3	54.7	98.7	97	1.7	10
9.3	3	●	MAE0930MB	29.6	54.7	98.7	97	1.7	10
9.4	3	●	MAE0940MB	29.9	54.7	98.7	97	1.7	10
9.5	3	●	MAE0950MB	30.2	54.7	98.7	97	1.7	10
9.6	3	●	MAE0960MB	30.5	54.7	98.7	97	1.7	10
9.7	3	●	MAE0970MB	30.9	54.8	98.8	97	1.8	10
9.8	3	●	MAE0980MB	31.2	54.8	98.8	97	1.8	10
9.9	3	●	MAE0990MB	31.5	54.8	98.8	97	1.8	10
10.0	3	●	MAE1000MB	31.8	54.8	98.8	97	1.8	10
10.1	3	□	MAE1010MB	32.1	56.8	102.8	101	1.8	11
10.2	3	□	MAE1020MB	32.5	56.9	102.9	101	1.9	11
10.3	3	●	MAE1030MB	32.8	56.9	102.9	101	1.9	11
10.4	3	□	MAE1040MB	33.1	56.9	102.9	101	1.9	11
10.5	3	●	MAE1050MB	33.4	56.9	102.9	101	1.9	11
10.6	3	□	MAE1060MB	33.7	56.9	102.9	101	1.9	11
10.7	3	□	MAE1070MB	34.0	56.9	102.9	101	1.9	11
10.8	3	□	MAE1080MB	34.4	57.0	103.0	101	2.0	11
10.9	3	□	MAE1090MB	34.7	57.0	103.0	101	2.0	11
11.0	3	●	MAE1100MB	35.0	57.0	103.0	101	2.0	11
11.08	3	● *	MAE1108MB	35.2	62.0	108.0	106	2.0	12
11.1	3	□	MAE1110MB	35.3	62.0	108.0	106	2.0	12
11.2	3	□	MAE1120MB	35.6	62.0	108.0	106	2.0	12
11.3	3	□	MAE1130MB	36.0	62.1	108.1	106	2.1	12
11.4	3	□	MAE1140MB	36.3	62.1	108.1	106	2.1	12
11.5	3	□	MAE1150MB	36.6	62.1	108.1	106	2.1	12
11.6	3	□	MAE1160MB	36.9	62.1	108.1	106	2.1	12
11.7	3	□	MAE1170MB	37.2	62.1	108.1	106	2.1	12
11.8	3	□	MAE1180MB	37.5	62.1	108.1	106	2.1	12
11.9	3	□	MAE1190MB	37.9	62.2	108.2	106	2.2	12
12.0	3	●	MAE1200MB	38.2	62.2	108.2	106	2.2	12
12.1	3	□	MAE1210MB	38.5	67.2	117.2	115	2.2	13
12.2	3	□	MAE1220MB	38.8	67.2	117.2	115	2.2	13
12.3	3	□	MAE1230MB	39.1	67.2	117.2	115	2.2	13
12.4	3	□	MAE1240MB	39.5	67.3	117.3	115	2.3	13
12.5	3	●	MAE1250MB	39.8	67.3	117.3	115	2.3	13
12.6	3	□	MAE1260MB	40.1	67.3	117.3	115	2.3	13
12.7	3	□	MAE1270MB	40.4	67.3	117.3	115	2.3	13
12.8	3	□	MAE1280MB	40.7	67.3	117.3	115	2.3	13
12.9	3	□	MAE1290MB	41.0	67.3	117.3	115	2.3	13
12.96	3	● *	MAE1296MB	41.3	67.4	117.4	115	2.4	13
13.0	3	●	MAE1300MB	41.4	67.4	117.4	115	2.4	13
13.1	3	□	MAE1310MB	41.7	72.4	122.4	120	2.4	14
13.2	3	□	MAE1320MB	42.0	72.4	122.4	120	2.4	14
13.3	3	□	MAE1330MB	42.3	72.4	122.4	120	2.4	14
13.4	3	□	MAE1340MB	42.6	72.4	122.4	120	2.4	14

*表示用于轧制丝锥底孔。

DC	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)					
				LU	LCF	OAL	LF	PL	DCON
13.5	3	●	MAE1350MB	43.0	72.5	122.5	120	2.5	14
13.6	3	□	MAE1360MB	43.3	72.5	122.5	120	2.5	14
13.7	3	□	MAE1370MB	43.6	72.5	122.5	120	2.5	14
13.8	3	□	MAE1380MB	43.9	72.5	122.5	120	2.5	14
13.9	3	□	MAE1390MB	44.2	72.5	122.5	120	2.5	14
14.0	3	●	MAE1400MB	44.5	72.5	122.5	120	2.5	14
14.1	3	□	MAE1410MB	44.9	74.6	132.6	130	2.6	15
14.2	3	□	MAE1420MB	45.2	74.6	132.6	130	2.6	15
14.3	3	□	MAE1430MB	45.5	74.6	132.6	130	2.6	15
14.4	3	□	MAE1440MB	45.8	74.6	132.6	130	2.6	15
14.5	3	□	MAE1450MB	46.1	74.6	132.6	130	2.6	15
14.6	3	□	MAE1460MB	46.5	74.7	132.7	130	2.7	15
14.7	3	□	MAE1470MB	46.8	74.7	132.7	130	2.7	15
14.8	3	□	MAE1480MB	47.1	74.7	132.7	130	2.7	15
14.9	3	□	MAE1490MB	47.4	74.7	132.7	130	2.7	15
14.96	3	● *	MAE1496MB	47.6	74.7	132.7	130	2.7	15
15.0	3	●	MAE1500MB	47.7	74.7	132.7	130	2.7	15
15.1	3	□	MAE1510MB	48.0	78.7	136.7	134	2.7	16
15.2	3	□	MAE1520MB	48.4	78.8	136.8	134	2.8	16
15.3	3	□	MAE1530MB	48.7	78.8	136.8	134	2.8	16
15.4	3	□	MAE1540MB	49.0	78.8	136.8	134	2.8	16
15.5	3	□	MAE1550MB	49.3	78.8	136.8	134	2.8	16
15.6	3	□	MAE1560MB	49.6	78.8	136.8	134	2.8	16
15.7	3	□	MAE1570MB	50.0	78.9	136.9	134	2.9	16
15.8	3	□	MAE1580MB	50.3	78.9	136.9	134	2.9	16
15.9	3	□	MAE1590MB	50.6	78.9	136.9	134	2.9	16
16.0	3	●	MAE1600MB	50.9	78.9	136.9	134	2.9	16

●：标准库存品 □：预订生产品

推荐切削条件

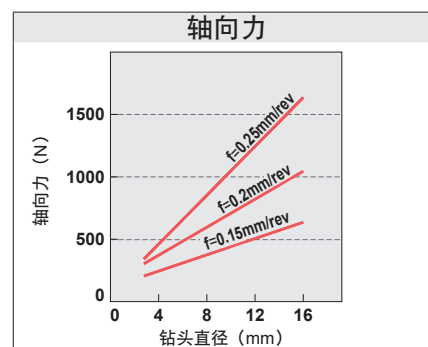
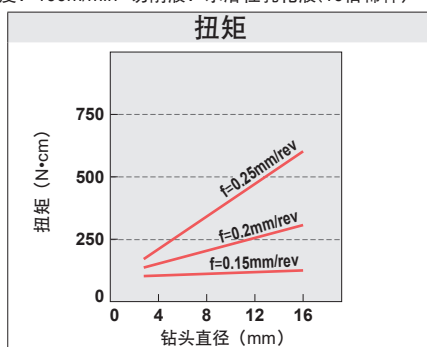
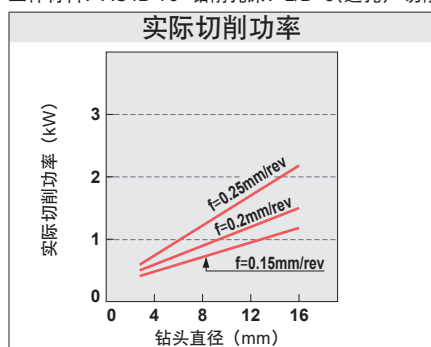
形式	工件材料	钻头直径 $\phi 3.0 - \phi 6.0$		钻头直径 $\phi 6.1 - \phi 10.0$		钻头直径 $\phi 10.1 - \phi 16.0$	
		切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)
MAE	N 铝合金铸件	90 (40—140)	0.15 (0.05—0.3)	100 (50—150)	0.2 (0.1—0.3)	120 (60—170)	0.25 (0.1—0.4)
	压铸铝合金	100 (60—150)	0.12 (0.05—0.25)	110 (70—160)	0.15 (0.05—0.25)	130 (80—180)	0.2 (0.1—0.3)
	K 灰铸铁	40 (20—60)	0.15 (0.1—0.2)	60 (40—80)	0.2 (0.1—0.3)	80 (60—100)	0.3 (0.2—0.4)
	球墨铸铁	30 (20—40)	0.1 (0.05—0.15)	40 (20—60)	0.12 (0.05—0.2)	60 (40—80)	0.2 (0.1—0.3)
MAS	N 铝合金铸件	100 (60—150)	0.15 (0.05—0.3)	120 (80—170)	0.2 (0.1—0.3)	150 (100—200)	0.25 (0.1—0.4)
	压铸铝合金	120 (80—170)	0.12 (0.05—0.25)	150 (100—180)	0.15 (0.05—0.25)	160 (120—200)	0.2 (0.1—0.3)
	K 灰铸铁	60 (40—80)	0.15 (0.1—0.2)	80 (60—110)	0.2 (0.1—0.3)	100 (70—130)	0.3 (0.2—0.4)
	球墨铸铁	45 (30—60)	0.1 (0.05—0.15)	60 (40—80)	0.12 (0.05—0.2)	80 (60—100)	0.2 (0.1—0.3)

螺纹底孔加工的适用钻头直径

螺纹型号	丝锥 (2级粗牙)			丝锥 (2级粗牙)		
	超级辊光钻头的适用直径 (DC)	内螺纹直径		超级辊光钻头的适用直径 (DC)	内螺纹直径	
		max.	min.		max.	min.
M4x0.7	3.3	3.242	3.422	3.65	3.65	3.70
M5x0.8	4.2	4.134	4.334	4.60	4.59	4.66
M6x1.0	5.0	4.917	5.153	5.50	5.48	5.57
M8x1.25	6.8	6.647	6.912	7.35	7.34	7.41
M10x1.5	8.5	8.376	8.676	9.21	9.18	9.28
M12x1.75	10.3	10.106	10.441	11.08	11.05	11.15
M14x2	12.0	11.835	12.210	12.96	12.92	13.04
M16x2	14.0	13.835	14.210	14.96	14.92	15.04

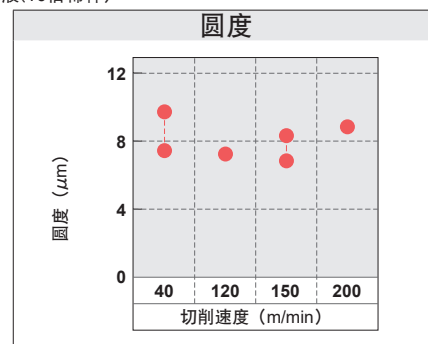
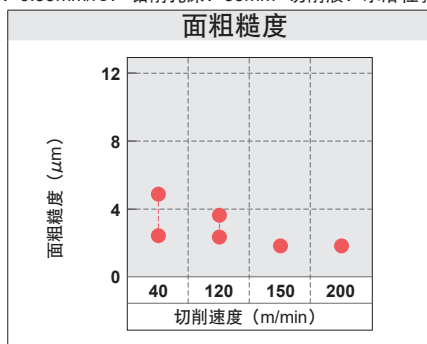
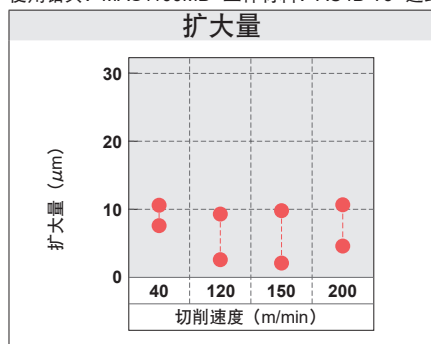
切削力

工件材料: AC4B-T6 钻头孔深: L/D=3(通孔) 切削速度: 100m/min 切削液: 水溶性乳化液(10倍稀释)



加工孔精度

使用钻头: MAS1100MB 工件材料: AC4B-T6 进给量: 0.35mm/rev 钻头孔深: 33mm 切削液: 水溶性乳化液(10倍稀释)



钻孔 [整体硬质合金钻头]

MCC

●自90°先端角，从开始加工降低推力，抑制分层。

CNC机床/用于加工CFRP单体的钻头



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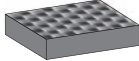
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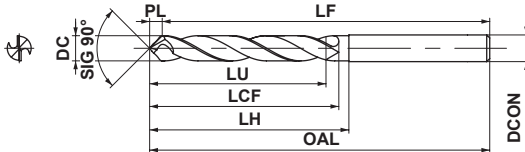


CNC机床



CFRP

外冷却



3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
$\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.022 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.027 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.033 \end{smallmatrix}$
DCON=6	6<DCON≤10	10<DCON≤12	
$\begin{smallmatrix} 0 \\ -0.008 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.009 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.011 \end{smallmatrix}$	

加工孔径		钻头直径		钻削孔深	型号	DD2105	尺寸 (mm)						
AWG*	英寸 (inch)	DC (mm)	英寸 (inch)	(L/D)			LU	LCF	LH	OAL	LF	PL	DCON
—	3/16	4.76	.1875	3	MCC0476X03S060	●	16.7	40	40	80	77.6	1.3	6
—	1/4	6.38	.251	3	MCC0638X03S080	●	22.3	50	50	90	86.8	1.8	8
—	5/16	7.96	.3125	3	MCC0796X03S080	●	27.9	50	50	90	86.0	2.8	8
—	3/8	9.55	.375	3	MCC0955X03S100	●	33.5	50	50	100	95.2	1.8	10
—	7/16	11.14	.4375	3	MCC1114X03S120	●	39.0	60	60	110	104.4	2.8	12

*AWG : American Wire Gage

推荐切削条件

工件材料		CFRP			
钻头直径 DC (mm)	钻头直径 DC (inch)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)
4.76	.1875	100	6700	0.08 (0.05—0.12)	540
6.38	.251	100	5000	0.1 (0.05—0.12)	500
7.96	.3125	100	4000	0.1 (0.05—0.12)	400
9.55	.375	100	3400	0.1 (0.05—0.12)	340
11.14	.4375	100	2900	0.1 (0.05—0.12)	290

P

钻头

●：标准库存品 □：预订生产品

CNC机床/CFRP+Al加工用钻头

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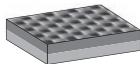
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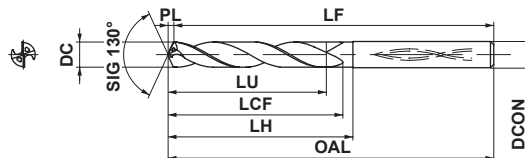
CNC机床

X



CFRP+Al

内冷却


 $6 < DC \leq 10$
 $\begin{matrix} 0 \\ -0.022 \end{matrix}$

 $6 < DCON \leq 10$
 $\begin{matrix} 0 \\ -0.009 \end{matrix}$

加工孔径		钻头直径		钻削孔深	型号	DD2110	尺寸 (mm)						
AWG*	英寸 (inch)	DC (mm)	英寸 (inch)	(L/D)			LU	LCF	LH	OAL	LF	PL	DCON
—	1/4	6.38	.251	5	MCA0638X05S070	□	33.4	51	51	91	89.5	2.4	7
—	3/8	9.55	.375	5	MCA0955X05S100	□	50.0	77	77	118	115.8	3.2	10

*AWG : American Wire Gage

推荐切削条件

工件材料		CFRP				铝合金 (Si<5%) A6061、A7075等			
钻头直径 DC (mm)	钻头直径 DC (inch)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)
6.38	.251	100	5000	0.15 (0.10—0.20)	750	100	5000	0.03 (0.02—0.04)	150
9.55	.375	100	3400	0.15 (0.10—0.20)	680	100	3400	0.03 (0.02—0.04)	100

注1) 推荐把CFRP和铝合金的切削条件分开。

P

钻头

钻孔 [整体硬质合金钻头]

MCT

CNC机床/CFRP+Ti加工用钻头

●尖锐的切削刃在CFRP和钛加工的共同切削时实现了高质量的打孔加工。



硬质合金

P

M

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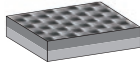
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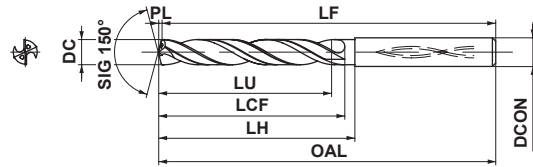


CNC机床



CFRP+Ti

内冷却



$6 < DC \leq 10$

$\begin{matrix} 0 \\ -0.022 \end{matrix}$



$6 < DCON \leq 10$

$\begin{matrix} 0 \\ -0.009 \end{matrix}$

加工孔径		钻头直径		钻削孔深	型号	TF15	尺寸 (mm)						
AWG*	英寸 (inch)	DC (mm)	英寸 (inch)	(L/D)			LU	LCF	LH	OAL	LF	PL	DCON
—	1/4	6.38	.251	5	MCT0638X05S070	☐	32.8	47	47	96	95.1	0.7	7
—	3/8	9.55	.375	5	MCT0955X05S100	☐	49.1	71	71	122	120.7	0.9	10

*AWG : American Wire Gage

推荐切削条件

工件材料		CFRP				钛合金 Ti-6Al-4V等				
钻头直径 DC (mm)	钻头直径 DC (inch)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)	啄式加工量 (mm)
6.38	.251	100	5000	0.15 (0.10—0.20)	750	15	750	0.02 (0.01—0.03)	15	1
9.55	.375	100	3400	0.15 (0.10—0.20)	680	15	500	0.02 (0.01—0.03)	10	1

注1) 本条件用于内部空气或喷雾时。

注2) 推荐把CFRP和钛合金的切削条件分开。

P

钻头

☐ : 预订生产品

P092

CNC机床/用于CFRP单体及堆层材料高精度加工的钻头

P

M

K

N

S

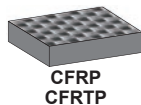
H

有色金属

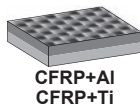


CNC机床

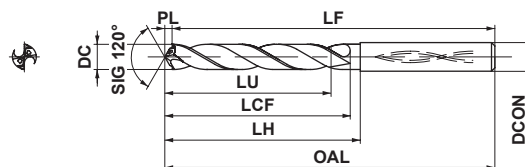
X

CFRP
CFRTP

or

CFRP+Al
CFRP+Ti

内冷却

 $6 < DC \leq 10$ 0
-0.022 $6 < DCON \leq 10$ 0
-0.009

加工孔径		钻头直径		钻削孔深	型号	HTi10	DD2110	尺寸 (mm)						
AWG*	英寸 (inch)	DC (mm)	英寸 (inch)	(L/D)				LU	LCF	LH	OAL	LF	PL	DCON
—	1/4	6.38	.251	5	MCW0638X05S070	□	□	33.7	52	52	92	90.2	1.8	7
—	3/8	9.55	.375	5	MCW0955X05S100	□	□	50.6	73	73	119	116.2	2.8	10

*AWG : American Wire Gage

推荐切削条件

工件材料		CFRP				
钻头直径 DC (mm)	钻头直径 DC (inch)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)	
6.38	.251	100	5000	0.15 (0.10—0.20)	750	
9.55	.375	100	3400	0.15 (0.10—0.20)	680	

工件材料		铝合金 (Si<5%) A6061、A7075等					钛合金 Ti-6Al-4V等				
钻头直径 DC (mm)	钻头直径 DC (inch)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)	啄式加工量 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)	进给速度 (mm/min)	啄式加工量 (mm)
6.38	.251	100	5000	0.15 (0.10—0.20)	750	3	15	750	0.02 (0.01—0.03)	15	1
9.55	.375	100	3400	0.15 (0.10—0.20)	500	3	15	500	0.02 (0.01—0.03)	10	1

注1) 本条件用于内部空气或喷雾时。

注2) 推荐为CFRP及铝合金或钛合金重叠板时，分别选定切削条件。

P

钻头

钻孔 [整体硬质合金钻头]

MCCH

手持工具/用于加工CFRP单体的钻头

●通过采用手持工具专用超硬合金、双角，实现了孔加工的高可靠性。



P

M

K

N

S

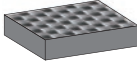
H

有色金属

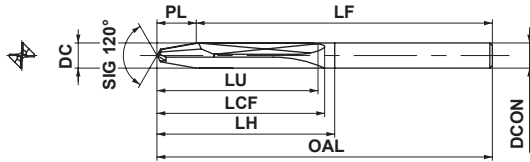


手持工具

×



CFRP



$1 \leq DC \leq 3$ $3 < DC \leq 6$ $6 < DC \leq 10$

$\begin{matrix} 0 \\ -0.014 \end{matrix}$ $\begin{matrix} 0 \\ -0.018 \end{matrix}$ $\begin{matrix} 0 \\ -0.022 \end{matrix}$



$DCON=3$ $3 < DCON \leq 6$ $6 < DCON \leq 10$

$\begin{matrix} 0 \\ -0.006 \end{matrix}$ $\begin{matrix} 0 \\ -0.008 \end{matrix}$ $\begin{matrix} 0 \\ -0.009 \end{matrix}$

加工孔径		钻头直径		钻削孔深	型号	DT2030	尺寸 (mm)						
AWG*	英寸 (inch)	DC (mm)	英寸 (inch)	(L/D)			LU	LCF	LH	OAL	LF	PL	DCON
#40	—	2.5	.0985	15	MCCH0250X15S030	●	42.1	48	50	100	95.4	4.6	3
#30	—	3.26	.1285	10	MCCH0326X10S040	●	38.6	48	50	100	94.0	6.0	4
#20	—	4.1	.1615	8	MCCH0410X08S050	●	40.3	48	50	100	92.5	7.5	5
#11	—	4.86	.1915	5	MCCH0486X05S050	●	33.2	48	50	100	91.1	8.9	5
—	1/4	6.38	.251	3	MCCH0638X03S070	●	30.8	48	50	100	88.3	11.7	7
—	3/8	9.55	.375	2	MCCH0955X02S100	●	36.6	48	50	100	82.5	17.5	10

*AWG : American Wire Gage

P

钻头

●：标准库存品

手持工具/CFRP+AI加工用钻头

P

M

K

N

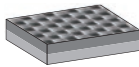
S

H

有色金属

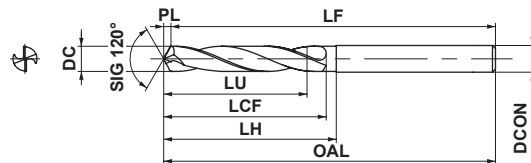


X



CFRP+AI

手持工具



$1 \leq DC \leq 3$	$3 < DC \leq 6$	$6 < DC \leq 10$
0 -0.014	0 -0.018	0 -0.022
$DCON=3$	$3 < DCON \leq 6$	$6 < DCON \leq 10$
0 -0.006	0 -0.008	0 -0.009



加工孔径		钻头直径		钻削孔深	型号	DT2030	尺寸 (mm)						
AWG*	英寸 (inch)	DC (mm)	英寸 (inch)	(L/D)			LU	LCF	LH	OAL	LF	PL	DCON
#40	—	2.5	.0985	15	MCAH0250X15S030	●	38.2	50	50	100	99.3	4.0	3
#30	—	3.26	.1285	15	MCAH0326X15S040	●	49.8	50	50	100	99.1	4.8	4
#20	—	4.1	.1615	10	MCAH0410X10S050	●	42.2	50	50	100	98.8	5.6	5
#11	—	4.86	.1915	8	MCAH0486X08S050	●	40.3	50	50	100	98.6	1.5	5
—	1/4	6.38	.251	5	MCAH0638X05S070	●	33.7	50	50	100	98.2	2.2	7
—	3/8	9.55	.375	3	MCAH0955X03S100	●	31.5	50	50	100	97.2	0.9	10

*AWG : American Wire Gage

P

钻头

钻孔 [整体硬质合金钻头]

硬质合金

MSP

导孔专用钻头 导孔钻



P

钢

M

不锈钢

K

铸铁

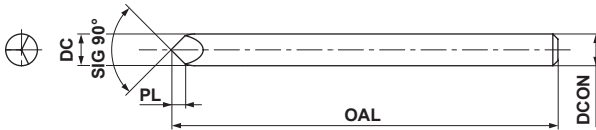
N

有色金属

S

耐热合金

H



型号	材 料	库存	尺寸 (mm)				适用直径 (mm)
			DC	OAL	DCON	PL	
MSP0300SB	VP15TF	●	3.0	38.0	3.0	1.5	0.1—0.99

推荐切削条件

适用孔直径 (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
0.1—0.99	10000	0.0005 (0.00025—0.001)	5

P

钻头

●：标准库存品

MSE

MIRACLE MINI STAR 钻头

- 大宽槽，有效的防止切屑堵塞
- 极小径加工，性能稳定



硬质合金

P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属	耐热合金	

外冷却

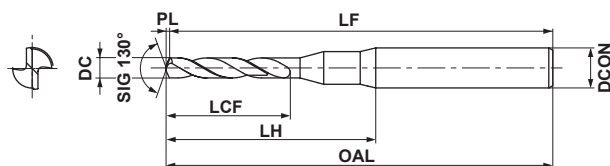


图1

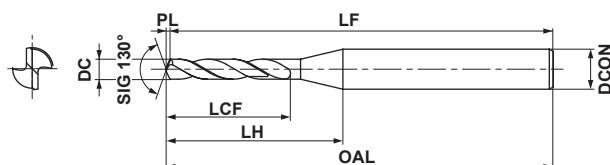


图2

	$0.10 \leq DC \leq 0.99$
	$\begin{matrix} 0 \\ -0.009 \end{matrix}$
	$DCON=3$
	$\begin{matrix} 0 \\ -0.006 \end{matrix}$

注1) MSE型全部产品均可用于热缩式刀柄。

DC (mm)	VP20MF	VP15TF	型号	尺寸 (mm)						图
				LCF	LH	OAL	LF	PL	DCON	
0.10	●		MSE0010SB	1.2	9.7	38.0	38	0.02	3	1
0.11	●		MSE0011SB	1.2	9.7	38.0	38	0.03	3	1
0.12	●		MSE0012SB	1.4	9.7	38.0	38	0.03	3	1
0.13	●		MSE0013SB	1.4	9.7	38.0	38	0.03	3	1
0.14	●		MSE0014SB	2.0	9.7	38.0	38	0.03	3	1
0.15	●		MSE0015SB	2.0	9.7	38.0	38	0.03	3	1
0.16	●		MSE0016SB	2.0	9.7	38.0	38	0.04	3	1
0.17	●		MSE0017SB	2.0	9.7	38.0	38	0.04	3	1
0.18	●		MSE0018SB	2.0	9.7	38.0	38	0.04	3	1
0.19	●		MSE0019SB	2.0	9.7	38.0	38	0.04	3	1
0.20	●		MSE0020SB	2.6	9.8	38.1	38	0.05	3	1
0.21	●		MSE0021SB	2.6	9.8	38.1	38	0.05	3	1
0.22	●		MSE0022SB	2.6	9.8	38.1	38	0.05	3	1
0.23	●		MSE0023SB	2.6	9.8	38.1	38	0.05	3	1
0.24	●		MSE0024SB	3.1	9.8	38.1	38	0.06	3	1
0.25	●		MSE0025SB	3.1	9.8	38.1	38	0.06	3	1
0.26	●		MSE0026SB	3.1	9.8	38.1	38	0.06	3	1
0.27	●		MSE0027SB	3.1	9.8	38.1	38	0.06	3	1
0.28	●		MSE0028SB	3.1	9.8	38.1	38	0.07	3	1
0.29	●		MSE0029SB	3.1	9.8	38.1	38	0.07	3	1
0.30		●	MSE0030SB	5.1	10.3	38.1	38	0.07	3	2
0.31		●	MSE0031SB	5.1	10.3	38.1	38	0.07	3	2
0.32		●	MSE0032SB	5.1	10.3	38.1	38	0.07	3	2
0.33		●	MSE0033SB	5.1	10.3	38.1	38	0.08	3	2
0.34		●	MSE0034SB	6.1	11.3	38.1	38	0.08	3	2
0.35		●	MSE0035SB	6.1	11.2	38.1	38	0.08	3	2
0.36		●	MSE0036SB	6.1	11.2	38.1	38	0.08	3	2
0.37		●	MSE0037SB	6.1	11.2	38.1	38	0.09	3	2

DC (mm)	VP20MF	VP15TF	型号	尺寸 (mm)						图
				LCF	LH	OAL	LF	PL	DCON	
0.38		●	MSE0038SB	6.1	11.2	38.1	38	0.09	3	2
0.39		●	MSE0039SB	6.1	11.2	38.1	38	0.09	3	2
0.40		●	MSE0040SB	7.1	12.2	38.1	38	0.09	3	2
0.41		●	MSE0041SB	7.1	12.1	38.1	38	0.10	3	2
0.42		●	MSE0042SB	7.1	12.1	38.1	38	0.10	3	2
0.43		●	MSE0043SB	7.1	12.1	38.1	38	0.10	3	2
0.44		●	MSE0044SB	7.1	12.1	38.1	38	0.10	3	2
0.45		●	MSE0045SB	7.1	12.1	38.1	38	0.10	3	2
0.46		●	MSE0046SB	7.1	12.0	38.1	38	0.11	3	2
0.47		●	MSE0047SB	7.1	12.0	38.1	38	0.11	3	2
0.48		●	MSE0048SB	7.1	12.0	38.1	38	0.11	3	2
0.49		●	MSE0049SB	7.1	12.0	38.1	38	0.11	3	2
0.50		●	MSE0050SB	7.1	12.0	38.1	38	0.12	3	2
0.51		●	MSE0051SB	7.1	11.9	38.1	38	0.12	3	2
0.52		●	MSE0052SB	7.1	11.9	38.1	38	0.12	3	2
0.53		●	MSE0053SB	7.1	11.9	38.1	38	0.12	3	2
0.54		●	MSE0054SB	7.1	11.9	38.1	38	0.13	3	2
0.55		●	MSE0055SB	7.1	11.9	38.1	38	0.13	3	2
0.56		●	MSE0056SB	7.1	11.9	38.1	38	0.13	3	2
0.57		●	MSE0057SB	7.1	11.8	38.1	38	0.13	3	2
0.58		●	MSE0058SB	7.1	11.8	38.1	38	0.14	3	2
0.59		●	MSE0059SB	7.1	11.8	38.1	38	0.14	3	2
0.60		●	MSE0060SB	7.1	11.8	38.1	38	0.14	3	2
0.61		●	MSE0061SB	7.1	11.8	38.1	38	0.14	3	2
0.62		●	MSE0062SB	7.1	11.7	38.1	38	0.14	3	2
0.63		●	MSE0063SB	7.2	11.8	38.2	38	0.15	3	2
0.64		●	MSE0064SB	7.2	11.8	38.2	38	0.15	3	2
0.65		●	MSE0065SB	7.2	11.8	38.2	38	0.15	3	2

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

P

钻头

DC (mm)	VP20MF	VP15TF	型号	尺寸 (mm)						图
				LCF	LH	OAL	LF	PL	DCON	
0.66		●	MSE0066SB	7.2	11.8	38.2	38	0.15	3	2
0.67		●	MSE0067SB	7.2	11.7	38.2	38	0.16	3	2
0.68		●	MSE0068SB	7.2	11.7	38.2	38	0.16	3	2
0.69		●	MSE0069SB	7.2	11.7	38.2	38	0.16	3	2
0.70		●	MSE0070SB	8.2	12.7	38.2	38	0.16	3	2
0.71		●	MSE0071SB	8.2	12.7	38.2	38	0.17	3	2
0.72		●	MSE0072SB	8.2	12.7	38.2	38	0.17	3	2
0.73		●	MSE0073SB	8.2	12.6	38.2	38	0.17	3	2
0.74		●	MSE0074SB	8.2	12.6	38.2	38	0.17	3	2
0.75		●	MSE0075SB	8.2	12.6	38.2	38	0.17	3	2
0.76		●	MSE0076SB	8.2	12.6	38.2	38	0.18	3	2
0.77		●	MSE0077SB	8.2	12.6	38.2	38	0.18	3	2
0.78		●	MSE0078SB	8.2	12.5	38.2	38	0.18	3	2
0.79		●	MSE0079SB	8.2	12.5	38.2	38	0.18	3	2
0.80		●	MSE0080SB	10.2	14.5	38.2	38	0.19	3	2
0.81		●	MSE0081SB	10.2	14.5	38.2	38	0.19	3	2
0.82		●	MSE0082SB	10.2	14.5	38.2	38	0.19	3	2

DC (mm)	VP20MF	VP15TF	型号	尺寸 (mm)						图
				LCF	LH	OAL	LF	PL	DCON	
0.83		●	MSE0083SB	10.2	14.5	38.2	38	0.19	3	2
0.84		●	MSE0084SB	10.2	14.4	38.2	38	0.20	3	2
0.85		●	MSE0085SB	10.2	14.4	38.2	38	0.20	3	2
0.86		●	MSE0086SB	10.2	14.4	38.2	38	0.20	3	2
0.87		●	MSE0087SB	10.2	14.4	38.2	38	0.20	3	2
0.88		●	MSE0088SB	10.2	14.4	38.2	38	0.21	3	2
0.89		●	MSE0089SB	10.2	14.3	38.2	38	0.21	3	2
0.90		●	MSE0090SB	10.2	14.3	38.2	38	0.21	3	2
0.91		●	MSE0091SB	10.2	14.3	38.2	38	0.21	3	2
0.92		●	MSE0092SB	10.2	14.3	38.2	38	0.21	3	2
0.93		●	MSE0093SB	10.2	14.3	38.2	38	0.22	3	2
0.94		●	MSE0094SB	10.2	14.2	38.2	38	0.22	3	2
0.95		●	MSE0095SB	10.2	14.2	38.2	38	0.22	3	2
0.96		●	MSE0096SB	10.2	14.2	38.2	38	0.22	3	2
0.97		●	MSE0097SB	10.2	14.2	38.2	38	0.23	3	2
0.98		●	MSE0098SB	10.2	14.2	38.2	38	0.23	3	2
0.99		●	MSE0099SB	10.2	14.2	38.2	38	0.23	3	2

推荐切削条件

工件材料	软钢 (≤HB180)						碳钢、合金钢 (HB180—280)					
	SS400、S10C等						S45C、SCM440等					
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev.)		步进量 (mm)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev.)		步进量 (mm)	进给速度 (mm/min)
0.1	6	20000	0.002 (0.001—0.003)		0.02	40	6	20000	0.002 (0.001—0.003)		0.02	40
0.12	8	20000	0.002 (0.001—0.003)		0.02	40	8	20000	0.002 (0.001—0.003)		0.02	40
0.16	10	20000	0.002 (0.001—0.003)		0.02	40	10	20000	0.002 (0.001—0.003)		0.02	40
0.2	13	20000	0.003 (0.002—0.004)		0.04	60	13	20000	0.003 (0.002—0.004)		0.04	60
0.25	16	20000	0.003 (0.002—0.004)		0.04	60	16	20000	0.003 (0.002—0.004)		0.04	60
0.32	20	20000	0.004 (0.003—0.005)		0.05	80	20	20000	0.004 (0.003—0.005)		0.05	80
0.4	25	20000	0.004 (0.003—0.005)		0.05	80	25	20000	0.004 (0.003—0.005)		0.05	80
0.5	31	20000	0.006 (0.005—0.007)		0.1	120	31	20000	0.006 (0.005—0.007)		0.1	120
0.63	40	20000	0.008 (0.006—0.01)		0.1	160	40	20000	0.008 (0.006—0.01)		0.1	160
0.8	50	20000	0.02 (0.015—0.025)		0.3	400	50	20000	0.015 (0.012—0.018)		0.3	300
0.99	62	20000	0.04 (0.03—0.05)		0.3	800	62	20000	0.02 (0.015—0.025)		0.3	400

注1) 推荐使用φ0.3以下的导孔钻(型号: MSP0300SB 加工条件: 请参照P096页)

注2) 根据机器调整切削条件

注3) 若孔深大于钻头直径的5倍, 请减小上表的步进量

注4) 上表是使用水溶性切削液(稀释率×20)的条件下提出的, 若使用油性, 喷雾等请降低转速

P

钻头

●: 标准库存品

被削材	碳钢、合金钢 (HB280—350)						预硬钢 (35—45HRC)				
	SNCM439等						NAK, PX5等				
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	步进量 (mm)	进给速度 (mm/min)		切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	步进量 (mm)	进给速度 (mm/min)
0.1	6	20000	0.002 (0.001—0.003)	0.02	40		6	20000	0.002 (0.001—0.003)	0.02	40
0.12	8	20000	0.002 (0.001—0.003)	0.02	40		8	20000	0.002 (0.001—0.003)	0.02	40
0.16	10	20000	0.002 (0.001—0.003)	0.02	40		10	20000	0.002 (0.001—0.003)	0.02	40
0.2	13	20000	0.003 (0.002—0.004)	0.04	60		13	20000	0.003 (0.002—0.004)	0.04	60
0.25	16	20000	0.003 (0.002—0.004)	0.04	60		16	20000	0.003 (0.002—0.004)	0.04	60
0.32	20	20000	0.004 (0.003—0.005)	0.05	80		20	20000	0.004 (0.003—0.005)	0.05	80
0.4	25	20000	0.004 (0.003—0.005)	0.05	80		25	20000	0.004 (0.003—0.005)	0.05	80
0.5	31	20000	0.006 (0.005—0.007)	0.1	120		31	20000	0.006 (0.005—0.007)	0.1	120
0.63	40	20000	0.008 (0.006—0.01)	0.1	160		40	20000	0.008 (0.006—0.01)	0.1	160
0.8	50	20000	0.015 (0.012—0.018)	0.3	300		50	20000	0.015 (0.012—0.018)	0.3	300
0.99	62	20000	0.02 (0.015—0.025)	0.3	400		62	20000	0.02 (0.015—0.025)	0.3	400

工件材料	奥氏体类不锈钢 (≤HB200)						灰铸铁 (≤350MPa)				
	SUS304、SUS316等						FC300等				
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	步进量 (mm)	进给速度 (mm/min)		切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	步进量 (mm)	进给速度 (mm/min)
0.1	6	20000	0.002 (0.001—0.003)	0.02	40		6	20000	0.002 (0.001—0.003)	0.02	40
0.12	8	20000	0.002 (0.001—0.003)	0.02	40		8	20000	0.002 (0.001—0.003)	0.02	40
0.16	10	20000	0.002 (0.001—0.003)	0.02	40		10	20000	0.002 (0.001—0.003)	0.02	40
0.2	11	18000	0.003 (0.002—0.004)	0.04	54		13	20000	0.003 (0.002—0.004)	0.04	60
0.25	14	18000	0.003 (0.002—0.004)	0.04	54		16	20000	0.003 (0.002—0.004)	0.04	60
0.32	15	15000	0.004 (0.003—0.005)	0.05	60		20	20000	0.004 (0.003—0.005)	0.05	80
0.4	19	15000	0.004 (0.003—0.005)	0.05	60		25	20000	0.004 (0.003—0.005)	0.05	80
0.5	16	10000	0.006 (0.005—0.007)	0.1	60		31	20000	0.006 (0.005—0.007)	0.1	120
0.63	20	10000	0.008 (0.006—0.01)	0.1	80		40	20000	0.008 (0.006—0.01)	0.1	160
0.8	15	6000	0.015 (0.012—0.018)	0.2	90		50	20000	0.02 (0.015—0.025)	0.3	400
0.99	19	6000	0.02 (0.015—0.025)	0.2	120		62	20000	0.04 (0.03—0.05)	0.3	800

工件材料	铝合金 (Si<5%)						耐热合金				
	A6061、A7075等						Inconel718等				
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	步进量 (mm)	进给速度 (mm/min)		切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	步进量 (mm)	进给速度 (mm/min)
0.1	6	20000	0.002 (0.001—0.003)	0.05	40		2	7000	0.001 (0.0005—0.001)	0.02	7
0.12	8	20000	0.003 (0.002—0.004)	0.05	60		3	7000	0.001 (0.0005—0.001)	0.02	7
0.16	10	20000	0.004 (0.003—0.005)	0.05	80		4	7000	0.001 (0.0005—0.001)	0.02	7
0.2	13	20000	0.006 (0.005—0.007)	0.1	120		3	5000	0.002 (0.001—0.002)	0.04	10
0.25	16	20000	0.008 (0.006—0.01)	0.1	160		4	5000	0.002 (0.001—0.002)	0.04	10
0.32	20	20000	0.01 (0.008—0.012)	0.3	200		4	4000	0.002 (0.001—0.002)	0.05	8
0.4	25	20000	0.02 (0.015—0.025)	0.3	400		5	4000	0.002 (0.001—0.002)	0.05	8
0.5	31	20000	0.03 (0.025—0.035)	0.5	600		5	3000	0.003 (0.001—0.003)	0.1	9
0.63	40	20000	0.04 (0.035—0.045)	0.5	800		6	3000	0.004 (0.002—0.004)	0.1	12
0.8	50	20000	0.05 (0.045—0.055)	0.8	1000		5	1800	0.006 (0.004—0.006)	0.2	10.8
0.99	62	20000	0.06 (0.055—0.065)	0.8	1200		6	1800	0.01 (0.008—0.01)	0.2	18

注1) 推荐使用φ0.3以下的导孔钻(型号: MSP0300SB 加工条件: 请参照P096页)

注2) 根据机器调整切削条件

注3) 若孔深大于钻头直径的5倍,请减小上表的步进量

注4) 上表是使用水溶性切削液(稀释率×20)的条件下提出的,若使用油性,喷雾等请降低转速

P

钻头

钻孔 [整体硬质合金钻头]

MWS
WSTAR钻头

●可对应从碳钢到难切削材料的全部工件材料的高效率、高精度加工。



硬质合金

P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属	耐热合金	

内冷却

■SB 型
(导孔加工用钻头)



DC≤2



DC>2

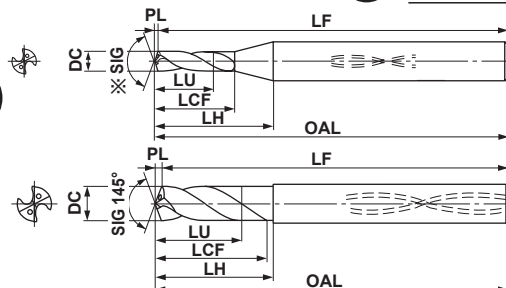


图1

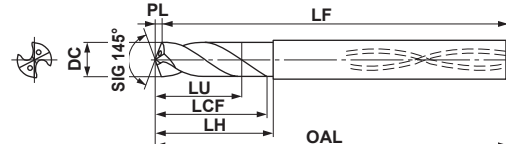


图2

$0.5 \leq DC < 1$	$1 \leq DC < 2.95$
$\begin{matrix} +0.009 \\ 0 \end{matrix}$	$\begin{matrix} +0.014 \\ 0 \end{matrix}$
$\begin{matrix} DCON=3 \\ 0 \\ -0.006 \end{matrix}$	$\begin{matrix} 0 \\ -0.014 \\ 0 \end{matrix}$

■LB/XB 型($\phi 0.50 - \phi 2.95$)



DC≤2



DC>2

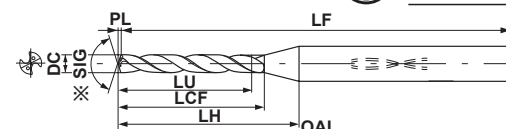


图3

■DB 型($\phi 0.50 - \phi 2.95$)

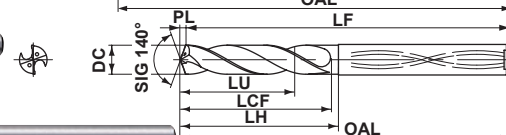


图4

■MB/LB/X8DB 型($\phi 3 - \phi 25$)



DC=3	$3 < DC \leq 6$	$6 < DC \leq 10$	$10 < DC \leq 18$	$18 < DC \leq 25$
$\begin{matrix} 0 \\ -0.014 \end{matrix}$	$\begin{matrix} 0 \\ -0.018 \end{matrix}$	$\begin{matrix} 0 \\ -0.022 \end{matrix}$	$\begin{matrix} 0 \\ -0.027 \end{matrix}$	$\begin{matrix} 0 \\ -0.033 \end{matrix}$
$\begin{matrix} DCON=3 \\ 0 \\ -0.006 \end{matrix}$	$\begin{matrix} 0 \\ -0.008 \end{matrix}$	$\begin{matrix} 0 \\ -0.009 \end{matrix}$	$\begin{matrix} 0 \\ -0.011 \end{matrix}$	$\begin{matrix} 0 \\ -0.013 \end{matrix}$

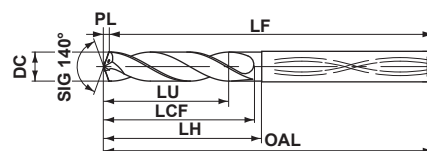


图5

■X10DB/X15DB/X20DB/X25DB/X30DB 型($\phi 3 - \phi 14$, $L/D \geq 10$)



DC=3	$3 < DC \leq 6$	$6 < DC \leq 10$	$10 < DC \leq 14$
$\begin{matrix} -0.017 \\ -0.031 \end{matrix}$	$\begin{matrix} -0.025 \\ -0.043 \end{matrix}$	$\begin{matrix} -0.033 \\ -0.055 \end{matrix}$	$\begin{matrix} -0.041 \\ -0.068 \end{matrix}$
$\begin{matrix} DCON=3 \\ 0 \\ -0.006 \end{matrix}$	$\begin{matrix} 0 \\ -0.008 \end{matrix}$	$\begin{matrix} 0 \\ -0.009 \end{matrix}$	$\begin{matrix} 0 \\ -0.011 \end{matrix}$

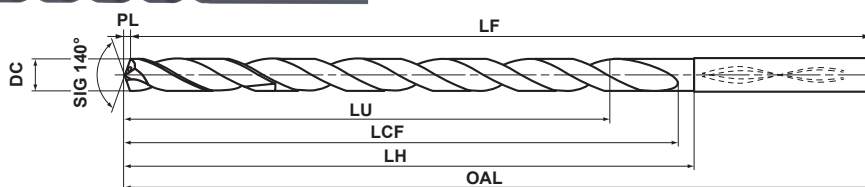


图6

P

钻头

注1) MWS-DB型 $\phi 5.0$ 以上端面带油槽(刀柄端面有储油小凹槽)。

注2) MWS型全部产品均可用于热缩式刀柄。

※顶角: 图1钻头直径 $\phi 0.50 - \phi 2.0$ 的为 140° , $\phi 2.05 - \phi 2.95$ 为 145° 。

图3钻头直径 $\phi 0.50 - \phi 2.0$ 的为 135° , $\phi 2.05 - \phi 2.95$ 为 140° 。

★ 订购DB 型($\phi 3 - \phi 14$, $L/D \geq 10$)的标准品以外的商品时, 请告知以下几点内容。

①钻头名称 ②工件材料的种类、钻削深度、要求精度

③钻削孔的状况(通孔、盲孔、交叉孔...) ④钻头规格(上图型号的尺寸)

如您需要特殊规格钻头, 敬请尽量提出您的要求。

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
0.50	1	●	MWS0050SB	0.6	2.6	7.3	47.1	47	0.09	3	1
0.50	5	●	MWS0050LB	2.6	8.1	13.1	47.1	47	0.10	3	3
0.50	12	●	MWS0050XB	6.1	16.1	21.1	47.1	47	0.10	3	3
0.51	1	●	MWS0051SB	0.6	2.7	7.3	47.1	47	0.09	3	1
0.51	5	●	MWS0051LB	2.7	8.1	13.1	47.1	47	0.11	3	3
0.51	12	●	MWS0051XB	6.2	16.1	21.1	47.1	47	0.11	3	3
0.52	1	●	MWS0052SB	0.6	2.7	7.3	47.1	47	0.09	3	1
0.52	5	●	MWS0052LB	2.7	8.1	13.1	47.1	47	0.11	3	3
0.52	12	●	MWS0052XB	6.4	16.1	21.1	47.1	47	0.11	3	3
0.53	1	●	MWS0053SB	0.6	2.7	7.3	47.1	47	0.10	3	1
0.53	5	●	MWS0053LB	2.8	8.1	13.1	47.1	47	0.11	3	3
0.53	12	●	MWS0053XB	6.5	16.1	21.1	47.1	47	0.11	3	3
0.54	1	●	MWS0054SB	0.6	2.7	7.3	47.1	47	0.10	3	1
0.54	5	●	MWS0054LB	2.8	8.1	13.1	47.1	47	0.11	3	3
0.54	12	●	MWS0054XB	6.6	16.1	21.1	47.1	47	0.11	3	3
0.55	1	●	MWS0055SB	0.7	2.7	7.3	47.1	47	0.10	3	1
0.55	5	●	MWS0055LB	2.9	8.1	13.1	47.1	47	0.11	3	3
0.55	12	●	MWS0055XB	6.7	16.1	21.1	47.1	47	0.11	3	3
0.56	1	●	MWS0056SB	0.7	3.0	7.6	47.1	47	0.10	3	1
0.56	5	●	MWS0056LB	2.9	8.1	13.1	47.1	47	0.12	3	3
0.56	12	●	MWS0056XB	6.8	16.1	21.1	47.1	47	0.12	3	3
0.57	1	●	MWS0057SB	0.7	3.0	7.5	47.1	47	0.10	3	1
0.57	5	●	MWS0057LB	3.0	8.1	13.1	47.1	47	0.12	3	3
0.57	12	●	MWS0057XB	7.0	16.1	21.1	47.1	47	0.12	3	3
0.58	1	●	MWS0058SB	0.7	3.0	7.5	47.1	47	0.11	3	1
0.58	5	●	MWS0058LB	3.0	8.1	13.1	47.1	47	0.12	3	3
0.58	12	●	MWS0058XB	7.1	16.1	21.1	47.1	47	0.12	3	3
0.59	1	●	MWS0059SB	0.7	3.0	7.5	47.1	47	0.11	3	1
0.59	5	●	MWS0059LB	3.1	8.1	12.1	47.1	47	0.12	3	3
0.59	12	●	MWS0059XB	7.2	16.1	20.1	47.1	47	0.12	3	3
0.60	1	●	MWS0060SB	0.7	3.0	7.5	47.1	47	0.11	3	1
0.60	5	●	MWS0060LB	3.1	8.1	12.1	47.1	47	0.12	3	3
0.60	12	●	MWS0060XB	7.3	16.1	20.1	47.1	47	0.12	3	3
0.61	1	●	MWS0061SB	0.7	3.2	7.7	47.1	47	0.11	3	1
0.61	5	●	MWS0061LB	3.2	8.1	12.1	47.1	47	0.13	3	3
0.61	12	●	MWS0061XB	7.5	16.1	20.1	47.1	47	0.13	3	3
0.62	1	●	MWS0062SB	0.7	3.2	7.6	47.1	47	0.11	3	1
0.62	5	●	MWS0062LB	3.2	8.1	12.1	47.1	47	0.13	3	3
0.62	12	●	MWS0062XB	7.6	16.1	20.1	47.1	47	0.13	3	3
0.63	1	●	MWS0063SB	0.7	3.2	7.6	47.1	47	0.11	3	1
0.63	5	●	MWS0063LB	3.3	8.1	12.1	47.1	47	0.13	3	3
0.63	12	●	MWS0063XB	7.7	16.1	20.1	47.1	47	0.13	3	3
0.64	1	●	MWS0064SB	0.8	3.2	7.6	47.1	47	0.12	3	1
0.64	5	●	MWS0064LB	3.3	8.1	12.1	47.1	47	0.13	3	3
0.64	12	●	MWS0064XB	7.8	16.1	20.1	47.1	47	0.13	3	3
0.65	1	●	MWS0065SB	0.8	3.2	7.6	47.1	47	0.12	3	1
0.65	5	●	MWS0065LB	3.4	8.1	12.1	47.1	47	0.13	3	3
0.65	12	●	MWS0065XB	7.9	16.1	20.1	47.1	47	0.13	3	3

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
0.66	1	●	MWS0066SB	0.8	3.5	7.9	47.1	47	0.12	3	1
0.66	5	●	MWS0066LB	3.4	8.1	12.1	47.1	47	0.14	3	3
0.66	12	●	MWS0066XB	8.1	16.1	20.1	47.1	47	0.14	3	3
0.67	1	●	MWS0067SB	0.8	3.5	7.8	47.1	47	0.12	3	1
0.67	5	●	MWS0067LB	3.5	8.1	12.1	47.1	47	0.14	3	3
0.67	12	●	MWS0067XB	8.2	16.1	20.1	47.1	47	0.14	3	3
0.68	1	●	MWS0068SB	0.8	3.5	7.8	47.1	47	0.12	3	1
0.68	5	●	MWS0068LB	3.5	8.1	12.1	47.1	47	0.14	3	3
0.68	12	●	MWS0068XB	8.3	16.1	20.1	47.1	47	0.14	3	3
0.69	1	●	MWS0069SB	0.8	3.5	7.8	47.1	47	0.13	3	1
0.69	5	●	MWS0069LB	3.6	8.1	12.1	47.1	47	0.14	3	3
0.69	12	●	MWS0069XB	8.4	16.1	20.1	47.1	47	0.14	3	3
0.70	1	●	MWS0070SB	0.8	3.5	7.8	47.1	47	0.13	3	1
0.70	5	●	MWS0070LB	3.6	8.1	12.1	47.1	47	0.14	3	3
0.70	12	●	MWS0070XB	8.5	16.1	20.1	47.1	47	0.14	3	3
0.71	1	●	MWS0071SB	0.8	3.7	8.0	50.1	50	0.13	3	1
0.71	5	●	MWS0071LB	3.7	10.1	14.1	50.1	50	0.15	3	3
0.71	12	●	MWS0071XB	8.7	20.1	24.1	50.1	50	0.15	3	3
0.72	1	●	MWS0072SB	0.9	3.7	8.0	50.1	50	0.13	3	1
0.72	5	●	MWS0072LB	3.8	10.1	14.1	50.1	50	0.15	3	3
0.72	12	●	MWS0072XB	8.8	20.1	24.1	50.1	50	0.15	3	3
0.73	1	●	MWS0073SB	0.9	3.7	7.9	50.1	50	0.13	3	1
0.73	5	●	MWS0073LB	3.8	10.1	14.1	50.1	50	0.15	3	3
0.73	12	●	MWS0073XB	8.9	20.1	24.1	50.1	50	0.15	3	3
0.74	1	●	MWS0074SB	0.9	3.7	7.9	50.1	50	0.13	3	1
0.74	5	●	MWS0074LB	3.9	10.1	14.1	50.1	50	0.15	3	3
0.74	12	●	MWS0074XB	9.0	20.1	24.1	50.1	50	0.15	3	3
0.75	1	●	MWS0075SB	0.9	3.7	7.9	50.1	50	0.14	3	1
0.75	5	●	MWS0075LB	3.9	10.1	14.1	50.1	50	0.16	3	3
0.75	12	●	MWS0075XB	9.2	20.1	24.1	50.1	50	0.16	3	3
0.76	1	●	MWS0076SB	0.9	4.0	8.2	50.1	50	0.14	3	1
0.76	5	●	MWS0076LB	4.0	10.1	14.1	50.1	50	0.16	3	3
0.76	12	●	MWS0076XB	9.3	20.1	24.1	50.1	50	0.16	3	3
0.77	1	●	MWS0077SB	0.9	4.0	8.2	50.1	50	0.14	3	1
0.77	5	●	MWS0077LB	4.0	10.1	14.1	50.1	50	0.16	3	3
0.77	12	●	MWS0077XB	9.4	20.1	24.1	50.1	50	0.16	3	3
0.78	1	●	MWS0078SB	0.9	4.0	8.1	50.1	50	0.14	3	1
0.78	5	●	MWS0078LB	4.1	10.1	14.1	50.1	50	0.16	3	3
0.78	12	●	MWS0078XB	9.5	20.1	24.1	50.1	50	0.16	3	3
0.79	1	●	MWS0079SB	0.9	4.0	8.1	50.1	50	0.14	3	1
0.79	5	●	MWS0079LB	4.1	10.1	14.1	50.1	50	0.16	3	3
0.79	12	●	MWS0079XB	9.6	20.1	24.1	50.1	50	0.16	3	3
0.80	1	●	MWS0080SB	1.0	4.1	8.2	50.2	50	0.15	3	1
0.80	5	●	MWS0080LB	4.2	10.2	14.2	50.2	50	0.17	3	3
0.80	12	●	MWS0080XB	9.8	20.2	24.2	50.2	50	0.17	3	3
0.81	1	●	MWS0081SB	1.0	4.3	8.4	50.2	50	0.15	3	1
0.81	5	●	MWS0081LB	4.2	10.2	14.2	50.2	50	0.17	3	3
0.81	12	●	MWS0081XB	9.9	20.2	24.2	50.2	50	0.17	3	3

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

P

钻头

●: 标准库存品

切削条件 > P115
 使用要点 > P119,P120
 技术资料 > R001

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
0.82	1	●	MWS0082SB	1.0	4.3	8.4	50.2	50	0.15	3	1
0.82	5	●	MWS0082LB	4.3	10.2	14.2	50.2	50	0.17	3	3
0.82	12	●	MWS0082XB	10.0	20.2	24.2	50.2	50	0.17	3	3
0.83	1	●	MWS0083SB	1.0	4.3	8.3	50.2	50	0.15	3	1
0.83	5	●	MWS0083LB	4.3	10.2	14.2	50.2	50	0.17	3	3
0.83	12	●	MWS0083XB	10.1	20.2	24.2	50.2	50	0.17	3	3
0.84	1	●	MWS0084SB	1.0	4.3	8.3	50.2	50	0.15	3	1
0.84	5	●	MWS0084LB	4.4	10.2	14.2	50.2	50	0.17	3	3
0.84	12	●	MWS0084XB	10.3	20.2	24.2	50.2	50	0.17	3	3
0.85	1	●	MWS0085SB	1.0	4.3	8.3	50.2	50	0.15	3	1
0.85	5	●	MWS0085LB	4.4	10.2	14.2	50.2	50	0.18	3	3
0.85	12	●	MWS0085XB	10.4	20.2	24.2	50.2	50	0.18	3	3
0.86	1	●	MWS0086SB	1.0	4.6	8.6	50.2	50	0.16	3	1
0.86	5	●	MWS0086LB	4.5	10.2	14.2	50.2	50	0.18	3	3
0.86	12	●	MWS0086XB	10.5	20.2	24.2	50.2	50	0.18	3	3
0.87	1	●	MWS0087SB	1.0	4.6	8.6	50.2	50	0.16	3	1
0.87	5	●	MWS0087LB	4.5	10.2	14.2	50.2	50	0.18	3	3
0.87	12	●	MWS0087XB	10.6	20.2	24.2	50.2	50	0.18	3	3
0.88	1	●	MWS0088SB	1.0	4.6	8.6	50.2	50	0.16	3	1
0.88	5	●	MWS0088LB	4.6	10.2	14.2	50.2	50	0.18	3	3
0.88	12	●	MWS0088XB	10.7	20.2	24.2	50.2	50	0.18	3	3
0.89	1	●	MWS0089SB	1.1	4.6	8.5	50.2	50	0.16	3	1
0.89	5	●	MWS0089LB	4.6	10.2	14.2	50.2	50	0.18	3	3
0.89	12	●	MWS0089XB	10.9	20.2	24.2	50.2	50	0.18	3	3
0.90	1	●	MWS0090SB	1.1	4.6	8.5	50.2	50	0.16	3	1
0.90	5	●	MWS0090LB	4.7	10.2	14.2	50.2	50	0.19	3	3
0.90	12	●	MWS0090XB	11.0	20.2	24.2	50.2	50	0.19	3	3
0.91	1	●	MWS0091SB	1.1	4.8	8.7	50.2	50	0.17	3	1
0.91	5	●	MWS0091LB	4.7	10.2	14.2	50.2	50	0.19	3	3
0.91	12	●	MWS0091XB	11.1	20.2	24.2	50.2	50	0.19	3	3
0.92	1	●	MWS0092SB	1.1	4.8	8.7	50.2	50	0.17	3	1
0.92	5	●	MWS0092LB	4.8	10.2	14.2	50.2	50	0.19	3	3
0.92	12	●	MWS0092XB	11.2	20.2	24.2	50.2	50	0.19	3	3
0.93	1	●	MWS0093SB	1.1	4.8	8.7	50.2	50	0.17	3	1
0.93	5	●	MWS0093LB	4.8	10.2	14.2	50.2	50	0.19	3	3
0.93	12	●	MWS0093XB	11.4	20.2	24.2	50.2	50	0.19	3	3
0.94	1	●	MWS0094SB	1.1	4.8	8.6	50.2	50	0.17	3	1
0.94	5	●	MWS0094LB	4.9	10.2	14.2	50.2	50	0.19	3	3
0.94	12	●	MWS0094XB	11.5	20.2	24.2	50.2	50	0.19	3	3
0.95	1	●	MWS0095SB	1.1	4.8	8.6	50.2	50	0.17	3	1
0.95	5	●	MWS0095LB	5.0	10.2	14.2	50.2	50	0.20	3	3
0.95	12	●	MWS0095XB	11.6	20.2	24.2	50.2	50	0.20	3	3
0.96	1	●	MWS0096SB	1.1	5.1	8.9	50.2	50	0.17	3	1
0.96	5	●	MWS0096LB	5.0	10.2	14.2	50.2	50	0.20	3	3
0.96	12	●	MWS0096XB	11.7	20.2	24.2	50.2	50	0.20	3	3
0.97	1	●	MWS0097SB	1.2	5.1	8.9	50.2	50	0.18	3	1
0.97	5	●	MWS0097LB	5.1	10.2	14.2	50.2	50	0.20	3	3
0.97	12	●	MWS0097XB	11.8	20.2	24.2	50.2	50	0.20	3	3

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
0.98	1	●	MWS0098SB	1.2	5.1	8.9	50.2	50	0.18	3	1
0.98	5	●	MWS0098LB	5.1	10.2	14.2	50.2	50	0.20	3	3
0.98	12	●	MWS0098XB	12.0	20.2	24.2	50.2	50	0.20	3	3
0.99	1	●	MWS0099SB	1.2	5.1	8.9	50.2	50	0.18	3	1
0.99	5	●	MWS0099LB	5.2	10.2	14.2	50.2	50	0.21	3	3
0.99	12	●	MWS0099XB	12.1	20.2	24.2	50.2	50	0.21	3	3
1.00	1	●	MWS0100SB	1.2	5.2	8.9	55.2	55	0.2	3	1
1.00	5	●	MWS0100LB	5.2	11.2	15.2	55.2	55	0.2	3	3
1.00	12	●	MWS0100XB	12.2	23.2	27.2	55.2	55	0.2	3	3
1.00	20	●	MWS0100X20DB	20.2	24.2	28.2	60.2	60	0.2	3	3
1.00	25	●	MWS0100X25DB	25.2	28.2	32.2	66.2	66	0.2	3	3
1.00	30	●	MWS0100X30DB	30.2	33.2	37.2	72.2	72	0.2	3	3
1.05	1	□	MWS0105SB	1.3	5.4	9.0	55.2	55	0.2	3	1
1.05	20	□	MWS0105X20DB	21.2	24.2	28.2	60.2	60	0.2	3	3
1.05	25	□	MWS0105X25DB	26.5	29.2	33.2	66.2	66	0.2	3	3
1.05	30	□	MWS0105X30DB	31.7	35.2	38.2	72.2	72	0.2	3	3
1.10	1	●	MWS0110SB	1.3	5.6	9.1	55.2	55	0.2	3	1
1.10	5	●	MWS0110LB	5.7	17.2	21.2	55.2	55	0.2	3	3
1.10	12	●	MWS0110XB	13.4	23.2	27.2	55.2	55	0.2	3	3
1.10	20	●	MWS0110X20DB	22.2	25.2	29.2	60.2	60	0.2	3	3
1.10	25	●	MWS0110X25DB	27.7	31.2	34.2	66.2	66	0.2	3	3
1.10	30	●	MWS0110X30DB	33.2	36.2	40.2	72.2	72	0.2	3	3
1.15	1	□	MWS0115SB	1.4	5.8	9.3	55.2	55	0.2	3	1
1.15	20	□	MWS0115X20DB	23.2	26.2	30.2	60.2	60	0.2	3	3
1.15	25	□	MWS0115X25DB	29.0	32.2	36.2	66.2	66	0.2	3	3
1.15	30	□	MWS0115X30DB	34.7	38.2	41.2	72.2	72	0.2	3	3
1.20	1	●	MWS0120SB	1.4	6.2	9.6	55.2	55	0.2	3	1
1.20	5	●	MWS0120LB	6.3	17.2	20.2	55.2	55	0.2	3	3
1.20	12	●	MWS0120XB	14.7	23.2	26.2	55.2	55	0.2	3	3
1.20	20	●	MWS0120X20DB	24.3	28.2	31.2	60.2	60	0.2	3	3
1.20	25	●	MWS0120X25DB	30.3	34.2	37.2	66.2	66	0.2	3	3
1.20	30	●	MWS0120X30DB	36.3	40.2	43.2	72.2	72	0.2	3	3
1.25	1	□	MWS0125SB	1.5	6.4	9.7	55.2	55	0.2	3	1
1.25	20	□	MWS0125X20DB	25.3	29.3	32.3	68.3	68	0.3	3	3
1.25	25	□	MWS0125X25DB	31.6	35.3	38.3	74.3	74	0.3	3	3
1.25	30	□	MWS0125X30DB	37.8	41.3	45.3	82.3	82	0.3	3	3
1.30	1	●	MWS0130SB	1.5	6.6	9.8	55.2	55	0.2	3	1
1.30	5	●	MWS0130LB	6.8	17.3	20.3	55.3	55	0.3	3	3
1.30	12	●	MWS0130XB	15.9	23.3	26.3	55.3	55	0.3	3	3
1.30	20	●	MWS0130X20DB	26.3	30.3	33.3	68.3	68	0.3	3	3
1.30	25	●	MWS0130X25DB	32.8	36.3	40.3	74.3	74	0.3	3	3
1.30	30	●	MWS0130X30DB	39.3	43.3	46.3	82.3	82	0.3	3	3
1.35	1	□	MWS0135SB	1.7	6.8	9.9	55.2	55	0.3	3	1
1.35	20	□	MWS0135X20DB	27.3	31.3	34.3	68.3	68	0.3	3	3
1.35	25	□	MWS0135X25DB	34.1	38.3	41.3	74.3	74	0.3	3	3
1.35	30	□	MWS0135X30DB	40.8	45.3	48.3	82.3	82	0.3	3	3
1.40	1	●	MWS0140SB	1.7	7.3	10.3	55.3	55	0.3	3	1
1.40	5	●	MWS0140LB	7.3	17.3	20.3	55.3	55	0.3	3	3

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●: 标准库存品

□: 预订生产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
1.40	12	●	MWS0140XB	17.1	23.3	26.3	55.3	55	0.3	3	3
1.40	20	●	MWS0140X20DB	28.3	32.3	35.3	68.3	68	0.3	3	3
1.40	25	●	MWS0140X25DB	35.3	39.3	42.3	74.3	74	0.3	3	3
1.40	30	●	MWS0140X30DB	42.3	46.3	49.3	82.3	82	0.3	3	3
1.45	1	□	MWS0145SB	1.8	7.5	10.4	55.3	55	0.3	3	1
1.45	20	□	MWS0145X20DB	29.3	33.3	36.3	68.3	68	0.3	3	3
1.45	25	□	MWS0145X25DB	36.6	41.3	43.3	74.3	74	0.3	3	3
1.45	30	□	MWS0145X30DB	43.8	48.3	51.3	82.3	82	0.3	3	3
1.50	1	●	MWS0150SB	1.8	7.7	10.5	55.3	55	0.3	3	1
1.50	5	●	MWS0150LB	7.8	17.3	20.3	55.3	55	0.3	3	3
1.50	12	●	MWS0150XB	18.3	23.3	26.3	55.3	55	0.3	3	3
1.50	20	●	MWS0150X20DB	30.3	35.3	37.3	68.3	68	0.3	3	3
1.50	25	●	MWS0150X25DB	37.8	42.3	45.3	74.3	74	0.3	3	3
1.50	30	●	MWS0150X30DB	45.3	50.3	52.3	82.3	82	0.3	3	3
1.55	1	□	MWS0155SB	1.9	7.9	10.6	68.3	68	0.3	3	1
1.55	20	□	MWS0155X20DB	31.3	36.3	38.3	78.3	78	0.3	3	3
1.55	25	□	MWS0155X25DB	39.1	43.3	46.3	86.3	86	0.3	3	3
1.55	30	□	MWS0155X30DB	46.8	51.3	54.3	95.3	95	0.3	3	3
1.60	1	●	MWS0160SB	1.9	8.3	10.9	68.3	68	0.3	3	1
1.60	5	●	MWS0160LB	8.3	22.3	25.3	68.3	68	0.3	3	3
1.60	12	●	MWS0160XB	19.5	30.3	33.3	68.3	68	0.3	3	3
1.60	20	●	MWS0160X20DB	32.3	37.3	39.3	78.3	78	0.3	3	3
1.60	25	●	MWS0160X25DB	40.3	45.3	47.3	86.3	86	0.3	3	3
1.60	30	●	MWS0160X30DB	48.3	53.3	55.3	95.3	95	0.3	3	3
1.65	1	□	MWS0165SB	2.0	8.5	11.0	68.3	68	0.3	3	1
1.65	20	□	MWS0165X20DB	33.3	38.3	40.3	78.3	78	0.3	3	3
1.65	25	□	MWS0165X25DB	41.6	46.3	49.3	86.3	86	0.3	3	3
1.65	30	□	MWS0165X30DB	49.8	54.3	57.3	95.3	95	0.3	3	3
1.70	1	●	MWS0170SB	2.0	8.7	11.1	68.3	68	0.3	3	1
1.70	5	●	MWS0170LB	8.9	22.4	24.4	68.4	68	0.4	3	3
1.70	12	●	MWS0170XB	20.8	30.4	32.4	68.4	68	0.4	3	3
1.70	20	●	MWS0170X20DB	34.4	39.4	42.4	78.4	78	0.4	3	3
1.70	25	●	MWS0170X25DB	42.9	48.4	50.4	86.4	86	0.4	3	3
1.70	30	●	MWS0170X30DB	51.4	56.4	59.4	95.4	95	0.4	3	3
1.75	1	□	MWS0175SB	2.1	8.9	11.2	68.3	68	0.3	3	1
1.75	20	□	MWS0175X20DB	35.4	40.4	43.4	84.4	84	0.4	3	3
1.75	25	□	MWS0175X25DB	44.2	49.4	51.4	94.4	94	0.4	3	3
1.75	30	□	MWS0175X30DB	52.9	58.4	60.4	102.4	102	0.4	3	3
1.80	1	●	MWS0180SB	2.1	9.3	11.5	68.3	68	0.3	3	1
1.80	5	●	MWS0180LB	9.4	22.4	24.4	68.4	68	0.4	3	3
1.80	12	●	MWS0180XB	22.0	30.4	32.4	68.4	68	0.4	3	3
1.80	20	●	MWS0180X20DB	36.4	41.4	44.4	84.4	84	0.4	3	3
1.80	25	●	MWS0180X25DB	45.4	50.4	53.4	94.4	94	0.4	3	3
1.80	30	●	MWS0180X30DB	54.4	59.4	62.4	102.4	102	0.4	3	3
1.85	1	□	MWS0185SB	2.2	9.5	11.6	68.3	68	0.3	3	1
1.85	20	□	MWS0185X20DB	37.4	43.4	45.4	84.4	84	0.4	3	3
1.85	25	□	MWS0185X25DB	46.7	52.4	54.4	94.4	94	0.4	3	3
1.85	30	□	MWS0185X30DB	55.9	61.4	63.4	102.4	102	0.4	3	3

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
1.90	1	●	MWS0190SB	2.3	9.7	11.8	68.3	68	0.3	3	1
1.90	5	●	MWS0190LB	9.9	22.4	24.4	68.4	68	0.4	3	3
1.90	12	●	MWS0190XB	23.2	30.4	32.4	68.4	68	0.4	3	3
1.90	20	●	MWS0190X20DB	38.4	44.4	46.4	84.4	84	0.4	3	3
1.90	25	●	MWS0190X25DB	47.9	53.4	55.4	94.4	94	0.4	3	3
1.90	30	●	MWS0190X30DB	57.4	63.4	65.4	102.4	102	0.4	3	3
1.95	1	□	MWS0195SB	2.4	10.0	12.0	68.4	68	0.4	3	1
1.95	20	□	MWS0195X20DB	39.4	45.4	47.4	84.4	84	0.4	3	3
1.95	25	□	MWS0195X25DB	49.2	55.4	57.4	94.4	94	0.4	3	3
1.95	30	□	MWS0195X30DB	58.9	64.4	66.4	102.4	102	0.4	3	3
2.00	1	●	MWS0200SB	2.4	10.4	12.3	68.4	68	0.4	3	1
2.00	5	●	MWS0200LB	10.4	22.4	24.4	68.4	68	0.4	3	3
2.00	12	●	MWS0200XB	24.4	30.4	32.4	68.4	68	0.4	3	3
2.00	20	●	MWS0200X20DB	40.4	46.4	48.4	84.4	84	0.4	3	3
2.00	25	●	MWS0200X25DB	50.4	56.4	58.4	94.4	94	0.4	3	3
2.00	30	●	MWS0200X30DB	60.4	66.4	68.4	102.4	102	0.4	3	3
2.05	1	□	MWS0205SB	2.4	10.5	12.3	74.3	74	0.3	3	1
2.05	20	□	MWS0205X20DB	41.4	47.4	49.4	94.4	94	0.4	3	3
2.05	25	□	MWS0205X25DB	51.7	57.4	59.4	107.4	107	0.4	3	3
2.05	30	□	MWS0205X30DB	61.9	68.4	69.4	118.4	118	0.4	3	3
2.10	1	●	MWS0210SB	2.4	10.7	12.4	74.3	74	0.3	3	1
2.10	5	●	MWS0210LB	10.9	28.4	30.4	74.4	74	0.4	3	3
2.10	12	●	MWS0210XB	25.6	38.4	40.4	74.4	74	0.4	3	3
2.10	20	●	MWS0210X20DB	42.4	48.4	50.4	94.4	94	0.4	3	3
2.10	25	●	MWS0210X25DB	52.9	59.4	60.4	107.4	107	0.4	3	3
2.10	30	●	MWS0210X30DB	63.4	69.4	71.4	118.4	118	0.4	3	3
2.15	1	□	MWS0215SB	2.5	10.9	12.5	74.3	74	0.3	3	1
2.15	20	□	MWS0215X20DB	43.4	49.4	51.4	94.4	94	0.4	3	3
2.15	25	□	MWS0215X25DB	54.2	60.4	62.4	107.4	107	0.4	3	3
2.15	30	□	MWS0215X30DB	64.9	71.4	73.4	118.4	118	0.4	3	3
2.20	1	●	MWS0220SB	2.6	11.3	12.8	74.3	74	0.3	3	1
2.20	5	●	MWS0220LB	11.4	28.4	29.4	74.4	74	0.4	3	3
2.20	12	●	MWS0220XB	26.8	38.4	39.4	74.4	74	0.4	3	3
2.20	20	●	MWS0220X20DB	44.4	51.4	52.4	94.4	94	0.4	3	3
2.20	25	●	MWS0220X25DB	55.4	62.4	63.4	107.4	107	0.4	3	3
2.20	30	●	MWS0220X30DB	66.4	73.4	74.4	118.4	118	0.4	3	3
2.25	1	□	MWS0225SB	2.7	11.6	13.0	74.4	74	0.4	3	1
2.25	20	□	MWS0225X20DB	45.4	52.4	53.4	94.4	94	0.4	3	3
2.25	25	□	MWS0225X25DB	56.7	63.4	64.4	107.4	107	0.4	3	3
2.25	30	□	MWS0225X30DB	67.9	74.4	76.4	118.4	118	0.4	3	3
2.30	1	●	MWS0230SB	2.7	11.8	13.1	74.4	74	0.4	3	1
2.30	5	●	MWS0230LB	11.9	28.4	29.4	74.4	74	0.4	3	3
2.30	12	●	MWS0230XB	28.0	38.4	39.4	74.4	74	0.4	3	3
2.30	20	●	MWS0230X20DB	46.4	53.4	54.4	94.4	94	0.4	3	3
2.30	25	●	MWS0230X25DB	57.9	64.4	66.4	107.4	107	0.4	3	3
2.30	30	●	MWS0230X30DB	69.4	76.4	77.4	118.4	118	0.4	3	3
2.35	1	□	MWS0235SB	2.8	12.0	13.2	74.4	74	0.4	3	1
2.35	20	□	MWS0235X20DB	47.4	54.4	55.4	94.4	94	0.4	3	3

P

钻头

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
2.35	25	□	MWS0235X25DB	59.2	66.4	67.4	107.4	107	0.4	3	3
2.35	30	□	MWS0235X30DB	70.9	78.4	79.4	118.4	118	0.4	3	3
2.40	1	●	MWS0240SB	2.8	12.4	13.5	74.4	74	0.4	3	1
2.40	5	●	MWS0240LB	12.4	28.4	29.4	74.4	74	0.4	3	3
2.40	12	●	MWS0240XB	29.2	38.4	39.4	74.4	74	0.4	3	3
2.40	20	●	MWS0240X20DB	48.4	55.4	56.4	94.4	94	0.4	3	3
2.40	25	●	MWS0240X25DB	60.4	67.4	68.4	107.4	107	0.4	3	3
2.40	30	●	MWS0240X30DB	72.4	79.4	80.4	118.4	118	0.4	3	3
2.45	1	□	MWS0245SB	2.9	12.6	13.6	74.4	74	0.4	3	1
2.45	20	□	MWS0245X20DB	49.5	56.4	57.4	94.4	94	0.4	3	3
2.45	25	□	MWS0245X25DB	61.8	69.4	70.4	107.4	107	0.4	3	3
2.45	30	□	MWS0245X30DB	74.0	81.4	82.4	118.4	118	0.4	3	3
2.50	1	●	MWS0250SB	2.9	12.8	13.7	74.4	74	0.4	3	1
2.50	5	●	MWS0250LB	13.0	28.5	29.5	74.5	74	0.5	3	3
2.50	12	●	MWS0250XB	30.5	38.5	39.5	74.5	74	0.5	3	3
2.50	20	●	MWS0250X20DB	50.5	58.5	59.5	94.5	94	0.5	3	3
2.50	25	●	MWS0250X25DB	63.0	70.5	71.5	107.5	107	0.5	3	3
2.50	30	●	MWS0250X30DB	75.5	83.5	84.5	118.5	118	0.5	3	3
2.55	1	□	MWS0255SB	3.1	13.0	13.0	81.4	81	0.4	3	2
2.55	20	□	MWS0255X20DB	51.5	59.5	59.5	103.5	103	0.5	3	4
2.55	25	□	MWS0255X25DB	64.3	71.5	71.5	117.5	117	0.5	3	4
2.55	30	□	MWS0255X30DB	77.0	84.5	84.5	132.5	132	0.5	3	4
2.60	1	●	MWS0260SB	3.1	13.4	13.4	81.4	81	0.4	3	2
2.60	5	●	MWS0260LB	13.5	33.5	33.5	81.5	81	0.5	3	4
2.60	12	●	MWS0260XB	31.7	45.5	45.5	81.5	81	0.5	3	4
2.60	20	●	MWS0260X20DB	52.5	60.5	60.5	103.5	103	0.5	3	4
2.60	25	●	MWS0260X25DB	65.5	73.5	73.5	117.5	117	0.5	3	4
2.60	30	●	MWS0260X30DB	78.5	86.5	86.5	132.5	132	0.5	3	4
2.65	1	□	MWS0265SB	3.2	13.6	13.6	81.4	81	0.4	3	2
2.65	20	□	MWS0265X20DB	53.5	61.5	61.5	103.5	103	0.5	3	4
2.65	25	□	MWS0265X25DB	66.8	74.5	74.5	117.5	117	0.5	3	4
2.65	30	□	MWS0265X30DB	80.0	87.5	87.5	132.5	132	0.5	3	4
2.70	1	●	MWS0270SB	3.2	13.8	13.8	81.4	81	0.4	3	2
2.70	5	●	MWS0270LB	14.0	33.5	33.5	81.5	81	0.5	3	4
2.70	12	●	MWS0270XB	32.9	45.5	45.5	81.5	81	0.5	3	4
2.70	20	●	MWS0270X20DB	54.5	62.5	62.5	103.5	103	0.5	3	4
2.70	25	●	MWS0270X25DB	68.0	76.5	76.5	117.5	117	0.5	3	4
2.70	30	●	MWS0270X30DB	81.5	89.5	89.5	132.5	132	0.5	3	4
2.75	1	□	MWS0275SB	3.3	14.0	14.0	81.4	81	0.4	3	2
2.75	20	□	MWS0275X20DB	55.5	63.5	63.5	103.5	103	0.5	3	4
2.75	25	□	MWS0275X25DB	69.3	77.5	77.5	117.5	117	0.5	3	4
2.75	30	□	MWS0275X30DB	83.0	91.5	91.5	132.5	132	0.5	3	4
2.80	1	●	MWS0280SB	3.3	14.4	14.4	81.4	81	0.4	3	2
2.80	5	●	MWS0280LB	14.5	33.5	33.5	81.5	81	0.5	3	4
2.80	12	●	MWS0280XB	34.1	45.5	45.5	81.5	81	0.5	3	4
2.80	20	●	MWS0280X20DB	56.5	64.5	64.5	103.5	103	0.5	3	4
2.80	25	●	MWS0280X25DB	70.5	78.5	78.5	117.5	117	0.5	3	4
2.80	30	●	MWS0280X30DB	84.5	92.5	92.5	132.5	132	0.5	3	4

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
2.85	1	□	MWS0285SB	3.4	14.6	14.6	81.4	81	0.4	3	2
2.85	20	□	MWS0285X20DB	57.5	66.5	66.5	103.5	103	0.5	3	4
2.85	25	□	MWS0285X25DB	71.8	80.5	80.5	117.5	117	0.5	3	4
2.85	30	□	MWS0285X30DB	86.0	94.5	94.5	132.5	132	0.5	3	4
2.90	1	●	MWS0290SB	3.4	14.9	14.9	81.5	81	0.5	3	2
2.90	5	●	MWS0290LB	15.0	33.5	33.5	81.5	81	0.5	3	4
2.90	12	●	MWS0290XB	35.3	45.5	45.5	81.5	81	0.5	3	4
2.90	20	●	MWS0290X20DB	58.5	67.5	67.5	103.5	103	0.5	3	4
2.90	25	●	MWS0290X25DB	73.0	81.5	81.5	117.5	117	0.5	3	4
2.90	30	●	MWS0290X30DB	87.5	96.5	96.5	132.5	132	0.5	3	4
2.95	1	□	MWS0295SB	3.5	15.1	15.1	81.5	81	0.5	3	2
2.95	20	□	MWS0295X20DB	59.5	68.5	68.5	103.5	103	0.5	3	4
2.95	25	□	MWS0295X25DB	74.3	83.5	83.5	117.5	117	0.5	3	4
2.95	30	□	MWS0295X30DB	89.0	97.5	97.5	132.5	132	0.5	3	4
3.00	3	▲	MWS0300MB	9.5	24.5	24.5	72.5	72	0.5	3	5
3.00	5	▲	MWS0300LB	15.5	33.5	33.5	81.5	81	0.5	3	5
3.00	8	▲	MWS0300X8DB	24.5	35.5	35.5	81.5	81	0.5	3	5
3.00	10	▲	MWS0300X10DB	30.5	39.5	42.5	90.5	90	0.5	3	6
3.00	15	▲	MWS0300X15DB	45.5	54.5	57.5	105.5	105	0.5	3	6
3.00	20	▲	MWS0300X20DB	60.5	69.5	72.5	120.5	120	0.5	3	6
3.00	25	▲	MWS0300X25DB	75.5	84.5	87.5	135.5	135	0.5	3	6
3.00	30	▲	MWS0300X30DB	90.5	99.5	102.5	150.5	150	0.5	3	6
3.10	3	▲	MWS0310MB	9.9	28.6	28.6	76.6	76	0.6	4	5
3.10	5	▲	MWS0310LB	16.1	39.6	39.6	87.6	87	0.6	4	5
3.10	8	▲	MWS0310X8DB	25.4	41.6	41.6	87.6	87	0.6	4	5
3.10	10	▲	MWS0310X10DB	31.6	46.6	49.6	97.6	97	0.6	4	6
3.10	15	▲	MWS0310X15DB	47.1	63.6	66.6	114.6	114	0.6	4	6
3.10	20	▲	MWS0310X20DB	62.6	81.6	84.6	132.6	132	0.6	4	6
3.10	25	▲	MWS0310X25DB	78.1	98.6	101.6	149.6	149	0.6	4	6
3.10	30	▲	MWS0310X30DB	93.6	116.6	119.6	167.6	167	0.6	4	6
3.20	3	▲	MWS0320MB	10.2	28.6	28.6	76.6	76	0.6	4	5
3.20	5	▲	MWS0320LB	16.6	39.6	39.6	87.6	87	0.6	4	5
3.20	8	▲	MWS0320X8DB	26.2	41.6	41.6	87.6	87	0.6	4	5
3.20	10	▲	MWS0320X10DB	32.6	46.6	49.6	97.6	97	0.6	4	6
3.20	15	▲	MWS0320X15DB	48.6	63.6	66.6	114.6	114	0.6	4	6
3.20	20	▲	MWS0320X20DB	64.6	81.6	84.6	132.6	132	0.6	4	6
3.20	25	▲	MWS0320X25DB	80.6	98.6	101.6	149.6	149	0.6	4	6
3.20	30	▲	MWS0320X30DB	96.6	116.6	119.6	167.6	167	0.6	4	6
3.30	3	▲	MWS0330MB	10.5	28.6	28.6	76.6	76	0.6	4	5
3.30	5	▲	MWS0330LB	17.1	39.6	39.6	87.6	87	0.6	4	5
3.30	8	▲	MWS0330X8DB	27.0	41.6	41.6	87.6	87	0.6	4	5
3.30	10	▲	MWS0330X10DB	33.6	46.6	49.6	97.6	97	0.6	4	6
3.30	15	▲	MWS0330X15DB	50.1	63.6	66.6	114.6	114	0.6	4	6
3.30	20	▲	MWS0330X20DB	66.6	81.6	84.6	132.6	132	0.6	4	6
3.30	25	▲	MWS0330X25DB	83.1	98.6	101.6	149.6	149	0.6	4	6
3.30	30	▲	MWS0330X30DB	99.6	116.6	119.6	167.6	167	0.6	4	6
3.40	3	▲	MWS0340MB	10.8	28.6	28.6	76.6	76	0.6	4	5
3.40	5	▲	MWS0340LB	17.6	39.6	39.6	87.6	87	0.6	4	5

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●: 标准库存品 ▲: 预定在2020年3月底结束订货的产品

□: 预订生产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
3.40	8	▲	MWS0340X8DB	27.8	41.6	41.6	87.6	87	0.6	4	5
3.40	10	▲	MWS0340X10DB	34.6	46.6	49.6	97.6	97	0.6	4	6
3.40	15	▲	MWS0340X15DB	51.6	63.6	66.6	114.6	114	0.6	4	6
3.40	20	▲	MWS0340X20DB	68.6	81.6	84.6	132.6	132	0.6	4	6
3.40	25	▲	MWS0340X25DB	85.6	98.6	101.6	149.6	149	0.6	4	6
3.40	30	▲	MWS0340X30DB	102.6	116.6	119.6	167.6	167	0.6	4	6
3.50	3	▲	MWS0350MB	11.1	28.6	28.6	76.6	76	0.6	4	5
3.50	5	▲	MWS0350LB	18.1	39.6	39.6	87.6	87	0.6	4	5
3.50	8	▲	MWS0350X8DB	28.6	41.6	41.6	87.6	87	0.6	4	5
3.50	10	▲	MWS0350X10DB	35.6	46.6	49.6	97.6	97	0.6	4	6
3.50	15	▲	MWS0350X15DB	53.1	63.6	66.6	114.6	114	0.6	4	6
3.50	20	▲	MWS0350X20DB	70.6	81.6	84.6	132.6	132	0.6	4	6
3.50	25	▲	MWS0350X25DB	88.1	98.6	101.6	149.6	149	0.6	4	6
3.50	30	▲	MWS0350X30DB	105.6	116.6	119.6	167.6	167	0.6	4	6
3.6	3	▲	MWS0360MB	11.5	32.7	32.7	80.7	80	0.7	4	5
3.6	5	▲	MWS0360LB	18.7	44.7	44.7	92.7	92	0.7	4	5
3.6	8	▲	MWS0360X8DB	29.5	46.7	46.7	92.7	92	0.7	4	5
3.6	10	▲	MWS0360X10DB	36.7	52.7	55.7	103.7	103	0.7	4	6
3.6	15	▲	MWS0360X15DB	54.7	72.7	75.7	123.7	123	0.7	4	6
3.6	20	▲	MWS0360X20DB	72.7	92.7	95.7	143.7	143	0.7	4	6
3.6	25	▲	MWS0360X25DB	90.7	112.7	115.7	163.7	163	0.7	4	6
3.6	30	▲	MWS0360X30DB	108.7	132.7	135.7	183.7	183	0.7	4	6
3.7	3	▲	MWS0370MB	11.8	32.7	32.7	80.7	80	0.7	4	5
3.7	5	▲	MWS0370LB	19.2	44.7	44.7	92.7	92	0.7	4	5
3.7	8	▲	MWS0370X8DB	30.3	46.7	46.7	92.7	92	0.7	4	5
3.7	10	▲	MWS0370X10DB	37.7	52.7	55.7	103.7	103	0.7	4	6
3.7	15	▲	MWS0370X15DB	56.2	72.7	75.7	123.7	123	0.7	4	6
3.7	20	▲	MWS0370X20DB	74.7	92.7	95.7	143.7	143	0.7	4	6
3.7	25	▲	MWS0370X25DB	93.2	112.7	115.7	163.7	163	0.7	4	6
3.7	30	▲	MWS0370X30DB	111.7	132.7	135.7	183.7	183	0.7	4	6
3.8	3	▲	MWS0380MB	12.1	32.7	32.7	80.7	80	0.7	4	5
3.8	5	▲	MWS0380LB	19.7	44.7	44.7	92.7	92	0.7	4	5
3.8	8	▲	MWS0380X8DB	31.1	46.7	46.7	92.7	92	0.7	4	5
3.8	10	▲	MWS0380X10DB	38.7	52.7	55.7	103.7	103	0.7	4	6
3.8	15	▲	MWS0380X15DB	57.7	72.7	75.7	123.7	123	0.7	4	6
3.8	20	▲	MWS0380X20DB	76.7	92.7	95.7	143.7	143	0.7	4	6
3.8	25	▲	MWS0380X25DB	95.7	112.7	115.7	163.7	163	0.7	4	6
3.8	30	▲	MWS0380X30DB	114.7	132.7	135.7	183.7	183	0.7	4	6
3.9	3	▲	MWS0390MB	12.4	32.7	32.7	80.7	80	0.7	4	5
3.9	5	▲	MWS0390LB	20.2	44.7	44.7	92.7	92	0.7	4	5
3.9	8	▲	MWS0390X8DB	31.9	46.7	46.7	92.7	92	0.7	4	5
3.9	10	▲	MWS0390X10DB	39.7	52.7	55.7	103.7	103	0.7	4	6
3.9	15	▲	MWS0390X15DB	59.2	72.7	75.7	123.7	123	0.7	4	6
3.9	20	▲	MWS0390X20DB	78.7	92.7	95.7	143.7	143	0.7	4	6
3.9	25	▲	MWS0390X25DB	98.2	112.7	115.7	163.7	163	0.7	4	6
3.9	30	▲	MWS0390X30DB	117.7	132.7	135.7	183.7	183	0.7	4	6
4.0	3	▲	MWS0400MB	12.7	32.7	32.7	80.7	80	0.7	4	5
4.0	5	▲	MWS0400LB	20.7	44.7	44.7	92.7	92	0.7	4	5

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.0	8	▲	MWS0400X8DB	32.7	46.7	46.7	92.7	92	0.7	4	5
4.0	10	▲	MWS0400X10DB	40.7	52.7	55.7	103.7	103	0.7	4	6
4.0	15	▲	MWS0400X15DB	60.7	72.7	75.7	123.7	123	0.7	4	6
4.0	20	▲	MWS0400X20DB	80.7	92.7	95.7	143.7	143	0.7	4	6
4.0	25	▲	MWS0400X25DB	100.7	112.7	115.7	163.7	163	0.7	4	6
4.0	30	▲	MWS0400X30DB	120.7	132.7	135.7	183.7	183	0.7	4	6
4.1	3	▲	MWS0410MB	13.0	36.7	36.7	86.7	86	0.7	5	5
4.1	5	▲	MWS0410LB	21.2	50.7	50.7	100.7	100	0.7	5	5
4.1	8	▲	MWS0410X8DB	33.5	52.7	52.7	100.7	100	0.7	5	5
4.1	10	▲	MWS0410X10DB	41.7	59.7	62.7	112.7	112	0.7	5	6
4.1	15	▲	MWS0410X15DB	62.2	81.7	84.7	134.7	134	0.7	5	6
4.1	20	▲	MWS0410X20DB	82.7	104.7	107.7	157.7	157	0.7	5	6
4.1	25	▲	MWS0410X25DB	103.2	126.7	129.7	179.7	179	0.7	5	6
4.1	30	▲	MWS0410X30DB	123.7	149.7	152.7	202.7	202	0.7	5	6
4.2	3	▲	MWS0420MB	13.4	36.8	36.8	86.8	86	0.8	5	5
4.2	5	▲	MWS0420LB	21.8	50.8	50.8	100.8	100	0.8	5	5
4.2	8	▲	MWS0420X8DB	34.4	52.8	52.8	100.8	100	0.8	5	5
4.2	10	▲	MWS0420X10DB	42.8	59.8	62.8	112.8	112	0.8	5	6
4.2	15	▲	MWS0420X15DB	63.8	81.8	84.8	134.8	134	0.8	5	6
4.2	20	▲	MWS0420X20DB	84.8	104.8	107.8	157.8	157	0.8	5	6
4.2	25	▲	MWS0420X25DB	105.8	126.8	129.8	179.8	179	0.8	5	6
4.2	30	▲	MWS0420X30DB	126.8	149.8	152.8	202.8	202	0.8	5	6
4.3	3	▲	MWS0430MB	13.7	36.8	36.8	86.8	86	0.8	5	5
4.3	5	▲	MWS0430LB	22.3	50.8	50.8	100.8	100	0.8	5	5
4.3	8	▲	MWS0430X8DB	35.2	52.8	52.8	100.8	100	0.8	5	5
4.3	10	▲	MWS0430X10DB	43.8	59.8	62.8	112.8	112	0.8	5	6
4.3	15	▲	MWS0430X15DB	65.3	81.8	84.8	134.8	134	0.8	5	6
4.3	20	▲	MWS0430X20DB	86.8	104.8	107.8	157.8	157	0.8	5	6
4.3	25	▲	MWS0430X25DB	108.3	126.8	129.8	179.8	179	0.8	5	6
4.3	30	▲	MWS0430X30DB	129.8	149.8	152.8	202.8	202	0.8	5	6
4.4	3	▲	MWS0440MB	14.0	36.8	36.8	86.8	86	0.8	5	5
4.4	5	▲	MWS0440LB	22.8	50.8	50.8	100.8	100	0.8	5	5
4.4	8	▲	MWS0440X8DB	36.0	52.8	52.8	100.8	100	0.8	5	5
4.4	10	▲	MWS0440X10DB	44.8	59.8	62.8	112.8	112	0.8	5	6
4.4	15	▲	MWS0440X15DB	66.8	81.8	84.8	134.8	134	0.8	5	6
4.4	20	▲	MWS0440X20DB	88.8	104.8	107.8	157.8	157	0.8	5	6
4.4	25	▲	MWS0440X25DB	110.8	126.8	129.8	179.8	179	0.8	5	6
4.4	30	▲	MWS0440X30DB	132.8	149.8	152.8	202.8	202	0.8	5	6
4.5	3	▲	MWS0450MB	14.3	36.8	36.8	86.8	86	0.8	5	5
4.5	5	▲	MWS0450LB	23.3	50.8	50.8	100.8	100	0.8	5	5
4.5	8	▲	MWS0450X8DB	36.8	52.8	52.8	100.8	100	0.8	5	5
4.5	10	▲	MWS0450X10DB	45.8	59.8	62.8	112.8	112	0.8	5	6
4.5	15	▲	MWS0450X15DB	68.3	81.8	84.8	134.8	134	0.8	5	6
4.5	20	▲	MWS0450X20DB	90.8	104.8	107.8	157.8	157	0.8	5	6
4.5	25	▲	MWS0450X25DB	113.3	126.8	129.8	179.8	179	0.8	5	6
4.5	30	▲	MWS0450X30DB	135.8	149.8	152.8	202.8	202	0.8	5	6
4.6	3	▲	MWS0460MB	14.6	40.8	40.8	90.8	90	0.8	5	5
4.6	5	▲	MWS0460LB	23.8	55.8	55.8	105.8	105	0.8	5	5

P

钻头

DC (mm)	钻削孔深 (L/D)	VP/15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.6	8	▲	MWS0460X8DB	37.6	57.8	57.8	105.8	105	0.8	5	5
4.6	10	▲	MWS0460X10DB	46.8	65.8	68.8	118.8	118	0.8	5	6
4.6	15	▲	MWS0460X15DB	69.8	90.8	93.8	143.8	143	0.8	5	6
4.6	20	▲	MWS0460X20DB	92.8	115.8	118.8	168.8	168	0.8	5	6
4.6	25	▲	MWS0460X25DB	115.8	140.8	143.8	193.8	193	0.8	5	6
4.6	30	▲	MWS0460X30DB	138.8	165.8	168.8	218.8	218	0.8	5	6
4.7	3	▲	MWS0470MB	15.0	40.9	40.9	90.9	90	0.9	5	5
4.7	5	▲	MWS0470LB	24.4	55.9	55.9	105.9	105	0.9	5	5
4.7	8	▲	MWS0470X8DB	38.5	57.9	57.9	105.9	105	0.9	5	5
4.7	10	▲	MWS0470X10DB	47.9	65.9	68.9	118.9	118	0.9	5	6
4.7	15	▲	MWS0470X15DB	71.4	90.9	93.9	143.9	143	0.9	5	6
4.7	20	▲	MWS0470X20DB	94.9	115.9	118.9	168.9	168	0.9	5	6
4.7	25	▲	MWS0470X25DB	118.4	140.9	143.9	193.9	193	0.9	5	6
4.7	30	▲	MWS0470X30DB	141.9	165.9	168.9	218.9	218	0.9	5	6
4.8	3	▲	MWS0480MB	15.3	40.9	40.9	90.9	90	0.9	5	5
4.8	5	▲	MWS0480LB	24.9	55.9	55.9	105.9	105	0.9	5	5
4.8	8	▲	MWS0480X8DB	39.3	57.9	57.9	105.9	105	0.9	5	5
4.8	10	▲	MWS0480X10DB	48.9	65.9	68.9	118.9	118	0.9	5	6
4.8	15	▲	MWS0480X15DB	72.9	90.9	93.9	143.9	143	0.9	5	6
4.8	20	▲	MWS0480X20DB	96.9	115.9	118.9	168.9	168	0.9	5	6
4.8	25	▲	MWS0480X25DB	120.9	140.9	143.9	193.9	193	0.9	5	6
4.8	30	▲	MWS0480X30DB	144.9	165.9	168.9	218.9	218	0.9	5	6
4.9	3	▲	MWS0490MB	15.6	40.9	40.9	90.9	90	0.9	5	5
4.9	5	▲	MWS0490LB	25.4	55.9	55.9	105.9	105	0.9	5	5
4.9	8	▲	MWS0490X8DB	40.1	57.9	57.9	105.9	105	0.9	5	5
4.9	10	▲	MWS0490X10DB	49.9	65.9	68.9	118.9	118	0.9	5	6
4.9	15	▲	MWS0490X15DB	74.4	90.9	93.9	143.9	143	0.9	5	6
4.9	20	▲	MWS0490X20DB	98.9	115.9	118.9	168.9	168	0.9	5	6
4.9	25	▲	MWS0490X25DB	123.4	140.9	143.9	193.9	193	0.9	5	6
4.9	30	▲	MWS0490X30DB	147.9	165.9	168.9	218.9	218	0.9	5	6
5.0	3	▲	MWS0500MB	15.9	28.4	30.9	82.9	82	0.9	6	5
5.0	5	▲	MWS0500LB	25.9	44.9	48.9	100.9	100	0.9	6	5
5.0	8	▲	MWS0500X8DB	40.9	57.9	57.9	105.9	105	0.9	5	5
5.0	10	▲	MWS0500X10DB	50.9	65.9	68.9	118.9	118	0.9	5	6
5.0	15	▲	MWS0500X15DB	75.9	90.9	93.9	143.9	143	0.9	5	6
5.0	20	▲	MWS0500X20DB	100.9	115.9	118.9	168.9	168	0.9	5	6
5.0	25	▲	MWS0500X25DB	125.9	140.9	143.9	193.9	193	0.9	5	6
5.0	30	▲	MWS0500X30DB	150.9	165.9	168.9	218.9	218	0.9	5	6
5.1	3	▲	MWS0510MB	16.2	28.4	30.9	82.9	82	0.9	6	5
5.1	5	▲	MWS0510LB	26.4	44.9	48.9	100.9	100	0.9	6	5
5.1	8	▲	MWS0510X8DB	41.7	61.9	66.9	118.9	118	0.9	6	5
5.1	10	▲	MWS0510X10DB	51.9	72.9	75.9	127.9	127	0.9	6	6
5.1	15	▲	MWS0510X15DB	77.4	99.9	102.9	154.9	154	0.9	6	6
5.1	20	▲	MWS0510X20DB	102.9	127.9	130.9	182.9	182	0.9	6	6
5.1	25	▲	MWS0510X25DB	128.4	154.9	157.9	209.9	209	0.9	6	6
5.1	30	▲	MWS0510X30DB	153.9	182.9	185.9	237.9	237	0.9	6	6
5.2	3	▲	MWS0520MB	16.5	28.4	30.9	82.9	82	0.9	6	5
5.2	5	▲	MWS0520LB	26.9	44.9	48.9	100.9	100	0.9	6	5

DC (mm)	钻削孔深 (L/D)	VP/15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
5.2	8	▲	MWS0520X8DB	42.5	61.9	66.9	118.9	118	0.9	6	5
5.2	10	▲	MWS0520X10DB	52.9	72.9	75.9	127.9	127	0.9	6	6
5.2	15	▲	MWS0520X15DB	78.9	99.9	102.9	154.9	154	0.9	6	6
5.2	20	▲	MWS0520X20DB	104.9	127.9	130.9	182.9	182	0.9	6	6
5.2	25	▲	MWS0520X25DB	130.9	154.9	157.9	209.9	209	0.9	6	6
5.2	30	▲	MWS0520X30DB	156.9	182.9	185.9	237.9	237	0.9	6	6
5.3	3	▲	MWS0530MB	16.9	28.5	31.0	83.0	82	1.0	6	5
5.3	5	▲	MWS0530LB	27.5	45.0	49.0	101.0	100	1.0	6	5
5.3	8	▲	MWS0530X8DB	43.4	62.0	67.0	119.0	118	1.0	6	5
5.3	10	▲	MWS0530X10DB	54.0	73.0	76.0	128.0	127	1.0	6	6
5.3	15	▲	MWS0530X15DB	80.5	100.0	103.0	155.0	154	1.0	6	6
5.3	20	▲	MWS0530X20DB	107.0	128.0	131.0	183.0	182	1.0	6	6
5.3	25	▲	MWS0530X25DB	133.5	155.0	158.0	210.0	209	1.0	6	6
5.3	30	▲	MWS0530X30DB	160.0	183.0	186.0	238.0	237	1.0	6	6
5.4	3	▲	MWS0540MB	17.2	28.5	31.0	83.0	82	1.0	6	5
5.4	5	▲	MWS0540LB	28.0	45.0	49.0	101.0	100	1.0	6	5
5.4	8	▲	MWS0540X8DB	44.2	62.0	67.0	119.0	118	1.0	6	5
5.4	10	▲	MWS0540X10DB	55.0	73.0	76.0	128.0	127	1.0	6	6
5.4	15	▲	MWS0540X15DB	82.0	100.0	103.0	155.0	154	1.0	6	6
5.4	20	▲	MWS0540X20DB	109.0	128.0	131.0	183.0	182	1.0	6	6
5.4	25	▲	MWS0540X25DB	136.0	155.0	158.0	210.0	209	1.0	6	6
5.4	30	▲	MWS0540X30DB	163.0	183.0	186.0	238.0	237	1.0	6	6
5.5	3	▲	MWS0550MB	17.5	28.5	31.0	83.0	82	1.0	6	5
5.5	5	▲	MWS0550LB	28.5	45.0	49.0	101.0	100	1.0	6	5
5.5	8	▲	MWS0550X8DB	45.0	62.0	67.0	119.0	118	1.0	6	5
5.5	10	▲	MWS0550X10DB	56.0	73.0	76.0	128.0	127	1.0	6	6
5.5	15	▲	MWS0550X15DB	83.5	100.0	103.0	155.0	154	1.0	6	6
5.5	20	▲	MWS0550X20DB	111.0	128.0	131.0	183.0	182	1.0	6	6
5.5	25	▲	MWS0550X25DB	138.5	155.0	158.0	210.0	209	1.0	6	6
5.5	30	▲	MWS0550X30DB	166.0	183.0	186.0	238.0	237	1.0	6	6
5.6	3	▲	MWS0560MB	17.8	31.0	31.0	83.0	82	1.0	6	5
5.6	5	▲	MWS0560LB	29.0	49.0	49.0	101.0	100	1.0	6	5
5.6	8	▲	MWS0560X8DB	45.8	67.0	67.0	119.0	118	1.0	6	5
5.6	10	▲	MWS0560X10DB	57.0	79.0	82.0	134.0	133	1.0	6	6
5.6	15	▲	MWS0560X15DB	85.0	109.0	112.0	164.0	163	1.0	6	6
5.6	20	▲	MWS0560X20DB	113.0	139.0	142.0	194.0	193	1.0	6	6
5.6	25	▲	MWS0560X25DB	141.0	169.0	172.0	224.0	223	1.0	6	6
5.6	30	▲	MWS0560X30DB	169.0	199.0	202.0	254.0	253	1.0	6	6
5.7	3	▲	MWS0570MB	18.1	31.0	31.0	83.0	82	1.0	6	5
5.7	5	▲	MWS0570LB	29.5	49.0	49.0	101.0	100	1.0	6	5
5.7	8	▲	MWS0570X8DB	46.6	67.0	67.0	119.0	118	1.0	6	5
5.7	10	▲	MWS0570X10DB	58.0	79.0	82.0	134.0	133	1.0	6	6
5.7	15	▲	MWS0570X15DB	86.5	109.0	112.0	164.0	163	1.0	6	6
5.7	20	▲	MWS0570X20DB	115.0	139.0	142.0	194.0	193	1.0	6	6
5.7	25	▲	MWS0570X25DB	143.5	169.0	172.0	224.0	223	1.0	6	6
5.7	30	▲	MWS0570X30DB	172.0	199.0	202.0	254.0	253	1.0	6	6
5.8	3	▲	MWS0580MB	18.5	31.1	31.1	83.1	82	1.1	6	5
5.8	5	▲	MWS0580LB	30.1	49.1	49.1	101.1	100	1.1	6	5

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

▲: 预定在2020年3月底结束订货的产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
5.8	8	▲	MWS0580X8DB	47.5	67.1	67.1	119.1	118	1.1	6	5
5.8	10	▲	MWS0580X10DB	59.1	79.1	82.1	134.1	133	1.1	6	6
5.8	15	▲	MWS0580X15DB	88.1	109.1	112.1	164.1	163	1.1	6	6
5.8	20	▲	MWS0580X20DB	117.1	139.1	142.1	194.1	193	1.1	6	6
5.8	25	▲	MWS0580X25DB	146.1	169.1	172.1	224.1	223	1.1	6	6
5.8	30	▲	MWS0580X30DB	175.1	199.1	202.1	254.1	253	1.1	6	6
5.9	3	▲	MWS0590MB	18.8	31.1	31.1	83.1	82	1.1	6	5
5.9	5	▲	MWS0590LB	30.6	49.1	49.1	101.1	100	1.1	6	5
5.9	8	▲	MWS0590X8DB	48.3	67.1	67.1	119.1	118	1.1	6	5
5.9	10	▲	MWS0590X10DB	60.1	79.1	82.1	134.1	133	1.1	6	6
5.9	15	▲	MWS0590X15DB	89.6	109.1	112.1	164.1	163	1.1	6	6
5.9	20	▲	MWS0590X20DB	119.1	139.1	142.1	194.1	193	1.1	6	6
5.9	25	▲	MWS0590X25DB	148.6	169.1	172.1	224.1	223	1.1	6	6
5.9	30	▲	MWS0590X30DB	178.1	199.1	202.1	254.1	253	1.1	6	6
6.0	3	▲	MWS0600MB	19.1	31.1	31.1	83.1	82	1.1	6	5
6.0	5	▲	MWS0600LB	31.1	49.1	49.1	101.1	100	1.1	6	5
6.0	8	▲	MWS0600X8DB	49.1	67.1	67.1	119.1	118	1.1	6	5
6.0	10	▲	MWS0600X10DB	61.1	79.1	82.1	134.1	133	1.1	6	6
6.0	15	▲	MWS0600X15DB	91.1	109.1	112.1	164.1	163	1.1	6	6
6.0	20	▲	MWS0600X20DB	121.1	139.1	142.1	194.1	193	1.1	6	6
6.0	25	▲	MWS0600X25DB	151.1	169.1	172.1	224.1	223	1.1	6	6
6.0	30	▲	MWS0600X30DB	181.1	199.1	202.1	254.1	253	1.1	6	6
6.1	3	▲	MWS0610MB	19.4	33.6	36.1	89.1	88	1.1	7	5
6.1	5	▲	MWS0610LB	31.6	53.1	57.1	110.1	109	1.1	7	5
6.1	8	▲	MWS0610X8DB	49.9	73.1	78.1	131.1	130	1.1	7	5
6.1	10	▲	MWS0610X10DB	62.1	86.1	89.1	142.1	141	1.1	7	6
6.1	15	▲	MWS0610X15DB	92.6	118.1	121.1	174.1	173	1.1	7	6
6.1	20	▲	MWS0610X20DB	123.1	151.1	154.1	207.1	206	1.1	7	6
6.1	25	▲	MWS0610X25DB	153.6	183.1	186.1	239.1	238	1.1	7	6
6.1	30	▲	MWS0610X30DB	184.1	216.1	219.1	272.1	271	1.1	7	6
6.2	3	▲	MWS0620MB	19.7	33.6	36.1	89.1	88	1.1	7	5
6.2	5	▲	MWS0620LB	32.1	53.1	57.1	110.1	109	1.1	7	5
6.2	8	▲	MWS0620X8DB	50.7	73.1	78.1	131.1	130	1.1	7	5
6.2	10	▲	MWS0620X10DB	63.1	86.1	89.1	142.1	141	1.1	7	6
6.2	15	▲	MWS0620X15DB	94.1	118.1	121.1	174.1	173	1.1	7	6
6.2	20	▲	MWS0620X20DB	125.1	151.1	154.1	207.1	206	1.1	7	6
6.2	25	▲	MWS0620X25DB	156.1	183.1	186.1	239.1	238	1.1	7	6
6.2	30	▲	MWS0620X30DB	187.1	216.1	219.1	272.1	271	1.1	7	6
6.3	3	▲	MWS0630MB	20.0	33.6	36.1	89.1	88	1.1	7	5
6.3	5	▲	MWS0630LB	32.6	53.1	57.1	110.1	109	1.1	7	5
6.3	8	▲	MWS0630X8DB	51.5	73.1	78.1	131.1	130	1.1	7	5
6.3	10	▲	MWS0630X10DB	64.1	86.1	89.1	142.1	141	1.1	7	6
6.3	15	▲	MWS0630X15DB	95.6	118.1	121.1	174.1	173	1.1	7	6
6.3	20	▲	MWS0630X20DB	127.1	151.1	154.1	207.1	206	1.1	7	6
6.3	25	▲	MWS0630X25DB	158.6	183.1	186.1	239.1	238	1.1	7	6
6.3	30	▲	MWS0630X30DB	190.1	216.1	219.1	272.1	271	1.1	7	6
6.4	3	▲	MWS0640MB	20.4	33.7	36.2	89.2	88	1.2	7	5
6.4	5	▲	MWS0640LB	33.2	53.2	57.2	110.2	109	1.2	7	5

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.4	8	▲	MWS0640X8DB	52.4	73.2	78.2	131.2	130	1.2	7	5
6.4	10	▲	MWS0640X10DB	65.2	86.2	89.2	142.2	141	1.2	7	6
6.4	15	▲	MWS0640X15DB	97.2	118.2	121.2	174.2	173	1.2	7	6
6.4	20	▲	MWS0640X20DB	129.2	151.2	154.2	207.2	206	1.2	7	6
6.4	25	▲	MWS0640X25DB	161.2	183.2	186.2	239.2	238	1.2	7	6
6.4	30	▲	MWS0640X30DB	193.2	216.2	219.2	272.2	271	1.2	7	6
6.5	3	▲	MWS0650MB	20.7	33.7	36.2	89.2	88	1.2	7	5
6.5	5	▲	MWS0650LB	33.7	53.2	57.2	110.2	109	1.2	7	5
6.5	8	▲	MWS0650X8DB	53.2	73.2	78.2	131.2	130	1.2	7	5
6.5	10	▲	MWS0650X10DB	66.2	86.2	89.2	142.2	141	1.2	7	6
6.5	15	▲	MWS0650X15DB	98.7	118.2	121.2	174.2	173	1.2	7	6
6.5	20	▲	MWS0650X20DB	131.2	151.2	154.2	207.2	206	1.2	7	6
6.5	25	▲	MWS0650X25DB	163.7	183.2	186.2	239.2	238	1.2	7	6
6.5	30	▲	MWS0650X30DB	196.2	216.2	219.2	272.2	271	1.2	7	6
6.6	3	▲	MWS0660MB	21.0	36.2	36.2	89.2	88	1.2	7	5
6.6	5	▲	MWS0660LB	34.2	57.2	57.2	110.2	109	1.2	7	5
6.6	8	▲	MWS0660X8DB	54.0	78.2	78.2	131.2	130	1.2	7	5
6.6	10	▲	MWS0660X10DB	67.2	92.2	95.2	148.2	147	1.2	7	6
6.6	15	▲	MWS0660X15DB	100.2	127.2	130.2	183.2	182	1.2	7	6
6.6	20	▲	MWS0660X20DB	133.2	162.2	165.2	218.2	217	1.2	7	6
6.6	25	▲	MWS0660X25DB	166.2	197.2	200.2	253.2	252	1.2	7	6
6.6	30	▲	MWS0660X30DB	199.2	232.2	235.2	288.2	287	1.2	7	6
6.7	3	▲	MWS0670MB	21.3	36.2	36.2	89.2	88	1.2	7	5
6.7	5	▲	MWS0670LB	34.7	57.2	57.2	110.2	109	1.2	7	5
6.7	8	▲	MWS0670X8DB	54.8	78.2	78.2	131.2	130	1.2	7	5
6.7	10	▲	MWS0670X10DB	68.2	92.2	95.2	148.2	147	1.2	7	6
6.7	15	▲	MWS0670X15DB	101.7	127.2	130.2	183.2	182	1.2	7	6
6.7	20	▲	MWS0670X20DB	135.2	162.2	165.2	218.2	217	1.2	7	6
6.7	25	▲	MWS0670X25DB	168.7	197.2	200.2	253.2	252	1.2	7	6
6.7	30	▲	MWS0670X30DB	202.2	232.2	235.2	288.2	287	1.2	7	6
6.8	3	▲	MWS0680MB	21.6	36.2	36.2	89.2	88	1.2	7	5
6.8	5	▲	MWS0680LB	35.2	57.2	57.2	110.2	109	1.2	7	5
6.8	8	▲	MWS0680X8DB	55.6	78.2	78.2	131.2	130	1.2	7	5
6.8	10	▲	MWS0680X10DB	69.2	92.2	95.2	148.2	147	1.2	7	6
6.8	15	▲	MWS0680X15DB	103.2	127.2	130.2	183.2	182	1.2	7	6
6.8	20	▲	MWS0680X20DB	137.2	162.2	165.2	218.2	217	1.2	7	6
6.8	25	▲	MWS0680X25DB	171.2	197.2	200.2	253.2	252	1.2	7	6
6.8	30	▲	MWS0680X30DB	205.2	232.2	235.2	288.2	287	1.2	7	6
6.9	3	▲	MWS0690MB	22.0	36.3	36.3	89.3	88	1.3	7	5
6.9	5	▲	MWS0690LB	35.8	57.3	57.3	110.3	109	1.3	7	5
6.9	8	▲	MWS0690X8DB	56.5	78.3	78.3	131.3	130	1.3	7	5
6.9	10	▲	MWS0690X10DB	70.3	92.3	95.3	148.3	147	1.3	7	6
6.9	15	▲	MWS0690X15DB	104.8	127.3	130.3	183.3	182	1.3	7	6
6.9	20	▲	MWS0690X20DB	139.3	162.3	165.3	218.3	217	1.3	7	6
6.9	25	▲	MWS0690X25DB	173.8	197.3	200.3	253.3	252	1.3	7	6
6.9	30	▲	MWS0690X30DB	208.3	232.3	235.3	288.3	287	1.3	7	6
7.0	3	▲	MWS0700MB	22.3	36.3	36.3	89.3	88	1.3	7	5
7.0	5	▲	MWS0700LB	36.3	57.3	57.3	110.3	109	1.3	7	5

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钻头

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
7.0	8	▲	MWS0700X8DB	57.3	78.3	78.3	131.3	130	1.3	7	5
7.0	10	▲	MWS0700X10DB	71.3	92.3	95.3	148.3	147	1.3	7	6
7.0	15	▲	MWS0700X15DB	106.3	127.3	130.3	183.3	182	1.3	7	6
7.0	20	▲	MWS0700X20DB	141.3	162.3	165.3	218.3	217	1.3	7	6
7.0	25	▲	MWS0700X25DB	176.3	197.3	200.3	253.3	252	1.3	7	6
7.0	30	▲	MWS0700X30DB	211.3	232.3	235.3	288.3	287	1.3	7	6
7.1	3	▲	MWS0710MB	22.6	38.8	41.3	95.3	94	1.3	8	5
7.1	5	▲	MWS0710LB	36.8	61.3	65.3	119.3	118	1.3	8	5
7.1	8	▲	MWS0710X8DB	58.1	84.3	89.3	143.3	142	1.3	8	5
7.1	10	▲	MWS0710X10DB	72.3	99.3	102.3	156.3	155	1.3	8	6
7.1	15	▲	MWS0710X15DB	107.8	136.3	139.3	193.3	192	1.3	8	6
7.1	20	▲	MWS0710X20DB	143.3	174.3	177.3	231.3	230	1.3	8	6
7.1	25	▲	MWS0710X25DB	178.8	211.3	214.3	268.3	267	1.3	8	6
7.1	30	▲	MWS0710X30DB	214.3	249.3	252.3	306.3	305	1.3	8	6
7.2	3	▲	MWS0720MB	22.9	38.8	41.3	95.3	94	1.3	8	5
7.2	5	▲	MWS0720LB	37.3	61.3	65.3	119.3	118	1.3	8	5
7.2	8	▲	MWS0720X8DB	58.9	84.3	89.3	143.3	142	1.3	8	5
7.2	10	▲	MWS0720X10DB	73.3	99.3	102.3	156.3	155	1.3	8	6
7.2	15	▲	MWS0720X15DB	109.3	136.3	139.3	193.3	192	1.3	8	6
7.2	20	▲	MWS0720X20DB	145.3	174.3	177.3	231.3	230	1.3	8	6
7.2	25	▲	MWS0720X25DB	181.3	211.3	214.3	268.3	267	1.3	8	6
7.2	30	▲	MWS0720X30DB	217.3	249.3	252.3	306.3	305	1.3	8	6
7.3	3	▲	MWS0730MB	23.2	38.8	41.3	95.3	94	1.3	8	5
7.3	5	▲	MWS0730LB	37.8	61.3	65.3	119.3	118	1.3	8	5
7.3	8	▲	MWS0730X8DB	59.7	84.3	89.3	143.3	142	1.3	8	5
7.3	10	▲	MWS0730X10DB	74.3	99.3	102.3	156.3	155	1.3	8	6
7.3	15	▲	MWS0730X15DB	110.8	136.3	139.3	193.3	192	1.3	8	6
7.3	20	▲	MWS0730X20DB	147.3	174.3	177.3	231.3	230	1.3	8	6
7.3	25	▲	MWS0730X25DB	183.8	211.3	214.3	268.3	267	1.3	8	6
7.3	30	▲	MWS0730X30DB	220.3	249.3	252.3	306.3	305	1.3	8	6
7.4	3	▲	MWS0740MB	23.5	38.8	41.3	95.3	94	1.3	8	5
7.4	5	▲	MWS0740LB	38.3	61.3	65.3	119.3	118	1.3	8	5
7.4	8	▲	MWS0740X8DB	60.5	84.3	89.3	143.3	142	1.3	8	5
7.4	10	▲	MWS0740X10DB	75.3	99.3	102.3	156.3	155	1.3	8	6
7.4	15	▲	MWS0740X15DB	112.3	136.3	139.3	193.3	192	1.3	8	6
7.4	20	▲	MWS0740X20DB	149.3	174.3	177.3	231.3	230	1.3	8	6
7.4	25	▲	MWS0740X25DB	186.3	211.3	214.3	268.3	267	1.3	8	6
7.4	30	▲	MWS0740X30DB	223.3	249.3	252.3	306.3	305	1.3	8	6
7.5	3	▲	MWS0750MB	23.9	38.9	41.4	95.4	94	1.4	8	5
7.5	5	▲	MWS0750LB	38.9	61.4	65.4	119.4	118	1.4	8	5
7.5	8	▲	MWS0750X8DB	61.4	84.4	89.4	143.4	142	1.4	8	5
7.5	10	▲	MWS0750X10DB	76.4	99.4	102.4	156.4	155	1.4	8	6
7.5	15	▲	MWS0750X15DB	113.9	136.4	139.4	193.4	192	1.4	8	6
7.5	20	▲	MWS0750X20DB	151.4	174.4	177.4	231.4	230	1.4	8	6
7.5	25	▲	MWS0750X25DB	188.9	211.4	214.4	268.4	267	1.4	8	6
7.5	30	▲	MWS0750X30DB	226.4	249.4	252.4	306.4	305	1.4	8	6
7.6	3	▲	MWS0760MB	24.2	41.4	41.4	95.4	94	1.4	8	5
7.6	5	▲	MWS0760LB	39.4	65.4	65.4	119.4	118	1.4	8	5

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
7.6	8	▲	MWS0760X8DB	62.2	89.4	89.4	143.4	142	1.4	8	5
7.6	10	▲	MWS0760X10DB	77.4	105.4	108.4	162.4	161	1.4	8	6
7.6	15	▲	MWS0760X15DB	115.4	145.4	148.4	202.4	201	1.4	8	6
7.6	20	▲	MWS0760X20DB	153.4	185.4	188.4	242.4	241	1.4	8	6
7.6	25	▲	MWS0760X25DB	191.4	225.4	228.4	282.4	281	1.4	8	6
7.6	30	▲	MWS0760X30DB	229.4	265.4	268.4	322.4	321	1.4	8	6
7.7	3	▲	MWS0770MB	24.5	41.4	41.4	95.4	94	1.4	8	5
7.7	5	▲	MWS0770LB	39.9	65.4	65.4	119.4	118	1.4	8	5
7.7	8	▲	MWS0770X8DB	63.0	89.4	89.4	143.4	142	1.4	8	5
7.7	10	▲	MWS0770X10DB	78.4	105.4	108.4	162.4	161	1.4	8	6
7.7	15	▲	MWS0770X15DB	116.9	145.4	148.4	202.4	201	1.4	8	6
7.7	20	▲	MWS0770X20DB	155.4	185.4	188.4	242.4	241	1.4	8	6
7.7	25	▲	MWS0770X25DB	193.9	225.4	228.4	282.4	281	1.4	8	6
7.7	30	▲	MWS0770X30DB	232.4	265.4	268.4	322.4	321	1.4	8	6
7.8	3	▲	MWS0780MB	24.8	41.4	41.4	95.4	94	1.4	8	5
7.8	5	▲	MWS0780LB	40.4	65.4	65.4	119.4	118	1.4	8	5
7.8	8	▲	MWS0780X8DB	63.8	89.4	89.4	143.4	142	1.4	8	5
7.8	10	▲	MWS0780X10DB	79.4	105.4	108.4	162.4	161	1.4	8	6
7.8	15	▲	MWS0780X15DB	118.4	145.4	148.4	202.4	201	1.4	8	6
7.8	20	▲	MWS0780X20DB	157.4	185.4	188.4	242.4	241	1.4	8	6
7.8	25	▲	MWS0780X25DB	196.4	225.4	228.4	282.4	281	1.4	8	6
7.8	30	▲	MWS0780X30DB	235.4	265.4	268.4	322.4	321	1.4	8	6
7.9	3	▲	MWS0790MB	25.1	41.4	41.4	95.4	94	1.4	8	5
7.9	5	▲	MWS0790LB	40.9	65.4	65.4	119.4	118	1.4	8	5
7.9	8	▲	MWS0790X8DB	64.6	89.4	89.4	143.4	142	1.4	8	5
7.9	10	▲	MWS0790X10DB	80.4	105.4	108.4	162.4	161	1.4	8	6
7.9	15	▲	MWS0790X15DB	119.9	145.4	148.4	202.4	201	1.4	8	6
7.9	20	▲	MWS0790X20DB	159.4	185.4	188.4	242.4	241	1.4	8	6
7.9	25	▲	MWS0790X25DB	198.9	225.4	228.4	282.4	281	1.4	8	6
7.9	30	▲	MWS0790X30DB	238.4	265.4	268.4	322.4	321	1.4	8	6
8.0	3	▲	MWS0800MB	25.5	41.5	41.5	95.5	94	1.5	8	5
8.0	5	▲	MWS0800LB	41.5	65.5	65.5	119.5	118	1.5	8	5
8.0	8	▲	MWS0800X8DB	65.5	89.5	89.5	143.5	142	1.5	8	5
8.0	10	▲	MWS0800X10DB	81.5	105.5	108.5	162.5	161	1.5	8	6
8.0	15	▲	MWS0800X15DB	121.5	145.5	148.5	202.5	201	1.5	8	6
8.0	20	▲	MWS0800X20DB	161.5	185.5	188.5	242.5	241	1.5	8	6
8.0	25	▲	MWS0800X25DB	201.5	225.5	228.5	282.5	281	1.5	8	6
8.0	30	▲	MWS0800X30DB	241.5	265.5	268.5	322.5	321	1.5	8	6
8.1	3	▲	MWS0810MB	25.8	44.0	46.5	101.5	100	1.5	9	5
8.1	5	▲	MWS0810LB	42.0	69.5	73.5	128.5	127	1.5	9	5
8.1	8	▲	MWS0810X8DB	66.3	95.5	100.5	155.5	154	1.5	9	5
8.1	10	▲	MWS0810X10DB	82.5	112.5	115.5	170.5	169	1.5	9	6
8.1	15	▲	MWS0810X15DB	123.0	154.5	157.5	212.5	211	1.5	9	6
8.1	20	▲	MWS0810X20DB	163.5	197.5	200.5	255.5	254	1.5	9	6
8.1	25	▲	MWS0810X25DB	204.0	239.5	242.5	297.5	296	1.5	9	6
8.1	30	▲	MWS0810X30DB	244.5	282.5	285.5	340.5	339	1.5	9	6
8.2	3	▲	MWS0820MB	26.1	44.0	46.5	101.5	100	1.5	9	5
8.2	5	▲	MWS0820LB	42.5	69.5	73.5	128.5	127	1.5	9	5

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

▲: 预定在2020年3月底结束订货的产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
8.2	8	▲	MWS0820X8DB	67.1	95.5	100.5	155.5	154	1.5	9	5
8.2	10	▲	MWS0820X10DB	83.5	112.5	115.5	170.5	169	1.5	9	6
8.2	15	▲	MWS0820X15DB	124.5	154.5	157.5	212.5	211	1.5	9	6
8.2	20	▲	MWS0820X20DB	165.5	197.5	200.5	255.5	254	1.5	9	6
8.2	25	▲	MWS0820X25DB	206.5	239.5	242.5	297.5	296	1.5	9	6
8.2	30	▲	MWS0820X30DB	247.5	282.5	285.5	340.5	339	1.5	9	6
8.3	3	▲	MWS0830MB	26.4	44.0	46.5	101.5	100	1.5	9	5
8.3	5	▲	MWS0830LB	43.0	69.5	73.5	128.5	127	1.5	9	5
8.3	8	▲	MWS0830X8DB	67.9	95.5	100.5	155.5	154	1.5	9	5
8.3	10	▲	MWS0830X10DB	84.5	112.5	115.5	170.5	169	1.5	9	6
8.3	15	▲	MWS0830X15DB	126.0	154.5	157.5	212.5	211	1.5	9	6
8.3	20	▲	MWS0830X20DB	167.5	197.5	200.5	255.5	254	1.5	9	6
8.3	25	▲	MWS0830X25DB	209.0	239.5	242.5	297.5	296	1.5	9	6
8.3	30	▲	MWS0830X30DB	250.5	282.5	285.5	340.5	339	1.5	9	6
8.4	3	▲	MWS0840MB	26.7	44.0	46.5	101.5	100	1.5	9	5
8.4	5	▲	MWS0840LB	43.5	69.5	73.5	128.5	127	1.5	9	5
8.4	8	▲	MWS0840X8DB	68.7	95.5	100.5	155.5	154	1.5	9	5
8.4	10	▲	MWS0840X10DB	85.5	112.5	115.5	170.5	169	1.5	9	6
8.4	15	▲	MWS0840X15DB	127.5	154.5	157.5	212.5	211	1.5	9	6
8.4	20	▲	MWS0840X20DB	169.5	197.5	200.5	255.5	254	1.5	9	6
8.4	25	▲	MWS0840X25DB	211.5	239.5	242.5	297.5	296	1.5	9	6
8.4	30	▲	MWS0840X30DB	253.5	282.5	285.5	340.5	339	1.5	9	6
8.5	3	▲	MWS0850MB	27.0	44.0	46.5	101.5	100	1.5	9	5
8.5	5	▲	MWS0850LB	44.0	69.5	73.5	128.5	127	1.5	9	5
8.5	8	▲	MWS0850X8DB	69.5	95.5	100.5	155.5	154	1.5	9	5
8.5	10	▲	MWS0850X10DB	86.5	112.5	115.5	170.5	169	1.5	9	6
8.5	15	▲	MWS0850X15DB	129.0	154.5	157.5	212.5	211	1.5	9	6
8.5	20	▲	MWS0850X20DB	171.5	197.5	200.5	255.5	254	1.5	9	6
8.5	25	▲	MWS0850X25DB	214.0	239.5	242.5	297.5	296	1.5	9	6
8.5	30	▲	MWS0850X30DB	256.5	282.5	285.5	340.5	339	1.5	9	6
8.6	3	▲	MWS0860MB	27.4	46.6	46.6	101.6	100	1.6	9	5
8.6	5	▲	MWS0860LB	44.6	73.6	73.6	128.6	127	1.6	9	5
8.6	8	▲	MWS0860X8DB	70.4	100.6	100.6	155.6	154	1.6	9	5
8.6	10	▲	MWS0860X10DB	87.6	118.6	121.6	176.6	175	1.6	9	6
8.6	15	▲	MWS0860X15DB	130.6	163.6	166.6	221.6	220	1.6	9	6
8.6	20	▲	MWS0860X20DB	173.6	208.6	211.6	266.6	265	1.6	9	6
8.6	25	▲	MWS0860X25DB	216.6	253.6	256.6	311.6	310	1.6	9	6
8.6	30	▲	MWS0860X30DB	259.6	298.6	301.6	356.6	355	1.6	9	6
8.7	3	▲	MWS0870MB	27.7	46.6	46.6	101.6	100	1.6	9	5
8.7	5	▲	MWS0870LB	45.1	73.6	73.6	128.6	127	1.6	9	5
8.7	8	▲	MWS0870X8DB	71.2	100.6	100.6	155.6	154	1.6	9	5
8.7	10	▲	MWS0870X10DB	88.6	118.6	121.6	176.6	175	1.6	9	6
8.7	15	▲	MWS0870X15DB	132.1	163.6	166.6	221.6	220	1.6	9	6
8.7	20	▲	MWS0870X20DB	175.6	208.6	211.6	266.6	265	1.6	9	6
8.7	25	▲	MWS0870X25DB	219.1	253.6	256.6	311.6	310	1.6	9	6
8.7	30	▲	MWS0870X30DB	262.6	298.6	301.6	356.6	355	1.6	9	6
8.8	3	▲	MWS0880MB	28.0	46.6	46.6	101.6	100	1.6	9	5
8.8	5	▲	MWS0880LB	45.6	73.6	73.6	128.6	127	1.6	9	5

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
8.8	8	▲	MWS0880X8DB	72.0	100.6	100.6	155.6	154	1.6	9	5
8.8	10	▲	MWS0880X10DB	89.6	118.6	121.6	176.6	175	1.6	9	6
8.8	15	▲	MWS0880X15DB	133.6	163.6	166.6	221.6	220	1.6	9	6
8.8	20	▲	MWS0880X20DB	177.6	208.6	211.6	266.6	265	1.6	9	6
8.8	25	▲	MWS0880X25DB	221.6	253.6	256.6	311.6	310	1.6	9	6
8.8	30	▲	MWS0880X30DB	265.6	298.6	301.6	356.6	355	1.6	9	6
8.9	3	▲	MWS0890MB	28.3	46.6	46.6	101.6	100	1.6	9	5
8.9	5	▲	MWS0890LB	46.1	73.6	73.6	128.6	127	1.6	9	5
8.9	8	▲	MWS0890X8DB	72.8	100.6	100.6	155.6	154	1.6	9	5
8.9	10	▲	MWS0890X10DB	90.6	118.6	121.6	176.6	175	1.6	9	6
8.9	15	▲	MWS0890X15DB	135.1	163.6	166.6	221.6	220	1.6	9	6
8.9	20	▲	MWS0890X20DB	179.6	208.6	211.6	266.6	265	1.6	9	6
8.9	25	▲	MWS0890X25DB	224.1	253.6	256.6	311.6	310	1.6	9	6
8.9	30	▲	MWS0890X30DB	268.6	298.6	301.6	356.6	355	1.6	9	6
9.0	3	▲	MWS0900MB	28.6	46.6	46.6	101.6	100	1.6	9	5
9.0	5	▲	MWS0900LB	46.6	73.6	73.6	128.6	127	1.6	9	5
9.0	8	▲	MWS0900X8DB	73.6	100.6	100.6	155.6	154	1.6	9	5
9.0	10	▲	MWS0900X10DB	91.6	118.6	121.6	176.6	175	1.6	9	6
9.0	15	▲	MWS0900X15DB	136.6	163.6	166.6	221.6	220	1.6	9	6
9.0	20	▲	MWS0900X20DB	181.6	208.6	211.6	266.6	265	1.6	9	6
9.0	25	▲	MWS0900X25DB	226.6	253.6	256.6	311.6	310	1.6	9	6
9.0	30	▲	MWS0900X30DB	271.6	298.6	301.6	356.6	355	1.6	9	6
9.1	3	▲	MWS0910MB	29.0	49.2	51.7	107.7	106	1.7	10	5
9.1	5	▲	MWS0910LB	47.2	77.7	81.7	137.7	136	1.7	10	5
9.1	8	▲	MWS0910X8DB	74.5	106.7	111.7	167.7	166	1.7	10	5
9.1	10	▲	MWS0910X10DB	92.7	125.7	128.7	183.7	182	1.7	10	6
9.1	15	▲	MWS0910X15DB	138.2	172.7	175.7	230.7	229	1.7	10	6
9.1	20	▲	MWS0910X20DB	183.7	220.7	223.7	278.7	277	1.7	10	6
9.1	25	▲	MWS0910X25DB	229.2	267.7	270.7	325.7	324	1.7	10	6
9.1	30	▲	MWS0910X30DB	274.7	315.7	318.7	373.7	372	1.7	10	6
9.2	3	▲	MWS0920MB	29.3	49.2	51.7	107.7	106	1.7	10	5
9.2	5	▲	MWS0920LB	47.7	77.7	81.7	137.7	136	1.7	10	5
9.2	8	▲	MWS0920X8DB	75.3	106.7	111.7	167.7	166	1.7	10	5
9.2	10	▲	MWS0920X10DB	93.7	125.7	128.7	183.7	182	1.7	10	6
9.2	15	▲	MWS0920X15DB	139.7	172.7	175.7	230.7	229	1.7	10	6
9.2	20	▲	MWS0920X20DB	185.7	220.7	223.7	278.7	277	1.7	10	6
9.2	25	▲	MWS0920X25DB	231.7	267.7	270.7	325.7	324	1.7	10	6
9.2	30	▲	MWS0920X30DB	277.7	315.7	318.7	373.7	372	1.7	10	6
9.3	3	▲	MWS0930MB	29.6	49.2	51.7	107.7	106	1.7	10	5
9.3	5	▲	MWS0930LB	48.2	77.7	81.7	137.7	136	1.7	10	5
9.3	8	▲	MWS0930X8DB	76.1	106.7	111.7	167.7	166	1.7	10	5
9.3	10	▲	MWS0930X10DB	94.7	125.7	128.7	183.7	182	1.7	10	6
9.3	15	▲	MWS0930X15DB	141.2	172.7	175.7	230.7	229	1.7	10	6
9.3	20	▲	MWS0930X20DB	187.7	220.7	223.7	278.7	277	1.7	10	6
9.3	25	▲	MWS0930X25DB	234.2	267.7	270.7	325.7	324	1.7	10	6
9.3	30	▲	MWS0930X30DB	280.7	315.7	318.7	373.7	372	1.7	10	6
9.4	3	▲	MWS0940MB	29.9	49.2	51.7	107.7	106	1.7	10	5
9.4	5	▲	MWS0940LB	48.7	77.7	81.7	137.7	136	1.7	10	5

P

钻头

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
9.4	8	▲	MWS0940X8DB	76.9	106.7	111.7	167.7	166	1.7	10	5
9.4	10	▲	MWS0940X10DB	95.7	125.7	128.7	183.7	182	1.7	10	6
9.4	15	▲	MWS0940X15DB	142.7	172.7	175.7	230.7	229	1.7	10	6
9.4	20	▲	MWS0940X20DB	189.7	220.7	223.7	278.7	277	1.7	10	6
9.4	25	▲	MWS0940X25DB	236.7	267.7	270.7	325.7	324	1.7	10	6
9.4	30	▲	MWS0940X30DB	283.7	315.7	318.7	373.7	372	1.7	10	6
9.5	3	▲	MWS0950MB	30.2	49.2	51.7	107.7	106	1.7	10	5
9.5	5	▲	MWS0950LB	49.2	77.7	81.7	137.7	136	1.7	10	5
9.5	8	▲	MWS0950X8DB	77.7	106.7	111.7	167.7	166	1.7	10	5
9.5	10	▲	MWS0950X10DB	96.7	125.7	128.7	183.7	182	1.7	10	6
9.5	15	▲	MWS0950X15DB	144.2	172.7	175.7	230.7	229	1.7	10	6
9.5	20	▲	MWS0950X20DB	191.7	220.7	223.7	278.7	277	1.7	10	6
9.5	25	▲	MWS0950X25DB	239.2	267.7	270.7	325.7	324	1.7	10	6
9.5	30	▲	MWS0950X30DB	286.7	315.7	318.7	373.7	372	1.7	10	6
9.6	3	▲	MWS0960MB	30.5	51.7	51.7	107.7	106	1.7	10	5
9.6	5	▲	MWS0960LB	49.7	81.7	81.7	137.7	136	1.7	10	5
9.6	8	▲	MWS0960X8DB	78.5	111.7	111.7	167.7	166	1.7	10	5
9.6	10	▲	MWS0960X10DB	97.7	131.7	134.7	189.7	188	1.7	10	6
9.6	15	▲	MWS0960X15DB	145.7	181.7	184.7	239.7	238	1.7	10	6
9.6	20	▲	MWS0960X20DB	193.7	231.7	234.7	289.7	288	1.7	10	6
9.6	25	▲	MWS0960X25DB	241.7	281.7	284.7	339.7	338	1.7	10	6
9.6	30	▲	MWS0960X30DB	289.7	331.7	334.7	389.7	388	1.7	10	6
9.7	3	▲	MWS0970MB	30.9	51.8	51.8	107.8	106	1.8	10	5
9.7	5	▲	MWS0970LB	50.3	81.8	81.8	137.8	136	1.8	10	5
9.7	8	▲	MWS0970X8DB	79.4	111.8	111.8	167.8	166	1.8	10	5
9.7	10	▲	MWS0970X10DB	98.8	131.8	134.8	189.8	188	1.8	10	6
9.7	15	▲	MWS0970X15DB	147.3	181.8	184.8	239.8	238	1.8	10	6
9.7	20	▲	MWS0970X20DB	195.8	231.8	234.8	289.8	288	1.8	10	6
9.7	25	▲	MWS0970X25DB	244.3	281.8	284.8	339.8	338	1.8	10	6
9.7	30	▲	MWS0970X30DB	292.8	331.8	334.8	389.8	388	1.8	10	6
9.8	3	▲	MWS0980MB	31.2	51.8	51.8	107.8	106	1.8	10	5
9.8	5	▲	MWS0980LB	50.8	81.8	81.8	137.8	136	1.8	10	5
9.8	8	▲	MWS0980X8DB	80.2	111.8	111.8	167.8	166	1.8	10	5
9.8	10	▲	MWS0980X10DB	99.8	131.8	134.8	189.8	188	1.8	10	6
9.8	15	▲	MWS0980X15DB	148.8	181.8	184.8	239.8	238	1.8	10	6
9.8	20	▲	MWS0980X20DB	197.8	231.8	234.8	289.8	288	1.8	10	6
9.8	25	▲	MWS0980X25DB	246.8	281.8	284.8	339.8	338	1.8	10	6
9.8	30	▲	MWS0980X30DB	295.8	331.8	334.8	389.8	388	1.8	10	6
9.9	3	▲	MWS0990MB	31.5	51.8	51.8	107.8	106	1.8	10	5
9.9	5	▲	MWS0990LB	51.3	81.8	81.8	137.8	136	1.8	10	5
9.9	8	▲	MWS0990X8DB	81.0	111.8	111.8	167.8	166	1.8	10	5
9.9	10	▲	MWS0990X10DB	100.8	131.8	134.8	189.8	188	1.8	10	6
9.9	15	▲	MWS0990X15DB	150.3	181.8	184.8	239.8	238	1.8	10	6
9.9	20	▲	MWS0990X20DB	199.8	231.8	234.8	289.8	288	1.8	10	6
9.9	25	▲	MWS0990X25DB	249.3	281.8	284.8	339.8	338	1.8	10	6
9.9	30	▲	MWS0990X30DB	298.8	331.8	334.8	389.8	388	1.8	10	6
10.0	3	▲	MWS1000MB	31.8	51.8	51.8	107.8	106	1.8	10	5
10.0	5	▲	MWS1000LB	51.8	81.8	81.8	137.8	136	1.8	10	5

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
10.0	8	▲	MWS1000X8DB	81.8	111.8	111.8	167.8	166	1.8	10	5
10.0	10	▲	MWS1000X10DB	101.8	131.8	134.8	189.8	188	1.8	10	6
10.0	15	▲	MWS1000X15DB	151.8	181.8	184.8	239.8	238	1.8	10	6
10.0	20	▲	MWS1000X20DB	201.8	231.8	234.8	289.8	288	1.8	10	6
10.0	25	▲	MWS1000X25DB	251.8	281.8	284.8	339.8	338	1.8	10	6
10.0	30	▲	MWS1000X30DB	301.8	331.8	334.8	389.8	388	1.8	10	6
10.1	3	▲	MWS1010MB	32.1	54.3	56.8	117.8	116	1.8	11	5
10.1	5	▲	MWS1010LB	52.3	85.8	89.8	150.8	149	1.8	11	5
10.1	8	▲	MWS1010X8DB	82.6	117.8	122.8	183.8	182	1.8	11	5
10.1	10	▲	MWS1010X10DB	102.8	138.8	141.8	202.8	201	1.8	11	6
10.1	15	▲	MWS1010X15DB	153.3	190.8	193.8	254.8	253	1.8	11	6
10.1	20	▲	MWS1010X20DB	203.8	243.8	246.8	307.8	306	1.8	11	6
10.1	25	▲	MWS1010X25DB	254.3	295.8	298.8	359.8	358	1.8	11	6
10.2	3	▲	MWS1020MB	32.5	54.4	56.9	117.9	116	1.9	11	5
10.2	5	▲	MWS1020LB	52.9	85.9	89.9	150.9	149	1.9	11	5
10.2	8	▲	MWS1020X8DB	83.5	117.9	122.9	183.9	182	1.9	11	5
10.2	10	▲	MWS1020X10DB	103.9	138.9	141.9	202.9	201	1.9	11	6
10.2	15	▲	MWS1020X15DB	154.9	190.9	193.9	254.9	253	1.9	11	6
10.2	20	▲	MWS1020X20DB	205.9	243.9	246.9	307.9	306	1.9	11	6
10.2	25	▲	MWS1020X25DB	256.9	295.9	298.9	359.9	358	1.9	11	6
10.3	3	▲	MWS1030MB	32.8	54.4	56.9	117.9	116	1.9	11	5
10.3	5	▲	MWS1030LB	53.4	85.9	89.9	150.9	149	1.9	11	5
10.3	8	▲	MWS1030X8DB	84.3	117.9	122.9	183.9	182	1.9	11	5
10.3	10	▲	MWS1030X10DB	104.9	138.9	141.9	202.9	201	1.9	11	6
10.3	15	▲	MWS1030X15DB	156.4	190.9	193.9	254.9	253	1.9	11	6
10.3	20	▲	MWS1030X20DB	207.9	243.9	246.9	307.9	306	1.9	11	6
10.3	25	▲	MWS1030X25DB	259.4	295.9	298.9	359.9	358	1.9	11	6
10.4	3	▲	MWS1040MB	33.1	54.4	56.9	117.9	116	1.9	11	5
10.4	5	▲	MWS1040LB	53.9	85.9	89.9	150.9	149	1.9	11	5
10.4	8	▲	MWS1040X8DB	85.1	117.9	122.9	183.9	182	1.9	11	5
10.4	10	▲	MWS1040X10DB	105.9	138.9	141.9	202.9	201	1.9	11	6
10.4	15	▲	MWS1040X15DB	157.9	190.9	193.9	254.9	253	1.9	11	6
10.4	20	▲	MWS1040X20DB	209.9	243.9	246.9	307.9	306	1.9	11	6
10.4	25	▲	MWS1040X25DB	261.9	295.9	298.9	359.9	358	1.9	11	6
10.5	3	▲	MWS1050MB	33.4	54.4	56.9	117.9	116	1.9	11	5
10.5	5	▲	MWS1050LB	54.4	85.9	89.9	150.9	149	1.9	11	5
10.5	8	▲	MWS1050X8DB	85.9	117.9	122.9	183.9	182	1.9	11	5
10.5	10	▲	MWS1050X10DB	106.9	138.9	141.9	202.9	201	1.9	11	6
10.5	15	▲	MWS1050X15DB	159.4	190.9	193.9	254.9	253	1.9	11	6
10.5	20	▲	MWS1050X20DB	211.9	243.9	246.9	307.9	306	1.9	11	6
10.5	25	▲	MWS1050X25DB	264.4	295.9	298.9	359.9	358	1.9	11	6
10.6	3	▲	MWS1060MB	33.7	56.9	56.9	117.9	116	1.9	11	5
10.6	5	▲	MWS1060LB	54.9	89.9	89.9	150.9	149	1.9	11	5
10.6	8	▲	MWS1060X8DB	86.7	122.9	122.9	183.9	182	1.9	11	5
10.6	10	▲	MWS1060X10DB	107.9	144.9	147.9	208.9	207	1.9	11	6
10.6	15	▲	MWS1060X15DB	160.9	199.9	202.9	263.9	262	1.9	11	6
10.6	20	▲	MWS1060X20DB	213.9	254.9	257.9	318.9	317	1.9	11	6
10.6	25	▲	MWS1060X25DB	266.9	309.9	312.9	373.9	372	1.9	11	6

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

▲: 预定在2020年3月底结束订货的产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DON	
10.7	3	▲	MWS1070MB	34.0	56.9	56.9	117.9	116	1.9	11	5
10.7	5	▲	MWS1070LB	55.4	89.9	89.9	150.9	149	1.9	11	5
10.7	8	▲	MWS1070X8DB	87.5	122.9	122.9	183.9	182	1.9	11	5
10.7	10	▲	MWS1070X10DB	108.9	144.9	147.9	208.9	207	1.9	11	6
10.7	15	▲	MWS1070X15DB	162.4	199.9	202.9	263.9	262	1.9	11	6
10.7	20	▲	MWS1070X20DB	215.9	254.9	257.9	318.9	317	1.9	11	6
10.7	25	▲	MWS1070X25DB	269.4	309.9	312.9	373.9	372	1.9	11	6
10.8	3	▲	MWS1080MB	34.4	57.0	57.0	118.0	116	2.0	11	5
10.8	5	▲	MWS1080LB	56.0	90.0	90.0	151.0	149	2.0	11	5
10.8	8	▲	MWS1080X8DB	88.4	123.0	123.0	184.0	182	2.0	11	5
10.8	10	▲	MWS1080X10DB	110.0	145.0	148.0	209.0	207	2.0	11	6
10.8	15	▲	MWS1080X15DB	164.0	200.0	203.0	264.0	262	2.0	11	6
10.8	20	▲	MWS1080X20DB	218.0	255.0	258.0	319.0	317	2.0	11	6
10.8	25	▲	MWS1080X25DB	272.0	310.0	313.0	374.0	372	2.0	11	6
10.9	3	▲	MWS1090MB	34.7	57.0	57.0	118.0	116	2.0	11	5
10.9	5	▲	MWS1090LB	56.5	90.0	90.0	151.0	149	2.0	11	5
10.9	8	▲	MWS1090X8DB	89.2	123.0	123.0	184.0	182	2.0	11	5
10.9	10	▲	MWS1090X10DB	111.0	145.0	148.0	209.0	207	2.0	11	6
10.9	15	▲	MWS1090X15DB	165.5	200.0	203.0	264.0	262	2.0	11	6
10.9	20	▲	MWS1090X20DB	220.0	255.0	258.0	319.0	317	2.0	11	6
10.9	25	▲	MWS1090X25DB	274.5	310.0	313.0	374.0	372	2.0	11	6
11.0	3	▲	MWS1100MB	35.0	57.0	57.0	118.0	116	2.0	11	5
11.0	5	▲	MWS1100LB	57.0	90.0	90.0	151.0	149	2.0	11	5
11.0	8	▲	MWS1100X8DB	90.0	123.0	123.0	184.0	182	2.0	11	5
11.0	10	▲	MWS1100X10DB	112.0	145.0	148.0	209.0	207	2.0	11	6
11.0	15	▲	MWS1100X15DB	167.0	200.0	203.0	264.0	262	2.0	11	6
11.0	20	▲	MWS1100X20DB	222.0	255.0	258.0	319.0	317	2.0	11	6
11.0	25	▲	MWS1100X25DB	277.0	310.0	313.0	374.0	372	2.0	11	6
11.1	3	▲	MWS1110MB	35.3	59.5	62.0	124.0	122	2.0	12	5
11.1	5	▲	MWS1110LB	57.5	94.0	98.0	160.0	158	2.0	12	5
11.1	8	▲	MWS1110X8DB	90.8	129.0	134.0	196.0	194	2.0	12	5
11.1	10	▲	MWS1110X10DB	113.0	152.0	155.0	217.0	215	2.0	12	6
11.1	15	▲	MWS1110X15DB	168.5	209.0	212.0	274.0	272	2.0	12	6
11.1	20	▲	MWS1110X20DB	224.0	267.0	270.0	332.0	330	2.0	12	6
11.1	25	▲	MWS1110X25DB	279.5	324.0	327.0	389.0	387	2.0	12	6
11.2	3	▲	MWS1120MB	35.6	59.5	62.0	124.0	122	2.0	12	5
11.2	5	▲	MWS1120LB	58.0	94.0	98.0	160.0	158	2.0	12	5
11.2	8	▲	MWS1120X8DB	91.6	129.0	134.0	196.0	194	2.0	12	5
11.2	10	▲	MWS1120X10DB	114.0	152.0	155.0	217.0	215	2.0	12	6
11.2	15	▲	MWS1120X15DB	170.0	209.0	212.0	274.0	272	2.0	12	6
11.2	20	▲	MWS1120X20DB	226.0	267.0	270.0	332.0	330	2.0	12	6
11.2	25	▲	MWS1120X25DB	282.0	324.0	327.0	389.0	387	2.0	12	6
11.3	3	▲	MWS1130MB	36.0	59.6	62.1	124.1	122	2.1	12	5
11.3	5	▲	MWS1130LB	58.6	94.1	98.1	160.1	158	2.1	12	5
11.3	8	▲	MWS1130X8DB	92.5	129.1	134.1	196.1	194	2.1	12	5
11.3	10	▲	MWS1130X10DB	115.1	152.1	155.1	217.1	215	2.1	12	6
11.3	15	▲	MWS1130X15DB	171.6	209.1	212.1	274.1	272	2.1	12	6
11.3	20	▲	MWS1130X20DB	228.1	267.1	270.1	332.1	330	2.1	12	6

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DON	
11.3	25	▲	MWS1130X25DB	284.6	324.1	327.1	389.1	387	2.1	12	6
11.4	3	▲	MWS1140MB	36.3	59.6	62.1	124.1	122	2.1	12	5
11.4	5	▲	MWS1140LB	59.1	94.1	98.1	160.1	158	2.1	12	5
11.4	8	▲	MWS1140X8DB	93.3	129.1	134.1	196.1	194	2.1	12	5
11.4	10	▲	MWS1140X10DB	116.1	152.1	155.1	217.1	215	2.1	12	6
11.4	15	▲	MWS1140X15DB	173.1	209.1	212.1	274.1	272	2.1	12	6
11.4	20	▲	MWS1140X20DB	230.1	267.1	270.1	332.1	330	2.1	12	6
11.4	25	▲	MWS1140X25DB	287.1	324.1	327.1	389.1	387	2.1	12	6
11.5	3	▲	MWS1150MB	36.6	59.6	62.1	124.1	122	2.1	12	5
11.5	5	▲	MWS1150LB	59.6	94.1	98.1	160.1	158	2.1	12	5
11.5	8	▲	MWS1150X8DB	94.1	129.1	134.1	196.1	194	2.1	12	5
11.5	10	▲	MWS1150X10DB	117.1	152.1	155.1	217.1	215	2.1	12	6
11.5	15	▲	MWS1150X15DB	174.6	209.1	212.1	274.1	272	2.1	12	6
11.5	20	▲	MWS1150X20DB	232.1	267.1	270.1	332.1	330	2.1	12	6
11.5	25	▲	MWS1150X25DB	289.6	324.1	327.1	389.1	387	2.1	12	6
11.6	3	▲	MWS1160MB	36.9	62.1	62.1	124.1	122	2.1	12	5
11.6	5	▲	MWS1160LB	60.1	98.1	98.1	160.1	158	2.1	12	5
11.6	8	▲	MWS1160X8DB	94.9	134.1	134.1	196.1	194	2.1	12	5
11.6	10	▲	MWS1160X10DB	118.1	158.1	161.1	223.1	221	2.1	12	6
11.6	15	▲	MWS1160X15DB	176.1	218.1	221.1	283.1	281	2.1	12	6
11.6	20	▲	MWS1160X20DB	234.1	278.1	281.1	343.1	341	2.1	12	6
11.6	25	▲	MWS1160X25DB	292.1	338.1	341.1	403.1	401	2.1	12	6
11.7	3	▲	MWS1170MB	37.2	62.1	62.1	124.1	122	2.1	12	5
11.7	5	▲	MWS1170LB	60.6	98.1	98.1	160.1	158	2.1	12	5
11.7	8	▲	MWS1170X8DB	95.7	134.1	134.1	196.1	194	2.1	12	5
11.7	10	▲	MWS1170X10DB	119.1	158.1	161.1	223.1	221	2.1	12	6
11.7	15	▲	MWS1170X15DB	177.6	218.1	221.1	283.1	281	2.1	12	6
11.7	20	▲	MWS1170X20DB	236.1	278.1	281.1	343.1	341	2.1	12	6
11.7	25	▲	MWS1170X25DB	294.6	338.1	341.1	403.1	401	2.1	12	6
11.8	3	▲	MWS1180MB	37.5	62.1	62.1	124.1	122	2.1	12	5
11.8	5	▲	MWS1180LB	61.1	98.1	98.1	160.1	158	2.1	12	5
11.8	8	▲	MWS1180X8DB	96.5	134.1	134.1	196.1	194	2.1	12	5
11.8	10	▲	MWS1180X10DB	120.1	158.1	161.1	223.1	221	2.1	12	6
11.8	15	▲	MWS1180X15DB	179.1	218.1	221.1	283.1	281	2.1	12	6
11.8	20	▲	MWS1180X20DB	238.1	278.1	281.1	343.1	341	2.1	12	6
11.8	25	▲	MWS1180X25DB	297.1	338.1	341.1	403.1	401	2.1	12	6
11.9	3	▲	MWS1190MB	37.9	62.2	62.2	124.2	122	2.2	12	5
11.9	5	▲	MWS1190LB	61.7	98.2	98.2	160.2	158	2.2	12	5
11.9	8	▲	MWS1190X8DB	97.4	134.2	134.2	196.2	194	2.2	12	5
11.9	10	▲	MWS1190X10DB	121.2	158.2	161.2	223.2	221	2.2	12	6
11.9	15	▲	MWS1190X15DB	180.7	218.2	221.2	283.2	281	2.2	12	6
11.9	20	▲	MWS1190X20DB	240.2	278.2	281.2	343.2	341	2.2	12	6
11.9	25	▲	MWS1190X25DB	299.7	338.2	341.2	403.2	401	2.2	12	6
12.0	3	▲	MWS1200MB	38.2	62.2	62.2	124.2	122	2.2	12	5
12.0	5	▲	MWS1200LB	62.2	98.2	98.2	160.2	158	2.2	12	5
12.0	8	▲	MWS1200X8DB	98.2	134.2	134.2	196.2	194	2.2	12	5
12.0	10	▲	MWS1200X10DB	122.2	158.2	161.2	223.2	221	2.2	12	6
12.0	15	▲	MWS1200X15DB	182.2	218.2	221.2	283.2	281	2.2	12	6

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
12.0	20	▲	MWS1200X20DB	242.2	278.2	281.2	343.2	341	2.2	12	6
12.0	25	▲	MWS1200X25DB	302.2	338.2	341.2	403.2	401	2.2	12	6
12.1	3	▲	MWS1210MB	38.5	64.7	67.2	130.2	128	2.2	13	5
12.1	5	▲	MWS1210LB	62.7	102.2	106.2	169.2	167	2.2	13	5
12.1	8	□	MWS1210X8DB	99.0	140.2	145.2	208.2	206	2.2	13	5
12.1	10	□	MWS1210X10DB	123.2	165.2	168.2	231.2	229	2.2	13	6
12.1	15	□	MWS1210X15DB	183.7	227.2	230.2	293.2	291	2.2	13	6
12.1	20	□	MWS1210X20DB	244.2	290.2	293.2	356.2	354	2.2	13	6
12.2	3	▲	MWS1220MB	38.8	64.7	67.2	130.2	128	2.2	13	5
12.2	5	▲	MWS1220LB	63.2	102.2	106.2	169.2	167	2.2	13	5
12.2	8	□	MWS1220X8DB	99.8	140.2	145.2	208.2	206	2.2	13	5
12.2	10	□	MWS1220X10DB	124.2	165.2	168.2	231.2	229	2.2	13	6
12.2	15	□	MWS1220X15DB	185.2	227.2	230.2	293.2	291	2.2	13	6
12.2	20	□	MWS1220X20DB	246.2	290.2	293.2	356.2	354	2.2	13	6
12.3	3	▲	MWS1230MB	39.1	64.7	67.2	130.2	128	2.2	13	5
12.3	5	▲	MWS1230LB	63.7	102.2	106.2	169.2	167	2.2	13	5
12.3	8	□	MWS1230X8DB	100.6	140.2	145.2	208.2	206	2.2	13	5
12.3	10	□	MWS1230X10DB	125.2	165.2	168.2	231.2	229	2.2	13	6
12.3	15	□	MWS1230X15DB	186.7	227.2	230.2	293.2	291	2.2	13	6
12.3	20	□	MWS1230X20DB	248.2	290.2	293.2	356.2	354	2.2	13	6
12.4	3	▲	MWS1240MB	39.5	64.8	67.3	130.3	128	2.3	13	5
12.4	5	▲	MWS1240LB	64.3	102.3	106.3	169.3	167	2.3	13	5
12.4	8	□	MWS1240X8DB	101.5	140.3	145.3	208.3	206	2.3	13	5
12.4	10	□	MWS1240X10DB	126.3	165.3	168.3	231.3	229	2.3	13	6
12.4	15	□	MWS1240X15DB	188.3	227.3	230.3	293.3	291	2.3	13	6
12.4	20	□	MWS1240X20DB	250.3	290.3	293.3	356.3	354	2.3	13	6
12.5	3	▲	MWS1250MB	39.8	64.8	67.3	130.3	128	2.3	13	5
12.5	5	▲	MWS1250LB	64.8	102.3	106.3	169.3	167	2.3	13	5
12.5	8	▲	MWS1250X8DB	102.3	140.3	145.3	208.3	206	2.3	13	5
12.5	10	▲	MWS1250X10DB	127.3	165.3	168.3	231.3	229	2.3	13	6
12.5	15	▲	MWS1250X15DB	189.8	227.3	230.3	293.3	291	2.3	13	6
12.5	20	▲	MWS1250X20DB	252.3	290.3	293.3	356.3	354	2.3	13	6
12.6	3	▲	MWS1260MB	40.1	67.3	67.3	130.3	128	2.3	13	5
12.6	5	▲	MWS1260LB	65.3	106.3	106.3	169.3	167	2.3	13	5
12.6	8	□	MWS1260X8DB	103.1	145.3	145.3	208.3	206	2.3	13	5
12.6	10	□	MWS1260X10DB	128.3	171.3	174.3	237.3	235	2.3	13	6
12.6	15	□	MWS1260X15DB	191.3	236.3	239.3	302.3	300	2.3	13	6
12.6	20	□	MWS1260X20DB	254.3	301.3	304.3	367.3	365	2.3	13	6
12.7	3	▲	MWS1270MB	40.4	67.3	67.3	130.3	128	2.3	13	5
12.7	5	▲	MWS1270LB	65.8	106.3	106.3	169.3	167	2.3	13	5
12.7	8	□	MWS1270X8DB	103.9	145.3	145.3	208.3	206	2.3	13	5
12.7	10	□	MWS1270X10DB	129.3	171.3	174.3	237.3	235	2.3	13	6
12.7	15	□	MWS1270X15DB	192.8	236.3	239.3	302.3	300	2.3	13	6
12.7	20	□	MWS1270X20DB	256.3	301.3	304.3	367.3	365	2.3	13	6
12.8	3	▲	MWS1280MB	40.7	67.3	67.3	130.3	128	2.3	13	5
12.8	5	▲	MWS1280LB	66.3	106.3	106.3	169.3	167	2.3	13	5
12.8	8	□	MWS1280X8DB	104.7	145.3	145.3	208.3	206	2.3	13	5
12.8	10	□	MWS1280X10DB	130.3	171.3	174.3	237.3	235	2.3	13	6

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
12.8	15	□	MWS1280X15DB	194.3	236.3	239.3	302.3	300	2.3	13	6
12.8	20	□	MWS1280X20DB	258.3	301.3	304.3	367.3	365	2.3	13	6
12.9	3	▲	MWS1290MB	41.0	67.3	67.3	130.3	128	2.3	13	5
12.9	5	▲	MWS1290LB	66.8	106.3	106.3	169.3	167	2.3	13	5
12.9	8	□	MWS1290X8DB	105.5	145.3	145.3	208.3	206	2.3	13	5
12.9	10	□	MWS1290X10DB	131.3	171.3	174.3	237.3	235	2.3	13	6
12.9	15	□	MWS1290X15DB	195.8	236.3	239.3	302.3	300	2.3	13	6
12.9	20	□	MWS1290X20DB	260.3	301.3	304.3	367.3	365	2.3	13	6
13.0	3	▲	MWS1300MB	41.4	67.4	67.4	130.4	128	2.4	13	5
13.0	5	▲	MWS1300LB	67.4	106.4	106.4	169.4	167	2.4	13	5
13.0	8	▲	MWS1300X8DB	106.4	145.4	145.4	208.4	206	2.4	13	5
13.0	10	▲	MWS1300X10DB	132.4	171.4	174.4	237.4	235	2.4	13	6
13.0	15	▲	MWS1300X15DB	197.4	236.4	239.4	302.4	300	2.4	13	6
13.0	20	▲	MWS1300X20DB	262.4	301.4	304.4	367.4	365	2.4	13	6
13.1	3	▲	MWS1310MB	41.7	89.9	72.4	136.4	134	2.4	14	5
13.1	5	▲	MWS1310LB	67.9	110.4	114.4	178.4	176	2.4	14	5
13.1	8	□	MWS1310X8DB	107.2	151.4	156.4	220.4	218	2.4	14	5
13.1	10	□	MWS1310X10DB	133.4	178.4	181.4	245.4	243	2.4	14	6
13.1	15	□	MWS1310X15DB	198.9	245.4	248.4	312.4	310	2.4	14	6
13.1	20	□	MWS1310X20DB	264.4	313.4	316.4	380.4	378	2.4	14	6
13.2	3	▲	MWS1320MB	42.0	69.9	72.4	136.4	134	2.4	14	5
13.2	5	▲	MWS1320LB	68.4	110.4	114.4	178.4	176	2.4	14	5
13.2	8	□	MWS1320X8DB	108.0	151.4	156.4	220.4	218	2.4	14	5
13.2	10	□	MWS1320X10DB	134.4	178.4	181.4	245.4	243	2.4	14	6
13.2	15	□	MWS1320X15DB	200.4	245.4	248.4	312.4	310	2.4	14	6
13.2	20	□	MWS1320X20DB	266.4	313.4	316.4	380.4	378	2.4	14	6
13.3	3	▲	MWS1330MB	42.3	69.9	72.4	136.4	134	2.4	14	5
13.3	5	▲	MWS1330LB	68.9	110.4	114.4	178.4	176	2.4	14	5
13.3	8	□	MWS1330X8DB	108.8	151.4	156.4	220.4	218	2.4	14	5
13.3	10	□	MWS1330X10DB	135.4	178.4	181.4	245.4	243	2.4	14	6
13.3	15	□	MWS1330X15DB	201.9	245.4	248.4	312.4	310	2.4	14	6
13.3	20	□	MWS1330X20DB	268.4	313.4	316.4	380.4	378	2.4	14	6
13.4	3	▲	MWS1340MB	42.6	69.9	72.4	136.4	134	2.4	14	5
13.4	5	▲	MWS1340LB	69.4	110.4	114.4	178.4	176	2.4	14	5
13.4	8	□	MWS1340X8DB	109.6	151.4	156.4	220.4	218	2.4	14	5
13.4	10	□	MWS1340X10DB	136.4	178.4	181.4	245.4	243	2.4	14	6
13.4	15	□	MWS1340X15DB	203.4	245.4	248.4	312.4	310	2.4	14	6
13.4	20	□	MWS1340X20DB	270.4	313.4	316.4	380.4	378	2.4	14	6
13.5	3	▲	MWS1350MB	43.0	70.0	72.5	136.5	134	2.5	14	5
13.5	5	▲	MWS1350LB	70.0	110.5	114.5	178.5	176	2.5	14	5
13.5	8	▲	MWS1350X8DB	110.5	151.5	156.5	220.5	218	2.5	14	5
13.5	10	▲	MWS1350X10DB	137.5	178.5	181.5	245.5	243	2.5	14	6
13.5	15	▲	MWS1350X15DB	205.0	245.5	248.5	312.5	310	2.5	14	6
13.5	20	▲	MWS1350X20DB	272.5	313.5	316.5	380.5	378	2.5	14	6
13.6	3	▲	MWS1360MB	43.3	72.5	72.5	136.5	134	2.5	14	5
13.6	5	▲	MWS1360LB	70.5	114.5	114.5	178.5	176	2.5	14	5
13.6	8	□	MWS1360X8DB	111.3	156.5	156.5	220.5	218	2.5	14	5
13.6	10	□	MWS1360X10DB	138.5	184.5	187.5	251.5	249	2.5	14	6

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

▲: 预定在2020年3月底结束订货的产品

□: 预订生产产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DON	
13.6	15	□	MWS1360X15DB	206.5	254.5	257.5	321.5	319	2.5	14	6
13.6	20	□	MWS1360X20DB	274.5	324.5	327.5	391.5	389	2.5	14	6
13.7	3	▲	MWS1370MB	43.6	72.5	72.5	136.5	134	2.5	14	5
13.7	5	▲	MWS1370LB	71.0	114.5	114.5	178.5	176	2.5	14	5
13.7	8	□	MWS1370X8DB	112.1	156.5	156.5	220.5	218	2.5	14	5
13.7	10	□	MWS1370X10DB	139.5	184.5	187.5	251.5	249	2.5	14	6
13.7	15	□	MWS1370X15DB	208.0	254.5	257.5	321.5	319	2.5	14	6
13.7	20	□	MWS1370X20DB	276.5	324.5	327.5	391.5	389	2.5	14	6
13.8	3	▲	MWS1380MB	43.9	72.5	72.5	136.5	134	2.5	14	5
13.8	5	▲	MWS1380LB	71.5	114.5	114.5	178.5	176	2.5	14	5
13.8	8	□	MWS1380X8DB	112.9	156.5	156.5	220.5	218	2.5	14	5
13.8	10	□	MWS1380X10DB	140.5	184.5	187.5	251.5	249	2.5	14	6
13.8	15	□	MWS1380X15DB	209.5	254.5	257.5	321.5	319	2.5	14	6
13.8	20	□	MWS1380X20DB	278.5	324.5	327.5	391.5	389	2.5	14	6
13.9	3	▲	MWS1390MB	44.2	72.5	72.5	136.5	134	2.5	14	5
13.9	5	▲	MWS1390LB	72.0	114.5	114.5	178.5	176	2.5	14	5
13.9	8	□	MWS1390X8DB	113.7	156.5	156.5	220.5	218	2.5	14	5
13.9	10	□	MWS1390X10DB	141.5	184.5	187.5	251.5	249	2.5	14	6
13.9	15	□	MWS1390X15DB	211.0	254.5	257.5	321.5	319	2.5	14	6
13.9	20	□	MWS1390X20DB	280.5	324.5	327.5	391.5	389	2.5	14	6
14.0	3	▲	MWS1400MB	44.5	72.5	72.5	136.5	134	2.5	14	5
14.0	5	▲	MWS1400LB	72.5	114.5	114.5	178.5	176	2.5	14	5
14.0	8	▲	MWS1400X8DB	114.5	156.5	156.5	220.5	218	2.5	14	5
14.0	10	▲	MWS1400X10DB	142.5	184.5	187.5	251.5	249	2.5	14	6
14.0	15	▲	MWS1400X15DB	212.5	254.5	257.5	321.5	319	2.5	14	6
14.0	20	▲	MWS1400X20DB	282.5	324.5	327.5	391.5	389	2.5	14	6
14.1	3	▲	MWS1410MB	44.9	75.1	77.6	142.6	140	2.6	15	5
14.1	5	▲	MWS1410LB	73.1	118.6	122.6	187.6	185	2.6	15	5
14.1	8	□	MWS1410X8DB	115.4	162.6	167.6	227.6	225	2.6	15	5
14.2	3	▲	MWS1420MB	45.2	75.1	77.6	142.6	140	2.6	15	5
14.2	5	▲	MWS1420LB	73.6	118.6	122.6	187.6	185	2.6	15	5
14.2	8	▲	MWS1420X8DB	116.2	162.6	167.6	227.6	225	2.6	15	5
14.3	3	▲	MWS1430MB	45.5	75.1	77.6	142.6	140	2.6	15	5
14.3	5	▲	MWS1430LB	74.1	118.6	122.6	187.6	185	2.6	15	5
14.3	8	□	MWS1430X8DB	117.0	162.6	167.6	227.6	225	2.6	15	5
14.4	3	▲	MWS1440MB	45.8	75.1	77.6	142.6	140	2.6	15	5
14.4	5	▲	MWS1440LB	74.6	118.6	122.6	187.6	185	2.6	15	5
14.4	8	□	MWS1440X8DB	117.8	162.6	167.6	227.6	225	2.6	15	5
14.5	3	▲	MWS1450MB	46.1	75.1	77.6	142.6	140	2.6	15	5
14.5	5	▲	MWS1450LB	75.1	118.6	122.6	187.6	185	2.6	15	5
14.5	8	▲	MWS1450X8DB	118.6	162.6	167.6	227.6	225	2.6	15	5
14.6	3	▲	MWS1460MB	46.5	77.7	77.7	142.7	140	2.7	15	5
14.6	5	▲	MWS1460LB	75.7	122.7	122.7	187.7	185	2.7	15	5
14.6	8	□	MWS1460X8DB	119.5	167.7	167.7	227.7	225	2.7	15	5
14.7	3	▲	MWS1470MB	46.8	77.7	77.7	142.7	140	2.7	15	5
14.7	5	▲	MWS1470LB	76.2	122.7	122.7	187.7	185	2.7	15	5
14.7	8	□	MWS1470X8DB	120.3	167.7	167.7	227.7	225	2.7	15	5
14.8	3	▲	MWS1480MB	47.1	77.7	77.7	142.7	140	2.7	15	5

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DON	
14.8	5	▲	MWS1480LB	76.7	122.7	122.7	187.7	185	2.7	15	5
14.8	8	□	MWS1480X8DB	121.1	167.7	167.7	227.7	225	2.7	15	5
14.9	3	▲	MWS1490MB	47.4	77.7	77.7	142.7	140	2.7	15	5
14.9	5	▲	MWS1490LB	77.2	122.7	122.7	187.7	185	2.7	15	5
14.9	8	□	MWS1490X8DB	121.9	167.7	167.7	227.7	225	2.7	15	5
15.0	3	▲	MWS1500MB	47.7	77.7	77.7	142.7	140	2.7	15	5
15.0	5	▲	MWS1500LB	77.7	122.7	122.7	187.7	185	2.7	15	5
15.0	8	▲	MWS1500X8DB	122.7	167.7	167.7	227.7	225	2.7	15	5
15.1	3	▲	MWS1510MB	48.0	80.2	82.7	147.7	145	2.7	16	5
15.1	5	▲	MWS1510LB	78.2	126.7	130.7	195.7	193	2.7	16	5
15.1	8	□	MWS1510X8DB	123.5	173.7	183.7	243.7	241	2.7	16	5
15.2	3	▲	MWS1520MB	48.4	80.3	82.8	147.8	145	2.8	16	5
15.2	5	▲	MWS1520LB	78.8	126.8	130.8	195.8	193	2.8	16	5
15.2	8	□	MWS1520X8DB	124.4	173.8	183.8	243.8	241	2.8	16	5
15.3	3	▲	MWS1530MB	48.7	80.3	82.8	147.8	145	2.8	16	5
15.3	5	▲	MWS1530LB	79.3	126.8	130.8	195.8	193	2.8	16	5
15.3	8	□	MWS1530X8DB	125.2	173.8	183.8	243.8	241	2.8	16	5
15.4	3	▲	MWS1540MB	49.0	80.3	82.8	147.8	145	2.8	16	5
15.4	5	▲	MWS1540LB	79.8	126.8	130.8	195.8	193	2.8	16	5
15.4	8	□	MWS1540X8DB	126.0	173.8	183.8	243.8	241	2.8	16	5
15.5	3	▲	MWS1550MB	49.3	80.3	82.8	147.8	145	2.8	16	5
15.5	5	▲	MWS1550LB	80.3	126.8	130.8	195.8	193	2.8	16	5
15.5	8	▲	MWS1550X8DB	126.8	173.8	183.8	243.8	241	2.8	16	5
15.6	3	▲	MWS1560MB	49.6	82.8	82.8	147.8	145	2.8	16	5
15.6	5	▲	MWS1560LB	80.8	130.8	130.8	195.8	193	2.8	16	5
15.6	8	□	MWS1560X8DB	127.6	178.8	183.8	243.8	241	2.8	16	5
15.7	3	▲	MWS1570MB	50.0	82.9	82.9	147.9	145	2.9	16	5
15.7	5	▲	MWS1570LB	81.4	130.9	130.9	195.9	193	2.9	16	5
15.7	8	□	MWS1570X8DB	128.5	178.9	183.9	243.9	241	2.9	16	5
15.8	3	▲	MWS1580MB	50.3	82.9	82.9	147.9	145	2.9	16	5
15.8	5	▲	MWS1580LB	81.9	130.9	130.9	195.9	193	2.9	16	5
15.8	8	□	MWS1580X8DB	129.3	178.9	183.9	243.9	241	2.9	16	5
15.9	3	▲	MWS1590MB	50.6	82.9	82.9	147.9	145	2.9	16	5
15.9	5	▲	MWS1590LB	82.4	130.9	130.9	195.9	193	2.9	16	5
15.9	8	□	MWS1590X8DB	130.1	178.9	183.9	243.9	241	2.9	16	5
16.0	3	▲	MWS1600MB	50.9	82.9	82.9	147.9	145	2.9	16	5
16.0	5	▲	MWS1600LB	82.9	130.9	130.9	195.9	193	2.9	16	5
16.0	8	▲	MWS1600X8DB	130.9	178.9	183.9	243.9	241	2.9	16	5
16.1	3	□	MWS1610MB	51.2	85.4	87.9	152.9	150	2.9	17	5
16.1	5	□	MWS1610LB	83.4	134.9	138.9	203.9	201	2.9	17	5
16.2	3	□	MWS1620MB	51.5	85.4	87.9	152.9	150	2.9	17	5
16.2	5	□	MWS1620LB	83.9	134.9	138.9	203.9	201	2.9	17	5
16.3	3	□	MWS1630MB	51.9	85.5	88.0	153.0	150	3.0	17	5
16.3	5	□	MWS1630LB	84.5	135.0	139.0	204.0	201	3.0	17	5
16.4	3	□	MWS1640MB	52.2	85.5	88.0	153.0	150	3.0	17	5
16.4	5	□	MWS1640LB	85.0	135.0	139.0	204.0	201	3.0	17	5
16.5	3	▲	MWS1650MB	52.5	85.5	88.0	153.0	150	3.0	17	5
16.5	5	▲	MWS1650LB	85.5	135.0	139.0	204.0	201	3.0	17	5

P

钻头

DC (mm)	钻 削 孔 深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
16.6	3	□	MWS1660MB	52.8	88.0	88.0	153.0	150	3.0	17	5
16.6	5	□	MWS1660LB	86.0	139.0	139.0	204.0	201	3.0	17	5
16.7	3	□	MWS1670MB	53.1	88.0	88.0	153.0	150	3.0	17	5
16.7	5	□	MWS1670LB	86.5	139.0	139.0	204.0	201	3.0	17	5
16.8	3	□	MWS1680MB	53.5	88.1	88.1	153.1	150	3.1	17	5
16.8	5	□	MWS1680LB	87.1	139.1	139.1	204.1	201	3.1	17	5
16.9	3	□	MWS1690MB	53.8	88.1	88.1	153.1	150	3.1	17	5
16.9	5	□	MWS1690LB	87.6	139.1	139.1	204.1	201	3.1	17	5
17.0	3	▲	MWS1700MB	54.1	88.1	88.1	153.1	150	3.1	17	5
17.0	5	▲	MWS1700LB	88.1	139.1	139.1	204.1	201	3.1	17	5
17.1	3	□	MWS1710MB	54.4	90.6	93.1	158.1	155	3.1	18	5
17.1	5	□	MWS1710LB	88.6	143.1	147.1	212.1	209	3.1	18	5
17.2	3	□	MWS1720MB	54.7	90.6	93.1	158.1	155	3.1	18	5
17.2	5	□	MWS1720LB	89.1	143.1	147.1	212.1	209	3.1	18	5
17.3	3	□	MWS1730MB	55.0	90.6	93.1	158.1	155	3.1	18	5
17.3	5	□	MWS1730LB	89.6	143.1	147.1	212.1	209	3.1	18	5
17.4	3	□	MWS1740MB	55.4	90.7	93.2	158.2	155	3.2	18	5
17.4	5	□	MWS1740LB	90.2	143.2	147.2	212.2	209	3.2	18	5
17.5	3	▲	MWS1750MB	55.7	90.7	93.2	158.2	155	3.2	18	5
17.5	5	▲	MWS1750LB	90.7	143.2	147.2	212.2	209	3.2	18	5
17.6	3	□	MWS1760MB	56.0	93.2	93.2	158.2	155	3.2	18	5
17.6	5	□	MWS1760LB	91.2	147.2	147.2	212.2	209	3.2	18	5
17.7	3	□	MWS1770MB	56.3	93.2	93.2	158.2	155	3.2	18	5
17.7	5	□	MWS1770LB	91.7	147.2	147.2	212.2	209	3.2	18	5
17.8	3	□	MWS1780MB	56.6	93.2	93.2	158.2	155	3.2	18	5
17.8	5	□	MWS1780LB	92.2	147.2	147.2	212.2	209	3.2	18	5
17.9	3	□	MWS1790MB	57.0	93.3	93.3	158.3	155	3.3	18	5
17.9	5	□	MWS1790LB	92.8	147.3	147.3	212.3	209	3.3	18	5
18.0	3	▲	MWS1800MB	57.3	93.3	93.3	158.3	155	3.3	18	5
18.0	5	▲	MWS1800LB	93.3	147.3	147.3	212.3	209	3.3	18	5
18.1	3	□	MWS1810MB	57.6	95.8	98.3	163.3	160	3.3	19	5
18.1	5	□	MWS1810LB	93.8	151.3	155.3	220.3	217	3.3	19	5
18.2	3	□	MWS1820MB	57.9	95.8	98.3	163.3	160	3.3	19	5
18.2	5	□	MWS1820LB	94.3	151.3	155.3	220.3	217	3.3	19	5
18.3	3	□	MWS1830MB	58.2	95.8	98.3	163.3	160	3.3	19	5
18.3	5	□	MWS1830LB	94.8	151.3	155.3	220.3	217	3.3	19	5
18.4	3	□	MWS1840MB	58.5	95.8	98.3	163.3	160	3.3	19	5
18.4	5	□	MWS1840LB	95.3	151.3	155.3	220.3	217	3.3	19	5
18.5	3	▲	MWS1850MB	58.9	95.9	98.4	163.4	160	3.4	19	5
18.5	5	▲	MWS1850LB	95.9	151.4	155.4	220.4	217	3.4	19	5
18.6	3	□	MWS1860MB	59.2	98.4	98.4	163.4	160	3.4	19	5
18.6	5	□	MWS1860LB	96.4	155.4	155.4	220.4	217	3.4	19	5
18.7	3	□	MWS1870MB	59.5	98.4	98.4	163.4	160	3.4	19	5
18.7	5	□	MWS1870LB	96.9	155.4	155.4	220.4	217	3.4	19	5
18.8	3	□	MWS1880MB	59.8	98.4	98.4	163.4	160	3.4	19	5
18.8	5	□	MWS1880LB	97.4	155.4	155.4	220.4	217	3.4	19	5
18.9	3	□	MWS1890MB	60.1	98.4	98.4	163.4	160	3.4	19	5
18.9	5	□	MWS1890LB	97.9	155.4	155.4	220.4	217	3.4	19	5

DC (mm)	钻 削 孔 深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
19.0	3	▲	MWS1900MB	60.5	98.5	98.5	163.5	160	3.5	19	5
19.0	5	▲	MWS1900LB	98.5	155.5	155.5	220.5	217	3.5	19	5
19.1	3	□	MWS1910MB	60.8	101.0	103.5	168.5	165	3.5	20	5
19.1	5	□	MWS1910LB	99.0	159.5	163.5	228.5	225	3.5	20	5
19.2	3	□	MWS1920MB	61.1	101.0	103.5	168.5	165	3.5	20	5
19.2	5	□	MWS1920LB	99.5	159.5	163.5	228.5	225	3.5	20	5
19.3	3	□	MWS1930MB	61.4	101.0	103.5	168.5	165	3.5	20	5
19.3	5	□	MWS1930LB	100.0	159.5	163.5	228.5	225	3.5	20	5
19.4	3	□	MWS1940MB	61.7	101.0	103.5	168.5	165	3.5	20	5
19.4	5	□	MWS1940LB	100.5	159.5	163.5	228.5	225	3.5	20	5
19.5	3	▲	MWS1950MB	62.0	101.0	103.5	168.5	165	3.5	20	5
19.5	5	▲	MWS1950LB	101.0	159.5	163.5	228.5	225	3.5	20	5
19.6	3	□	MWS1960MB	62.4	103.6	103.6	168.6	165	3.6	20	5
19.6	5	□	MWS1960LB	101.6	163.6	163.6	228.6	225	3.6	20	5
19.7	3	□	MWS1970MB	62.7	103.6	103.6	168.6	165	3.6	20	5
19.7	5	□	MWS1970LB	102.1	163.6	163.6	228.6	225	3.6	20	5
19.8	3	□	MWS1980MB	63.0	103.6	103.6	168.6	165	3.6	20	5
19.8	5	□	MWS1980LB	102.6	163.6	163.6	228.6	225	3.6	20	5
19.9	3	□	MWS1990MB	63.3	103.6	103.6	168.6	165	3.6	20	5
19.9	5	□	MWS1990LB	103.1	163.6	163.6	228.6	225	3.6	20	5
20.0	3	▲	MWS2000MB	63.6	103.6	103.6	168.6	165	3.6	20	5
20.0	5	▲	MWS2000LB	103.6	163.6	163.6	228.6	225	3.6	20	5
20.5	3	▲	MWS2050MB	65.2	106.7	108.7	179.7	176	3.7	21	5
20.5	5	▲	MWS2050LB	106.2	169.7	171.7	242.7	239	3.7	21	5
21.0	3	▲	MWS2100MB	66.8	108.8	108.8	179.8	176	3.8	21	5
21.0	5	▲	MWS2100LB	108.8	171.8	171.8	242.8	239	3.8	21	5
21.5	3	▲	MWS2150MB	68.4	111.9	113.9	185.9	182	3.9	22	5
21.5	5	▲	MWS2150LB	111.4	177.9	179.9	251.9	248	3.9	22	5
22.0	3	▲	MWS2200MB	70.0	114.0	114.0	186.0	182	4.0	22	5
22.0	5	▲	MWS2200LB	114.0	180.0	180.0	252.0	248	4.0	22	5
22.5	3	▲	MWS2250MB	71.6	117.1	119.1	192.1	188	4.1	23	5
22.5	5	▲	MWS2250LB	116.6	186.1	188.1	261.1	257	4.1	23	5
23.0	3	▲	MWS2300MB	73.2	119.2	119.2	192.2	188	4.2	23	5
23.0	5	▲	MWS2300LB	119.2	188.2	188.2	261.2	257	4.2	23	5
23.5	3	▲	MWS2350MB	74.8	122.3	124.3	198.3	194	4.3	24	5
23.5	5	▲	MWS2350LB	121.8	194.3	196.3	270.3	266	4.3	24	5
24.0	3	▲	MWS2400MB	76.4	124.4	124.4	198.4	194	4.4	24	5
24.0	5	▲	MWS2400LB	124.4	196.4	196.4	270.4	266	4.4	24	5
24.5	3	▲	MWS2450MB	78.0	127.5	129.5	204.5	200	4.5	25	5
24.5	5	▲	MWS2450LB	127.0	202.5	204.5	274.5	270	4.5	25	5
25.0	3	▲	MWS2500MB	79.5	129.5	129.5	204.5	200	4.5	25	5
25.0	5	▲	MWS2500LB	129.5	204.5	204.5	274.5	270	4.5	25	5

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

▲: 预定在2020年3月底结束订货的产品

□: 预订生产产品

推荐切削条件

■ SB/MB/LB/XB/DB型钻头(L/D<10)

工件材料	软钢 (≤HB180)					碳钢·合金钢 (HB180—280)				
	SS400、S10C等					S45C、SCM440等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
0.5	40	25400	0.01	(0.005—0.015)	250	40	25400	0.01	(0.005—0.015)	250
0.63	40	20200	0.014	(0.008—0.020)	280	40	20200	0.014	(0.008—0.020)	280
0.8	45	17900	0.028	(0.016—0.040)	500	45	17900	0.028	(0.016—0.040)	500
1.0	50	15900	0.035	(0.020—0.050)	555	50	15900	0.035	(0.020—0.050)	555
1.2	50	13200	0.045	(0.030—0.060)	590	50	13200	0.045	(0.030—0.060)	590
1.6	50	9900	0.055	(0.035—0.080)	540	50	9900	0.055	(0.035—0.080)	540
2.0	50	7900	0.07	(0.040—0.100)	550	50	7900	0.07	(0.040—0.100)	550
2.5	60	7600	0.085	(0.050—0.125)	645	60	7600	0.085	(0.050—0.125)	645
3.2	90	8900	0.1	(0.06—0.13)	890	80	7900	0.1	(0.06—0.13)	790
4.0	100	7900	0.12	(0.08—0.16)	945	90	7100	0.12	(0.08—0.16)	850
5.0	100	6300	0.15	(0.10—0.20)	945	90	5700	0.15	(0.10—0.20)	855
6.3	110	5500	0.2	(0.13—0.26)	1100	100	5000	0.2	(0.13—0.26)	1000
8.0	120	4700	0.23	(0.18—0.28)	1080	110	4300	0.23	(0.18—0.28)	985
10.0	130	4100	0.27	(0.22—0.32)	1105	120	3800	0.27	(0.22—0.32)	1025
12.0	140	3700	0.3	(0.26—0.34)	1110	130	3400	0.3	(0.26—0.34)	1020
16.0	160	3100	0.33	(0.27—0.38)	1020	140	2700	0.33	(0.27—0.38)	890
20.0	160	2500	0.35	(0.30—0.40)	875	140	2200	0.35	(0.30—0.40)	770
25.0	160	2000	0.35	(0.30—0.40)	700	140	1700	0.35	(0.30—0.40)	595

工件材料	碳钢·合金钢 (HB280—350)					奥氏体类不锈钢 (≤HB200)				
	SNCM439等					SUS304、SUS316等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
0.5	30	19000	0.01	(0.005—0.015)	190	20	12700	0.008	(0.005—0.010)	100
0.63	30	15100	0.014	(0.008—0.020)	210	20	10100	0.01	(0.008—0.013)	100
0.8	35	13900	0.028	(0.016—0.040)	385	25	9900	0.02	(0.016—0.026)	195
1.0	40	12700	0.035	(0.020—0.050)	440	30	9500	0.03	(0.020—0.044)	285
1.2	40	10600	0.045	(0.030—0.060)	475	30	7900	0.04	(0.030—0.053)	315
1.6	40	7900	0.055	(0.035—0.080)	430	30	5900	0.05	(0.035—0.070)	295
2.0	40	6300	0.07	(0.040—0.100)	440	30	4700	0.06	(0.040—0.080)	280
2.5	50	6300	0.085	(0.050—0.125)	535	40	5000	0.075	(0.050—0.100)	375
3.2	70	6900	0.1	(0.06—0.13)	690	40	3900	0.08	(0.06—0.10)	310
4.0	80	6300	0.11	(0.07—0.14)	690	40	3100	0.09	(0.06—0.11)	275
5.0	80	5000	0.14	(0.09—0.18)	700	40	2500	0.11	(0.08—0.14)	275
6.3	90	4500	0.18	(0.11—0.24)	810	50	2500	0.14	(0.09—0.18)	350
8.0	100	3900	0.21	(0.16—0.25)	815	50	1900	0.15	(0.10—0.19)	285
10.0	110	3500	0.23	(0.19—0.27)	805	50	1500	0.16	(0.12—0.20)	240
12.0	120	3100	0.26	(0.22—0.29)	805	60	1500	0.18	(0.15—0.21)	270
16.0	130	2500	0.28	(0.23—0.33)	700	60	1100	0.19	(0.14—0.24)	205
20.0	130	2000	0.3	(0.26—0.34)	600	60	900	0.21	(0.15—0.26)	185
25.0	130	1600	0.32	(0.28—0.35)	510	60	700	0.21	(0.17—0.25)	145

P

钻头

钻孔 [整体硬质合金钻头]

MWS
WSTAR钻头

推荐切削条件

■ SB/MB/LB/XB/DB型钻头 (L/D<10)

工件材料	灰铸铁 (≤350MPa)					球墨铸铁 (≤450MPa)				
	FC300等					FCD450等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
0.5	40	25400	0.01	(0.005—0.015)	250	30	19000	0.01	(0.005—0.015)	190
0.63	40	20200	0.014	(0.008—0.020)	280	30	15100	0.014	(0.008—0.020)	210
0.8	45	17900	0.028	(0.016—0.040)	500	35	13900	0.028	(0.016—0.040)	385
1.0	50	15900	0.035	(0.020—0.050)	555	40	12700	0.035	(0.020—0.050)	440
1.2	50	13200	0.045	(0.030—0.060)	590	40	10600	0.045	(0.030—0.060)	475
1.6	50	9900	0.055	(0.035—0.080)	540	40	7900	0.055	(0.035—0.080)	430
2.0	50	7900	0.07	(0.040—0.100)	550	40	6300	0.07	(0.040—0.100)	440
2.5	60	7600	0.085	(0.050—0.125)	645	50	6300	0.085	(0.050—0.125)	535
3.2	90	8900	0.1	(0.06—0.13)	890	65	6400	0.1	(0.06—0.13)	640
4.0	100	7900	0.12	(0.08—0.16)	945	65	5100	0.12	(0.08—0.16)	610
5.0	100	6300	0.15	(0.10—0.20)	945	65	4100	0.15	(0.10—0.20)	615
6.3	110	5500	0.2	(0.13—0.26)	1100	70	3500	0.2	(0.13—0.26)	700
8.0	120	4700	0.25	(0.18—0.31)	1175	70	2700	0.23	(0.18—0.28)	620
10.0	130	4100	0.29	(0.22—0.35)	1185	70	2200	0.27	(0.22—0.32)	590
12.0	140	3700	0.32	(0.26—0.37)	1180	90	2300	0.3	(0.26—0.34)	690
16.0	160	3100	0.35	(0.28—0.42)	1085	90	1700	0.33	(0.28—0.38)	560
20.0	160	2500	0.37	(0.30—0.44)	925	100	1500	0.35	(0.30—0.40)	525
25.0	160	2000	0.37	(0.30—0.44)	740	100	1200	0.35	(0.30—0.40)	420

工件材料	铝合金 (Si<5%)					耐热合金				
	A6061、A7075等					Inconel718等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
0.5	40	25400	0.014	(0.008—0.020)	355	10	6300	0.006	(0.004—0.008)	35
0.63	40	20200	0.02	(0.012—0.030)	400	10	5000	0.008	(0.007—0.010)	40
0.8	45	17900	0.036	(0.024—0.050)	640	10	3900	0.016	(0.013—0.021)	60
1.0	60	19000	0.05	(0.030—0.075)	950	10	3100	0.02	(0.016—0.027)	60
1.2	70	18500	0.065	(0.045—0.090)	1200	10	2600	0.025	(0.022—0.032)	65
1.6	80	15900	0.085	(0.053—0.120)	1350	10	1900	0.03	(0.025—0.040)	55
2.0	90	14300	0.105	(0.060—0.150)	1500	15	2300	0.04	(0.032—0.050)	90
2.5	100	12700	0.135	(0.075—0.200)	1710	15	1900	0.05	(0.040—0.060)	95
3.2	120	11900	0.23	(0.10—0.35)	2735	20	1900	0.07	(0.05—0.09)	130
4.0	120	9500	0.24	(0.12—0.35)	2280	20	1500	0.09	(0.06—0.11)	135
5.0	120	7600	0.25	(0.15—0.35)	1900	20	1200	0.11	(0.08—0.14)	130
6.3	150	7500	0.35	(0.20—0.50)	2625	25	1200	0.13	(0.09—0.16)	155
8.0	150	5900	0.35	(0.20—0.50)	2065	25	900	0.14	(0.11—0.17)	125
10.0	150	4700	0.5	(0.20—0.80)	2350	25	700	0.15	(0.12—0.17)	105
12.0	160	4200	0.5	(0.20—0.80)	2100	25	600	0.16	(0.13—0.18)	95
16.0	160	3100	0.6	(0.20—1.00)	1860	25	400	0.18	(0.14—0.21)	70
20.0	170	2700	0.6	(0.20—1.00)	1620	30	400	0.19	(0.15—0.22)	75
25.0	170	2100	0.6	(0.20—1.00)	1260	30	300	0.19	(0.15—0.22)	55

P
钻头

■ DB型钻头(L/D≥10)

工件材料	软钢 (≤HB180)					碳钢·合金钢 (HB180—280)				
	SS400、S10C等					S45C、SCM440等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
1.0	50	15900	0.02	(0.010—0.030)	320	40	12700	0.02	(0.010—0.030)	255
1.2	50	13200	0.025	(0.016—0.037)	330	40	10600	0.025	(0.016—0.037)	265
1.6	50	9900	0.055	(0.032—0.080)	545	40	7900	0.055	(0.032—0.080)	435
2.0	60	9500	0.07	(0.040—0.100)	665	50	7900	0.07	(0.040—0.100)	550
2.5	60	7600	0.09	(0.063—0.125)	685	50	6300	0.09	(0.055—0.125)	565
3.2	90	8900	0.1	(0.06—0.13)	890	80	7900	0.1	(0.06—0.13)	790
4.0	90	7100	0.12	(0.08—0.16)	850	80	6300	0.12	(0.08—0.16)	755
5.0	90	5700	0.15	(0.10—0.20)	855	80	5000	0.15	(0.10—0.20)	750
6.3	110	5500	0.2	(0.13—0.26)	1100	90	4500	0.2	(0.13—0.26)	900
8.0	110	4300	0.23	(0.18—0.28)	990	90	3500	0.23	(0.18—0.28)	805
10.0	110	3500	0.26	(0.20—0.32)	910	90	2800	0.26	(0.20—0.32)	730
12.0	130	3400	0.3	(0.25—0.34)	1020	110	2900	0.3	(0.25—0.34)	870
16.0	130	2500	0.31	(0.24—0.38)	775	110	2100	0.31	(0.24—0.38)	650

工件材料	碳钢·合金钢 (HB280—350)					奥氏体类不锈钢 (≤HB200)				
	SNCM439等					SUS304、SUS316等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
1.0	30	9500	0.015	(0.009—0.028)	140	30	9500	0.015	(0.009—0.028)	140
1.2	30	7900	0.02	(0.013—0.035)	160	30	7900	0.02	(0.013—0.035)	155
1.6	30	5900	0.05	(0.027—0.076)	295	30	5900	0.045	(0.025—0.065)	265
2.0	50	7900	0.065	(0.034—0.095)	515	30	4700	0.055	(0.030—0.080)	255
2.5	50	6300	0.08	(0.045—0.120)	505	40	5000	0.06	(0.035—0.085)	300
3.2	70	6900	0.09	(0.05—0.12)	620	40	3900	0.07	(0.05—0.09)	270
4.0	70	5500	0.11	(0.07—0.15)	605	40	3100	0.08	(0.06—0.10)	245
5.0	70	4400	0.14	(0.09—0.19)	615	40	2500	0.1	(0.07—0.12)	250
6.3	80	4000	0.18	(0.11—0.25)	720	50	2500	0.12	(0.08—0.16)	300
8.0	80	3100	0.21	(0.15—0.26)	650	50	1900	0.14	(0.10—0.17)	265
10.0	80	2500	0.23	(0.15—0.30)	575	50	1500	0.15	(0.12—0.18)	225
12.0	90	2300	0.25	(0.19—0.31)	575	60	1500	0.17	(0.14—0.19)	255
16.0	90	1700	0.28	(0.19—0.36)	475	60	1100	0.18	(0.13—0.22)	195

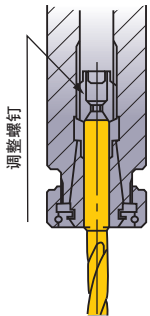
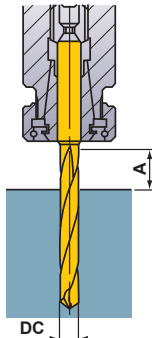
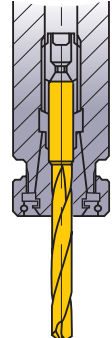
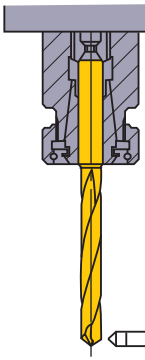
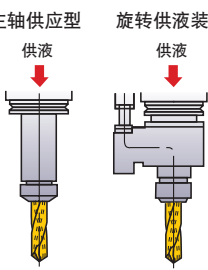
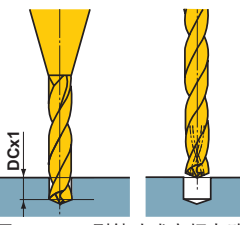
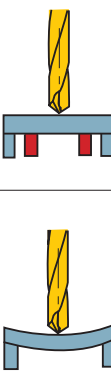
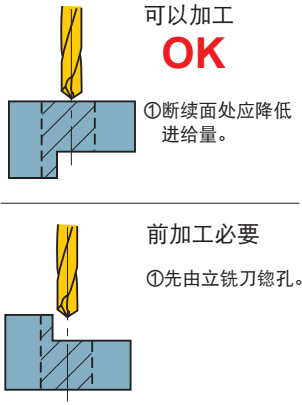
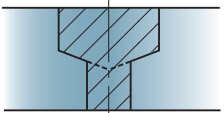
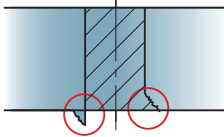
推荐切削条件

■ DB型钻头 (L/D≥10)

工件材料	灰铸铁 (≤350MPa)					球墨铸铁 (≤450MPa)				
	FC300等					FCD450等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
1.0	40	12700	0.02	(0.010—0.030)	255	30	9500	0.015	(0.009—0.028)	140
1.2	40	10600	0.025	(0.016—0.037)	265	30	7900	0.02	(0.013—0.035)	160
1.6	40	7900	0.055	(0.032—0.080)	435	30	5900	0.05	(0.027—0.076)	295
2.0	50	7900	0.07	(0.040—0.100)	550	50	7900	0.065	(0.034—0.095)	515
2.5	50	6300	0.09	(0.055—0.125)	565	50	6300	0.08	(0.045—0.120)	505
3.2	90	8900	0.1	(0.06—0.13)	890	50	4900	0.09	(0.05—0.12)	440
4.0	90	7100	0.12	(0.08—0.16)	850	50	3900	0.11	(0.07—0.15)	430
5.0	90	5700	0.15	(0.10—0.20)	855	50	3100	0.14	(0.09—0.19)	435
6.3	110	5500	0.2	(0.13—0.26)	1100	60	3000	0.18	(0.11—0.25)	540
8.0	110	4300	0.23	(0.18—0.28)	990	60	2300	0.21	(0.15—0.26)	480
10.0	110	3500	0.26	(0.20—0.32)	910	60	1900	0.23	(0.15—0.30)	435
12.0	130	3400	0.3	(0.25—0.34)	1020	80	2100	0.25	(0.19—0.31)	525
16.0	130	2500	0.31	(0.24—0.38)	775	80	1500	0.28	(0.19—0.36)	420

工件材料	铝合金 (Si<5%)					耐热合金				
	A6061、A7075等					Inconel718等				
钻头直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (min.—max.) (mm/rev)		进给速度 (mm/min)
1.0	50	15900	0.05	(0.030—0.075)	795	10	3100	0.02	(0.016—0.027)	60
1.2	60	15900	0.065	(0.045—0.090)	1035	10	2600	0.025	(0.022—0.032)	65
1.6	70	13900	0.085	(0.053—0.120)	1180	10	1900	0.03	(0.025—0.040)	55
2.0	80	12700	0.105	(0.060—0.150)	1335	15	2300	0.04	(0.032—0.050)	90
2.5	90	11400	0.135	(0.075—0.200)	1540	15	1900	0.05	(0.040—0.060)	95
3.2	100	9900	0.23	(0.10—0.35)	2275	20	1900	0.07	(0.05—0.09)	130
4.0	100	7900	0.24	(0.12—0.35)	1895	20	1500	0.09	(0.06—0.11)	135
5.0	100	6300	0.25	(0.15—0.35)	1575	20	1200	0.11	(0.08—0.14)	130
6.3	130	6500	0.35	(0.20—0.50)	2275	20	1000	0.13	(0.09—0.16)	130
8.0	130	5100	0.35	(0.20—0.50)	1785	20	700	0.14	(0.11—0.16)	100
10.0	130	4100	0.5	(0.20—0.80)	2050	20	600	0.15	(0.12—0.17)	90
12.0	140	3700	0.5	(0.20—0.80)	1850	20	500	0.16	(0.13—0.18)	80
16.0	140	2700	0.5	(0.20—0.80)	1350	20	300	0.17	(0.14—0.19)	50

■ SB/MB/LB/XB 型钻头高级使用方法

钻头装夹  使用推力轴承型的弹簧夹头可确保夹紧。	确定装夹钻头长度的方法  图中的A尺寸要确保$DC \times 1.5$以上。 ($DC < 3$的情况下, $DC \times 2.0$以上)	安装注意事项  NG 不能把钻头的沟槽部位夹住。	安装时的振摆 ($DC \geq 3$)  振摆应在0.03mm以内。
供液方法 ($DC \geq 3$)  切削液工作压力0.5-1MPa ($DC \leq 5$的情况下为2~3MPa、$DC < 3$的情况下最低为1.5MPa。推荐在3.0MPa以上)。 流量1.5-4.0l/min ($DC \geq 3$的情况下)。	小直径钻头的使用方法  ①用MWS-SB型钻头或市场上购置的中心钻, 钻削出深度为1DC(DC为钻头直径)的底孔。$DC < 3$的情况下, 导孔加工推荐使用SB型钻头。 ②用底孔作导向, 使用带冷却孔钻头进行加工时, 根据加工情况推荐采用步进进给加工或微进给加工。	切削液的管理 1) 供液系统必须安装切削液过滤网。细小的切屑颗粒等会堵塞冷却孔。特别是使用小直径钻头, 应尽量选用细目滤网。 2) 切削液用久后, 液中的细小杂物会附在冷却孔内, 导致供液不畅。应及时更换。	薄板钻削  OK 增加支承 NG 发生挠曲
断续钻削 ($DC \geq 3$)  可以加工 OK ①断续面处应降低进给量。 前加工必要 ①先由立铣刀镗孔。	阶梯孔钻削 ($DC \geq 3$)  ①可分两个工序钻削。 ②先钻削大直径部分。 ※本公司也制造带铤孔或倒角刃的复合钻头。	将钻通时出现毛刺、塌陷 ($DC \geq 3$)  ①将钻通时应降低进给量。 ②钻头肩部处理成倒角。 ③改变钻头顶角。	

■ 使用注意事项 (使用 $DC < 3$ 的情况下)

- 为防止冷却孔堵塞, 供液装置上应使用精密过滤网(网眼尺寸 $\leq 3\mu\text{m}$)。
- 用长钻头加工深孔时, 需要事先加工导孔。
(离心力的作用可能使钻头发生折损。)

■ DB 型钻头 (L/D ≥ 10, DC < 3) 高级使用方法

加工部位为平面的加工 ● 加工盲孔时

■ 1. 导孔加工



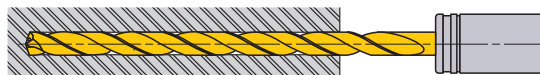
- ① 导孔加工推荐使用SB型钻头。
- ② 确保良好的导孔精度(圆度)。
- ③ 孔深DC×1左右即可。
(请根据长钻头的长度调整导孔深度。)

■ 2. 深孔加工(插进导孔内)



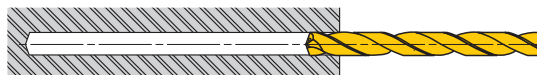
- ① 请在低转速条件下插进导孔内。
(转速1000min⁻¹、进给量0.2~0.3mm/rev左右)
- ② 插至距导孔底部0.5~1mm左右的位置。(确保切削刃肩部全部插入)

■ 3. 深孔加工(加工开始、结束)



- ① 开始旋转、进给加工(非步进加工)

■ 4. 深孔加工(退回)



- ① 加工结束后,在距孔底0.5~1mm的位置降低转速。
(转速1000min⁻¹左右)
- ② 将钻头以3000mm/min的进给速度退回到开始加工的位置。
- ③ 以与插进导孔时同样的条件退出。

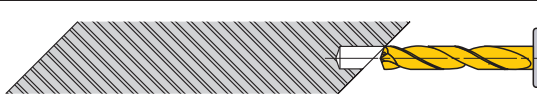
包含断续的加工情况 ● 加工部位为倾斜面或异形时。钻通部位为倾斜面或异形时。

■ 1. 铤孔加工



- ① 在为倾斜面加工深孔时,推荐MFE钻头作为立铣刀或用于加工导孔的钻头使用。
- ② 确保良好的导孔精度(圆度)。
- ③ 孔深DC×1左右即可。

■ 2. 导孔加工



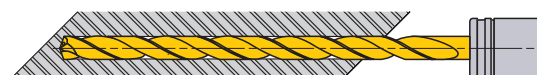
- ① 导孔加工推荐使用SB型钻头。
- ② 确保良好的导孔精度(圆度)。
- ③ 孔深DC×1左右即可。
(请根据长钻头的长度调整导孔深度。)

■ 3. 深孔加工(插进导孔内)



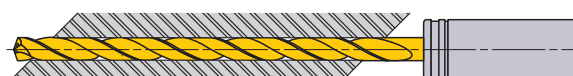
- ① 请在低转速条件下插进导孔内。
(转速1000min⁻¹、进给量0.2~0.3mm/rev左右)
- ② 插至距导孔底部0.5~1mm左右的位置。

■ 4. 深孔加工(加工开始、钻通前)



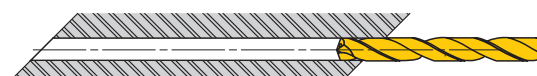
- ① 开始旋转、进给加工(非步进加工)
- ② 钻通前用通常的进给速度。

■ 5. 深孔加工(钻通时的断续切削)



- ① 钻通时的断续切削易损伤切削刃。
- ② 断续加工时的进给量应采用普通进给量的一半左右。

■ 6. 深孔加工(退回)



- ① 钻通后请降低转速。(转速1000min⁻¹左右)
- ② 将钻头以3000mm/min的进给速度退回到开始加工的位置。

■ 小径长钻头(L/D=3以上)的高级使用方法

加工部位为平面的加工 ●加工盲孔时

■ 1. 导孔加工



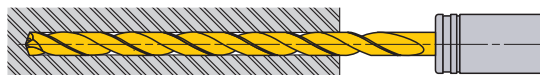
- ①导孔加工用钻头的顶角角度需大于长钻头的140°顶角。
- ②确保良好的导孔精度(圆度)。
- ③孔深 $DC \times 1 \sim 2$ 左右即可。
- 推荐MVS导向钻头的先端角为145° (请根据长钻头的长度调整导孔深度。)

■ 2. 深孔加工(插进导孔内)



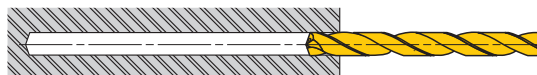
- ①请在低转速条件下插进导孔内。(切削速度20~30m/min、进给量0.2~0.3mm/rev左右)
- ②插至距导孔底部1~3mm左右的位置。(确保切削刃肩部全部插入)

■ 3. 深孔加工(加工开始、结束)



- ①开始旋转、进给加工(非步进加工)

■ 4. 深孔加工(退回)



- ①加工结束后,在距孔底1~2mm的位置降低转速。(切削速度20~30m/min左右)
- ②将钻头以3000mm/min的进给速度退回到开始加工的位置。
- ③以与插进导孔时同样的条件退出。

包含断续的加工情况 ●加工部位为倾斜面或异形时。钻通部位为倾斜面或异形时。

■ 1. 铰孔加工



- ①在为倾斜面加工深孔时,推荐MFE钻头作为立铣刀或用于加工导孔的钻头使用。
- ②确保良好的导孔精度(圆度)。
- ③孔深 $DC \times 1$ 左右即可。

■ 2. 导孔加工



- ①导孔加工用钻头的顶角角度需大于长钻头的140°顶角。
- ②确保良好的导孔精度(圆度)。
- ③孔深 $DC \times 1 \sim 2$ 左右即可。
- 推荐MVS导向钻头的先端角为145° (请根据长钻头的长度调整导孔深度。)

■ 3. 深孔加工(插进导孔内)



- ①请在低转速条件下插进导孔内。(切削速度20~30m/min、进给量0.2~0.3mm/rev左右)
- ②插至距导孔底部1~3mm左右的位置。

■ 4. 深孔加工(加工开始、钻通前)



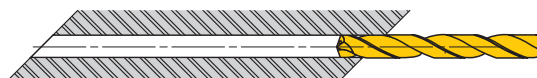
- ①开始旋转、进给加工(非步进加工)
- ②钻通前用通常的进给速度。

■ 5. 深孔加工(钻通时的断续切削)



- ①钻通时的断续切削易损伤切削刃。
- ②钻通时的进给量推荐为0.05~0.1mm/rev。

■ 6. 深孔加工(退回)



- ①钻通后请降低转速。(切削速度20~30m/min左右)
- ②将钻头以3000mm/min的进给速度退回到开始加工的位置。

钻孔 [整体硬质合金钻头]

MZE

ZET1钻头

●宽阔的槽宽实现了良好地排出切屑。



P

钢

M

不锈钢

K

铸铁

N

有色金属

S

耐热合金

H

高硬度钢

外冷却

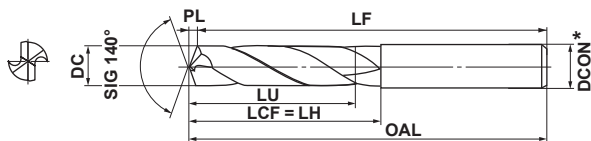


图1

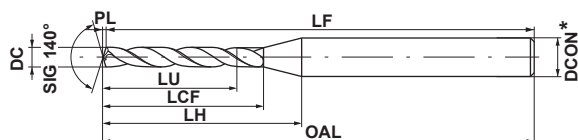


图2

※ DCON < 2 : h₆
DCON ≥ 2 : h₈

DC < 2	2 ≤ DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 18	18 < DC ≤ 20
0 -0.014	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
2 ≤ DCON ≤ 3	3 < DCON ≤ 6	6 < DCON ≤ 10	10 < DCON ≤ 18	18 < DCON ≤ 20	
h_6 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033	

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
1.0	2	●	MZE0100SB	2.2	6.2	8.2	55.2	55	0.2	2.0	2
1.1	2	●	MZE0110SB	2.4	7.2	9.2	55.2	55	0.2	2.0	2
1.2	2	●	MZE0120SB	2.6	8.2	9.2	55.2	55	0.2	2.0	2
1.3	2	●	MZE0130SB	2.8	8.2	9.2	55.2	55	0.2	2.0	2
1.4	2	●	MZE0140SB	3.1	9.3	10.3	55.3	55	0.3	2.0	2
1.5	2	●	MZE0150SB	3.3	9.3	10.3	55.3	55	0.3	2.0	2
1.6	2	●	MZE0160SB	3.5	10.3	10.3	55.3	55	0.3	2.0	1
1.7	2	●	MZE0170SB	3.7	10.3	10.3	55.3	55	0.3	2.0	1
1.8	2	●	MZE0180SB	3.9	11.3	11.3	55.3	55	0.3	2.0	1
1.9	2	●	MZE0190SB	4.1	11.3	11.3	55.3	55	0.3	2.0	1
2.0	2	●	MZE0200SA	4.4	12.4	12.4	55.4	55	0.4	2.0	1
2.0	3	●	MZE0200MA	6.4	16.4	16.4	55.4	55	0.4	2.0	1
2.1	2	●	MZE0210SA	4.6	12.4	12.4	55.4	55	0.4	2.1	1
2.1	3	●	MZE0210MA	6.7	16.4	16.4	55.4	55	0.4	2.1	1
2.2	2	●	MZE0220SA	4.8	13.4	13.4	55.4	55	0.4	2.2	1
2.2	3	●	MZE0220MA	7.0	18.4	18.4	55.4	55	0.4	2.2	1
2.3	2	●	MZE0230SA	5.0	13.4	13.4	55.4	55	0.4	2.3	1
2.3	3	●	MZE0230MA	7.3	18.4	18.4	55.4	55	0.4	2.3	1
2.4	2	●	MZE0240SA	5.2	16.4	16.4	55.4	55	0.4	2.4	1
2.4	3	●	MZE0240MA	7.6	20.4	20.4	55.4	55	0.4	2.4	1
2.5	2	●	MZE0250SA	5.5	16.5	16.5	55.5	55	0.5	2.5	1
2.5	3	●	MZE0250MA	8.0	20.5	20.5	55.5	55	0.5	2.5	1
2.6	2	●	MZE0260SA	5.7	16.5	16.5	55.5	55	0.5	2.6	1
2.6	3	●	MZE0260MA	8.3	20.5	20.5	55.5	55	0.5	2.6	1
2.7	2	●	MZE0270SA	5.9	16.5	16.5	55.5	55	0.5	2.7	1
2.7	3	●	MZE0270MA	8.6	20.5	20.5	55.5	55	0.5	2.7	1

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
2.8	2	●	MZE0280SA	6.1	16.5	16.5	55.5	55	0.5	2.8	1
2.8	3	●	MZE0280MA	8.9	21.5	21.5	60.5	60	0.5	2.8	1
2.9	2	●	MZE0290SA	6.3	16.5	16.5	55.5	55	0.5	2.9	1
2.9	3	●	MZE0290MA	9.2	21.5	21.5	60.5	60	0.5	2.9	1
3.0	2	●	MZE0300SA	6.5	16.5	16.5	55.5	55	0.5	3.0	1
3.0	3	●	MZE0300MA	9.5	21.5	21.5	60.5	60	0.5	3.0	1
3.1	2	●	MZE0310SA	6.8	18.6	18.6	55.6	55	0.6	3.1	1
3.1	3	●	MZE0310MA	9.9	24.6	24.6	60.6	60	0.6	3.1	1
3.2	2	●	MZE0320SA	7.0	18.6	18.6	55.6	55	0.6	3.2	1
3.2	3	●	MZE0320MA	10.2	24.6	24.6	60.6	60	0.6	3.2	1
3.3	2	●	MZE0330SA	7.2	18.6	18.6	55.6	55	0.6	3.3	1
3.3	3	●	MZE0330MA	10.5	24.6	24.6	60.6	60	0.6	3.3	1
3.4	2	●	MZE0340SA	7.4	20.6	20.6	55.6	55	0.6	3.4	1
3.4	3	●	MZE0340MA	10.8	24.6	24.6	60.6	60	0.6	3.4	1
3.5	2	●	MZE0350SA	7.6	20.6	20.6	55.6	55	0.6	3.5	1
3.5	3	●	MZE0350MA	11.1	24.6	24.6	60.6	60	0.6	3.5	1
3.6	2	●	MZE0360SA	7.9	20.7	20.7	55.7	55	0.7	3.6	1
3.6	3	●	MZE0360MA	11.5	27.7	27.7	60.7	60	0.7	3.6	1
3.7	2	●	MZE0370SA	8.1	20.7	20.7	55.7	55	0.7	3.7	1
3.7	3	●	MZE0370MA	11.8	27.7	27.7	60.7	60	0.7	3.7	1
3.8	2	●	MZE0380SA	8.3	22.7	22.7	55.7	55	0.7	3.8	1
3.8	3	●	MZE0380MA	12.1	27.7	27.7	60.7	60	0.7	3.8	1
3.9	2	●	MZE0390SA	8.5	22.7	22.7	55.7	55	0.7	3.9	1
3.9	3	●	MZE0390MA	12.4	27.7	27.7	60.7	60	0.7	3.9	1
4.0	2	●	MZE0400SA	8.7	22.7	22.7	55.7	55	0.7	4.0	1
4.0	3	●	MZE0400MA	12.7	27.7	27.7	60.7	60	0.7	4.0	1

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●：标准库存品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
4.1	2	●	MZE0410SA	8.9	22.7	22.7	55.7	55	0.7	4.1	1
4.1	3	●	MZE0410MA	13.0	29.7	29.7	63.7	63	0.7	4.1	1
4.2	2	●	MZE0420SA	9.2	22.8	22.8	55.8	55	0.8	4.2	1
4.2	3	●	MZE0420MA	13.4	29.8	29.8	63.8	63	0.8	4.2	1
4.3	2	●	MZE0430SA	9.4	24.8	24.8	58.8	58	0.8	4.3	1
4.3	3	●	MZE0430MA	13.7	29.8	29.8	63.8	63	0.8	4.3	1
4.4	2	●	MZE0440SA	9.6	24.8	24.8	58.8	58	0.8	4.4	1
4.4	3	●	MZE0440MA	14.0	29.8	29.8	63.8	63	0.8	4.4	1
4.5	2	●	MZE0450SA	9.8	24.8	24.8	58.8	58	0.8	4.5	1
4.5	3	●	MZE0450MA	14.3	29.8	29.8	63.8	63	0.8	4.5	1
4.6	2	●	MZE0460SA	10.0	24.8	24.8	58.8	58	0.8	4.6	1
4.6	3	●	MZE0460MA	14.6	32.8	32.8	68.8	68	0.8	4.6	1
4.7	2	●	MZE0470SA	10.3	24.9	24.9	58.9	58	0.9	4.7	1
4.7	3	●	MZE0470MA	15.0	32.9	32.9	68.9	68	0.9	4.7	1
4.8	2	●	MZE0480SA	10.5	26.9	26.9	62.9	62	0.9	4.8	1
4.8	3	●	MZE0480MA	15.3	32.9	32.9	68.9	68	0.9	4.8	1
4.9	2	●	MZE0490SA	10.7	26.9	26.9	62.9	62	0.9	4.9	1
4.9	3	●	MZE0490MA	15.6	32.9	32.9	68.9	68	0.9	4.9	1
5.0	2	●	MZE0500SA	10.9	26.9	26.9	62.9	62	0.9	5.0	1
5.0	3	●	MZE0500MA	15.9	32.9	32.9	68.9	68	0.9	5.0	1
5.1	2	●	MZE0510SA	11.1	26.9	26.9	62.9	62	0.9	5.1	1
5.1	3	●	MZE0510MA	16.2	34.9	34.9	72.9	72	0.9	5.1	1
5.2	2	●	MZE0520SA	11.3	26.9	26.9	62.9	62	0.9	5.2	1
5.2	3	●	MZE0520MA	16.5	34.9	34.9	72.9	72	0.9	5.2	1
5.3	2	●	MZE0530SA	11.6	27.0	27.0	63.0	62	1.0	5.3	1
5.3	3	●	MZE0530MA	16.9	35.0	35.0	73.0	72	1.0	5.3	1
5.4	2	●	MZE0540SA	11.8	29.0	29.0	67.0	66	1.0	5.4	1
5.4	3	●	MZE0540MA	17.2	35.0	35.0	73.0	72	1.0	5.4	1
5.5	2	●	MZE0550SA	12.0	29.0	29.0	67.0	66	1.0	5.5	1
5.5	3	●	MZE0550MA	17.5	35.0	35.0	73.0	72	1.0	5.5	1
5.6	2	●	MZE0560SA	12.2	29.0	29.0	67.0	66	1.0	5.6	1
5.6	3	●	MZE0560MA	17.8	37.0	37.0	75.0	74	1.0	5.6	1
5.7	2	●	MZE0570SA	12.4	29.0	29.0	67.0	66	1.0	5.7	1
5.7	3	●	MZE0570MA	18.1	37.0	37.0	75.0	74	1.0	5.7	1
5.8	2	●	MZE0580SA	12.7	29.1	29.1	67.1	66	1.1	5.8	1
5.8	3	●	MZE0580MA	18.5	37.1	37.1	75.1	74	1.1	5.8	1
5.9	2	●	MZE0590SA	12.9	29.1	29.1	67.1	66	1.1	5.9	1
5.9	3	●	MZE0590MA	18.8	37.1	37.1	75.1	74	1.1	5.9	1
6.0	2	●	MZE0600SA	13.1	29.1	29.1	67.1	66	1.1	6.0	1
6.0	3	●	MZE0600MA	19.1	42.1	42.1	82.1	81	1.1	6.0	1
6.1	2	●	MZE0610SA	13.3	32.1	32.1	71.1	70	1.1	6.1	1
6.1	3	●	MZE0610MA	19.4	42.1	42.1	82.1	81	1.1	6.1	1
6.2	2	●	MZE0620SA	13.5	32.1	32.1	71.1	70	1.1	6.2	1
6.2	3	●	MZE0620MA	19.7	42.1	42.1	82.1	81	1.1	6.2	1
6.3	2	●	MZE0630SA	13.7	32.1	32.1	71.1	70	1.1	6.3	1
6.3	3	●	MZE0630MA	20.0	42.1	42.1	82.1	81	1.1	6.3	1
6.4	2	●	MZE0640SA	14.0	32.2	32.2	71.2	70	1.2	6.4	1
6.4	3	●	MZE0640MA	20.4	42.2	42.2	82.2	81	1.2	6.4	1

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
6.5	2	●	MZE0650SA	14.2	32.2	32.2	71.2	70	1.2	6.5	1
6.5	3	●	MZE0650MA	20.7	42.2	42.2	82.2	81	1.2	6.5	1
6.6	2	●	MZE0660SA	14.4	32.2	32.2	71.2	70	1.2	6.6	1
6.6	3	●	MZE0660MA	21.0	44.2	44.2	84.2	83	1.2	6.6	1
6.7	2	●	MZE0670SA	14.6	32.2	32.2	71.2	70	1.2	6.7	1
6.7	3	●	MZE0670MA	21.3	44.2	44.2	84.2	83	1.2	6.7	1
6.8	2	●	MZE0680SA	14.8	35.2	35.2	75.2	74	1.2	6.8	1
6.8	3	●	MZE0680MA	21.6	44.2	44.2	84.2	83	1.2	6.8	1
6.9	2	●	MZE0690SA	15.1	35.3	35.3	75.3	74	1.3	6.9	1
6.9	3	●	MZE0690MA	22.0	44.3	44.3	84.3	83	1.3	6.9	1
7.0	2	●	MZE0700SA	15.3	35.3	35.3	75.3	74	1.3	7.0	1
7.0	3	●	MZE0700MA	22.3	44.3	44.3	84.3	83	1.3	7.0	1
7.1	2	●	MZE0710SA	15.5	35.3	35.3	75.3	74	1.3	7.1	1
7.1	3	●	MZE0710MA	22.6	46.3	46.3	88.3	87	1.3	7.1	1
7.2	2	●	MZE0720SA	15.7	35.3	35.3	75.3	74	1.3	7.2	1
7.2	3	●	MZE0720MA	22.9	46.3	46.3	88.3	87	1.3	7.2	1
7.3	2	●	MZE0730SA	15.9	35.3	35.3	75.3	74	1.3	7.3	1
7.3	3	●	MZE0730MA	23.2	46.3	46.3	88.3	87	1.3	7.3	1
7.4	2	●	MZE0740SA	16.1	35.3	35.3	75.3	74	1.3	7.4	1
7.4	3	●	MZE0740MA	23.5	46.3	46.3	88.3	87	1.3	7.4	1
7.5	2	●	MZE0750SA	16.4	35.4	35.4	75.4	74	1.4	7.5	1
7.5	3	●	MZE0750MA	23.9	46.4	46.4	88.4	87	1.4	7.5	1
7.6	2	●	MZE0760SA	16.6	38.4	38.4	80.4	79	1.4	7.6	1
7.6	3	●	MZE0760MA	24.2	49.4	49.4	91.4	90	1.4	7.6	1
7.7	2	●	MZE0770SA	16.8	38.4	38.4	80.4	79	1.4	7.7	1
7.7	3	●	MZE0770MA	24.5	49.4	49.4	91.4	90	1.4	7.7	1
7.8	2	●	MZE0780SA	17.0	38.4	38.4	80.4	79	1.4	7.8	1
7.8	3	●	MZE0780MA	24.8	49.4	49.4	91.4	90	1.4	7.8	1
7.9	2	●	MZE0790SA	17.2	38.4	38.4	80.4	79	1.4	7.9	1
7.9	3	●	MZE0790MA	25.1	49.4	49.4	91.4	90	1.4	7.9	1
8.0	2	●	MZE0800SA	17.5	38.5	38.5	80.5	79	1.5	8.0	1
8.0	3	●	MZE0800MA	25.5	49.5	49.5	91.5	90	1.5	8.0	1
8.1	2	●	MZE0810SA	17.7	38.5	38.5	80.5	79	1.5	8.1	1
8.1	3	●	MZE0810MA	25.8	54.5	54.5	97.5	96	1.5	8.1	1
8.2	2	●	MZE0820SA	17.9	38.5	38.5	80.5	79	1.5	8.2	1
8.2	3	●	MZE0820MA	26.1	54.5	54.5	97.5	96	1.5	8.2	1
8.3	2	●	MZE0830SA	18.1	38.5	38.5	80.5	79	1.5	8.3	1
8.3	3	●	MZE0830MA	26.4	54.5	54.5	97.5	96	1.5	8.3	1
8.4	2	●	MZE0840SA	18.3	38.5	38.5	80.5	79	1.5	8.4	1
8.4	3	●	MZE0840MA	26.7	54.5	54.5	97.5	96	1.5	8.4	1
8.5	2	●	MZE0850SA	18.5	38.5	38.5	80.5	79	1.5	8.5	1
8.5	3	●	MZE0850MA	27.0	54.5	54.5	97.5	96	1.5	8.5	1
8.6	2	●	MZE0860SA	18.8	41.6	41.6	85.6	84	1.6	8.6	1
8.6	3	●	MZE0860MA	27.4	56.6	56.6	99.6	98	1.6	8.6	1
8.7	2	●	MZE0870SA	19.0	41.6	41.6	85.6	84	1.6	8.7	1
8.7	3	●	MZE0870MA	27.7	56.6	56.6	99.6	98	1.6	8.7	1
8.8	2	●	MZE0880SA	19.2	41.6	41.6	85.6	84	1.6	8.8	1
8.8	3	●	MZE0880MA	28.0	56.6	56.6	99.6	98	1.6	8.8	1

P

钻头

DC	钻削孔深 (mm)	VP15TF (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
8.9	2	●	MZE0890SA	19.4	41.6	41.6	85.6	84	1.6	8.9	1
8.9	3	●	MZE0890MA	28.3	56.6	56.6	99.6	98	1.6	8.9	1
9.0	2	●	MZE0900SA	19.6	41.6	41.6	85.6	84	1.6	9.0	1
9.0	3	●	MZE0900MA	28.6	56.6	56.6	99.6	98	1.6	9.0	1
9.1	2	●	MZE0910SA	19.9	41.7	41.7	85.7	84	1.7	9.1	1
9.1	3	●	MZE0910MA	29.0	59.7	59.7	103.7	102	1.7	9.1	1
9.2	2	●	MZE0920SA	20.1	41.7	41.7	85.7	84	1.7	9.2	1
9.2	3	●	MZE0920MA	29.3	59.7	59.7	103.7	102	1.7	9.2	1
9.3	2	●	MZE0930SA	20.3	41.7	41.7	85.7	84	1.7	9.3	1
9.3	3	●	MZE0930MA	29.6	59.7	59.7	103.7	102	1.7	9.3	1
9.4	2	●	MZE0940SA	20.5	41.7	41.7	85.7	84	1.7	9.4	1
9.4	3	●	MZE0940MA	29.9	59.7	59.7	103.7	102	1.7	9.4	1
9.5	2	●	MZE0950SA	20.7	41.7	41.7	85.7	84	1.7	9.5	1
9.5	3	●	MZE0950MA	30.2	59.7	59.7	103.7	102	1.7	9.5	1
9.6	2	●	MZE0960SA	20.9	44.7	44.7	90.7	89	1.7	9.6	1
9.6	3	●	MZE0960MA	30.5	61.7	61.7	106.7	105	1.7	9.6	1
9.7	2	●	MZE0970SA	21.2	44.8	44.8	90.8	89	1.8	9.7	1
9.7	3	●	MZE0970MA	30.9	61.8	61.8	106.8	105	1.8	9.7	1
9.8	2	●	MZE0980SA	21.4	44.8	44.8	90.8	89	1.8	9.8	1
9.8	3	●	MZE0980MA	31.2	61.8	61.8	106.8	105	1.8	9.8	1
9.9	2	●	MZE0990SA	21.6	44.8	44.8	90.8	89	1.8	9.9	1
9.9	3	●	MZE0990MA	31.5	61.8	61.8	106.8	105	1.8	9.9	1
10.0	2	●	MZE1000SA	21.8	44.8	44.8	90.8	89	1.8	10.0	1
10.0	3	●	MZE1000MA	31.8	61.8	61.8	106.8	105	1.8	10.0	1
10.1	2	●	MZE1010SA	22.0	44.8	44.8	90.8	89	1.8	10.1	1
10.1	3	●	MZE1010MA	32.1	67.8	67.8	113.8	112	1.8	10.1	1
10.2	2	●	MZE1020SA	22.3	44.9	44.9	90.9	89	1.9	10.2	1
10.2	3	●	MZE1020MA	32.5	67.9	67.9	113.9	112	1.9	10.2	1
10.3	2	●	MZE1030SA	22.5	44.9	44.9	90.9	89	1.9	10.3	1
10.3	3	●	MZE1030MA	32.8	67.9	67.9	113.9	112	1.9	10.3	1
10.4	2	●	MZE1040SA	22.7	44.9	44.9	90.9	89	1.9	10.4	1
10.4	3	●	MZE1040MA	33.1	67.9	67.9	113.9	112	1.9	10.4	1
10.5	2	●	MZE1050SA	22.9	44.9	44.9	90.9	89	1.9	10.5	1
10.5	3	●	MZE1050MA	33.4	67.9	67.9	113.9	112	1.9	10.5	1
10.6	2	●	MZE1060SA	23.1	44.9	44.9	90.9	89	1.9	10.6	1
10.6	3	●	MZE1060MA	33.7	69.9	69.9	115.9	114	1.9	10.6	1
10.7	2	●	MZE1070SA	23.3	48.9	48.9	96.9	95	1.9	10.7	1
10.7	3	●	MZE1070MA	34.0	69.9	69.9	115.9	114	1.9	10.7	1
10.8	2	●	MZE1080SA	23.6	49.0	49.0	97.0	95	2.0	10.8	1
10.8	3	●	MZE1080MA	34.4	70.0	70.0	116.0	114	2.0	10.8	1
10.9	2	●	MZE1090SA	23.8	49.0	49.0	97.0	95	2.0	10.9	1
10.9	3	●	MZE1090MA	34.7	70.0	70.0	116.0	114	2.0	10.9	1
11.0	2	●	MZE1100SA	24.0	49.0	49.0	97.0	95	2.0	11.0	1
11.0	3	●	MZE1100MA	35.0	70.0	70.0	116.0	114	2.0	11.0	1
11.1	2	●	MZE1110SA	24.2	49.0	49.0	97.0	95	2.0	11.1	1
11.1	3	●	MZE1110MA	35.3	73.0	73.0	120.0	118	2.0	11.1	1
11.2	2	●	MZE1120SA	24.4	49.0	49.0	97.0	95	2.0	11.2	1
11.2	3	●	MZE1120MA	35.6	73.0	73.0	120.0	118	2.0	11.2	1

DC	钻削孔深 (mm)	VP15TF (L/D)	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
11.3	2	●	MZE1130SA	24.7	49.1	49.1	97.1	95	2.1	11.3	1
11.3	3	●	MZE1130MA	36.0	73.1	73.1	120.1	118	2.1	11.3	1
11.4	2	●	MZE1140SA	24.9	49.1	49.1	97.1	95	2.1	11.4	1
11.4	3	●	MZE1140MA	36.3	73.1	73.1	120.1	118	2.1	11.4	1
11.5	2	●	MZE1150SA	25.1	49.1	49.1	97.1	95	2.1	11.5	1
11.5	3	●	MZE1150MA	36.6	73.1	73.1	120.1	118	2.1	11.5	1
11.6	2	●	MZE1160SA	25.3	49.1	49.1	97.1	95	2.1	11.6	1
11.6	3	●	MZE1160MA	36.9	75.1	75.1	123.1	121	2.1	11.6	1
11.7	2	●	MZE1170SA	25.5	49.1	49.1	97.1	95	2.1	11.7	1
11.7	3	●	MZE1170MA	37.2	75.1	75.1	123.1	121	2.1	11.7	1
11.8	2	●	MZE1180SA	25.7	49.1	49.1	97.1	95	2.1	11.8	1
11.8	3	●	MZE1180MA	37.5	75.1	75.1	123.1	121	2.1	11.8	1
11.9	2	●	MZE1190SA	26.0	53.2	53.2	104.2	102	2.2	11.9	1
11.9	3	●	MZE1190MA	37.9	75.2	75.2	123.2	121	2.2	11.9	1
12.0	2	●	MZE1200SA	26.2	53.2	53.2	104.2	102	2.2	12.0	1
12.0	3	●	MZE1200MA	38.2	75.2	75.2	123.2	121	2.2	12.0	1
12.1	2	●	MZE1210SA	26.4	53.2	53.2	104.2	102	2.2	12.1	1
12.1	3	●	MZE1210MA	38.5	78.2	78.2	137.2	135	2.2	12.1	1
12.2	2	●	MZE1220SA	26.6	53.2	53.2	104.2	102	2.2	12.2	1
12.2	3	●	MZE1220MA	38.8	78.2	78.2	137.2	135	2.2	12.2	1
12.3	2	●	MZE1230SA	26.8	53.2	53.2	104.2	102	2.2	12.3	1
12.3	3	●	MZE1230MA	39.1	78.2	78.2	137.2	135	2.2	12.3	1
12.4	2	●	MZE1240SA	27.1	53.3	53.3	104.3	102	2.3	12.4	1
12.4	3	●	MZE1240MA	39.5	78.3	78.3	137.3	135	2.3	12.4	1
12.5	2	●	MZE1250SA	27.3	53.3	53.3	104.3	102	2.3	12.5	1
12.5	3	●	MZE1250MA	39.8	78.3	78.3	137.3	135	2.3	12.5	1
12.6	2	●	MZE1260SA	27.5	53.3	53.3	104.3	102	2.3	12.6	1
12.6	3	●	MZE1260MA	40.1	80.3	80.3	139.3	137	2.3	12.6	1
12.7	2	●	MZE1270SA	27.7	53.3	53.3	104.3	102	2.3	12.7	1
12.7	3	●	MZE1270MA	40.4	80.3	80.3	139.3	137	2.3	12.7	1
12.8	2	●	MZE1280SA	27.9	53.3	53.3	104.3	102	2.3	12.8	1
12.8	3	●	MZE1280MA	40.7	80.3	80.3	139.3	137	2.3	12.8	1
12.9	2	●	MZE1290SA	28.1	53.3	53.3	104.3	102	2.3	12.9	1
12.9	3	●	MZE1290MA	41.0	80.3	80.3	139.3	137	2.3	12.9	1
13.0	2	●	MZE1300SA	28.4	53.4	53.4	104.4	102	2.4	13.0	1
13.0	3	●	MZE1300MA	41.4	80.4	80.4	139.4	137	2.4	13.0	1
13.1	2	●	MZE1310SA	28.6	53.4	53.4	104.4	102	2.4	13.1	1
13.1	3	●	MZE1310MA	41.7	86.4	86.4	146.4	144	2.4	13.1	1
13.2	2	●	MZE1320SA	28.8	53.4	53.4	104.4	102	2.4	13.2	1
13.2	3	●	MZE1320MA	42.0	86.4	86.4	146.4	144	2.4	13.2	1
13.3	2	●	MZE1330SA	29.0	56.4	56.4	109.4	107	2.4	13.3	1
13.3	3	●	MZE1330MA	42.3	86.4	86.4	146.4	144	2.4	13.3	1
13.4	2	●	MZE1340SA	29.2	56.4	56.4	109.4	107	2.4	13.4	1
13.4	3	●	MZE1340MA	42.6	86.4	86.4	146.4	144	2.4	13.4	1
13.5	2	●	MZE1350SA	29.5	56.5	56.5	109.5	107	2.5	13.5	1
13.5	3	●	MZE1350MA	43.0	86.5	86.5	146.5	144	2.5	13.5	1
13.6	2	●	MZE1360SA	29.7	56.5	56.5	109.5	107	2.5	13.6	1
13.6	3	●	MZE1360MA	43.3	88.5	88.5	149.5	147	2.5	13.6	1

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

●: 标准库存品 □: 预订生产品

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
13.7	2	●	MZE1370SA	29.9	56.5	56.5	109.5	107	2.5	13.7	1
13.7	3	●	MZE1370MA	43.6	88.5	88.5	149.5	147	2.5	13.7	1
13.8	2	●	MZE1380SA	30.1	56.5	56.5	109.5	107	2.5	13.8	1
13.8	3	●	MZE1380MA	43.9	88.5	88.5	149.5	147	2.5	13.8	1
13.9	2	●	MZE1390SA	30.3	56.5	56.5	109.5	107	2.5	13.9	1
13.9	3	●	MZE1390MA	44.2	88.5	88.5	149.5	147	2.5	13.9	1
14.0	2	●	MZE1400SA	30.5	56.5	56.5	109.5	107	2.5	14.0	1
14.0	3	●	MZE1400MA	44.5	88.5	88.5	149.5	147	2.5	14.0	1
14.1	2	●	MZE1410SA	30.8	58.6	58.6	113.6	111	2.6	14.1	1
14.1	3	●	MZE1410MA	44.9	91.6	91.6	153.6	151	2.6	14.1	1
14.2	2	●	MZE1420SA	31.0	58.6	58.6	113.6	111	2.6	14.2	1
14.2	3	●	MZE1420MA	45.2	91.6	91.6	153.6	151	2.6	14.2	1
14.3	2	□	MZE1430SA	31.2	58.6	58.6	113.6	111	2.6	14.3	1
14.3	3	●	MZE1430MA	45.5	91.6	91.6	153.6	151	2.6	14.3	1
14.4	2	□	MZE1440SA	31.4	58.6	58.6	113.6	111	2.6	14.4	1
14.4	3	●	MZE1440MA	45.8	91.6	91.6	153.6	151	2.6	14.4	1
14.5	2	●	MZE1450SA	31.6	58.6	58.6	113.6	111	2.6	14.5	1
14.5	3	●	MZE1450MA	46.1	91.6	91.6	153.6	151	2.6	14.5	1
14.6	2	□	MZE1460SA	31.9	58.7	58.7	113.7	111	2.7	14.6	1
14.6	3	●	MZE1460MA	46.5	93.7	93.7	155.7	153	2.7	14.6	1
14.7	2	□	MZE1470SA	32.1	58.7	58.7	113.7	111	2.7	14.7	1
14.7	3	●	MZE1470MA	46.8	93.7	93.7	155.7	153	2.7	14.7	1
14.8	2	□	MZE1480SA	32.3	58.7	58.7	113.7	111	2.7	14.8	1
14.8	3	●	MZE1480MA	47.1	93.7	93.7	155.7	153	2.7	14.8	1
14.9	2	□	MZE1490SA	32.5	58.7	58.7	113.7	111	2.7	14.9	1
14.9	3	●	MZE1490MA	47.4	93.7	93.7	155.7	153	2.7	14.9	1
15.0	2	●	MZE1500SA	32.7	58.7	58.7	113.7	111	2.7	15.0	1
15.0	3	●	MZE1500MA	47.7	93.7	93.7	155.7	153	2.7	15.0	1
15.1	2	□	MZE1510SA	32.9	60.7	60.7	117.7	115	2.7	15.1	1
15.1	3	●	MZE1510MA	48.0	96.7	96.7	159.7	157	2.7	15.1	1
15.2	2	●	MZE1520SA	33.2	60.8	60.8	117.8	115	2.8	15.2	1
15.2	3	●	MZE1520MA	48.4	96.8	96.8	159.8	157	2.8	15.2	1
15.3	2	□	MZE1530SA	33.4	60.8	60.8	117.8	115	2.8	15.3	1
15.3	3	●	MZE1530MA	48.7	96.8	96.8	159.8	157	2.8	15.3	1
15.4	2	□	MZE1540SA	33.6	60.8	60.8	117.8	115	2.8	15.4	1
15.4	3	●	MZE1540MA	49.0	96.8	96.8	159.8	157	2.8	15.4	1
15.5	2	●	MZE1550SA	33.8	60.8	60.8	117.8	115	2.8	15.5	1
15.5	3	●	MZE1550MA	49.3	96.8	96.8	159.8	157	2.8	15.5	1
15.6	2	□	MZE1560SA	34.0	60.8	60.8	117.8	115	2.8	15.6	1
15.6	3	●	MZE1560MA	49.6	98.8	98.8	162.8	160	2.8	15.6	1
15.7	2	□	MZE1570SA	34.3	60.9	60.9	117.9	115	2.9	15.7	1
15.7	3	●	MZE1570MA	50.0	98.9	98.9	162.9	160	2.9	15.7	1
15.8	2	□	MZE1580SA	34.5	60.9	60.9	117.9	115	2.9	15.8	1
15.8	3	●	MZE1580MA	50.3	98.9	98.9	162.9	160	2.9	15.8	1
15.9	2	□	MZE1590SA	34.7	60.9	60.9	117.9	115	2.9	15.9	1
15.9	3	●	MZE1590MA	50.6	98.9	98.9	162.9	160	2.9	15.9	1
16.0	2	●	MZE1600SA	34.9	60.9	60.9	117.9	115	2.9	16.0	1
16.0	3	●	MZE1600MA	50.9	98.9	98.9	162.9	160	2.9	16.0	1

DC (mm)	钻削孔深 (L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
16.1	2	□	MZE1610SA	35.1	62.9	62.9	121.9	119	2.9	16.1	1
16.1	3	□	MZE1610MA	51.2	104.9	104.9	169.9	167	2.9	16.1	1
16.2	2	●	MZE1620SA	35.3	62.9	62.9	121.9	119	2.9	16.2	1
16.2	3	□	MZE1620MA	51.5	104.9	104.9	169.9	167	2.9	16.2	1
16.3	2	●	MZE1630SA	35.6	63.0	63.0	122.0	119	3.0	16.3	1
16.3	3	□	MZE1630MA	51.9	105.0	105.0	170.0	167	3.0	16.3	1
16.4	2	□	MZE1640SA	35.8	63.0	63.0	122.0	119	3.0	16.4	1
16.4	3	□	MZE1640MA	52.2	105.0	105.0	170.0	167	3.0	16.4	1
16.5	2	●	MZE1650SA	36.0	63.0	63.0	122.0	119	3.0	16.5	1
16.5	3	●	MZE1650MA	52.5	105.0	105.0	170.0	167	3.0	16.5	1
16.6	2	□	MZE1660SA	36.2	63.0	63.0	122.0	119	3.0	16.6	1
16.6	3	□	MZE1660MA	52.8	105.0	105.0	170.0	167	3.0	16.6	1
16.7	2	□	MZE1670SA	36.4	63.0	63.0	122.0	119	3.0	16.7	1
16.7	3	□	MZE1670MA	53.1	105.0	105.0	170.0	167	3.0	16.7	1
16.8	2	□	MZE1680SA	36.7	63.1	63.1	122.1	119	3.1	16.8	1
16.8	3	□	MZE1680MA	53.5	105.1	105.1	170.1	167	3.1	16.8	1
16.9	2	□	MZE1690SA	36.9	63.1	63.1	122.1	119	3.1	16.9	1
16.9	3	□	MZE1690MA	53.8	105.1	105.1	170.1	167	3.1	16.9	1
17.0	2	●	MZE1700SA	37.1	63.1	63.1	122.1	119	3.1	17.0	1
17.0	3	●	MZE1700MA	54.1	105.1	105.1	170.1	167	3.1	17.0	1
17.1	2	□	MZE1710SA	37.3	65.1	65.1	126.1	123	3.1	17.1	1
17.1	3	□	MZE1710MA	54.4	105.1	105.1	170.1	167	3.1	17.1	1
17.2	2	□	MZE1720SA	37.5	65.1	65.1	126.1	123	3.1	17.2	1
17.2	3	□	MZE1720MA	54.7	105.1	105.1	170.1	167	3.1	17.2	1
17.3	2	□	MZE1730SA	37.7	65.1	65.1	126.1	123	3.1	17.3	1
17.3	3	□	MZE1730MA	55.0	105.1	105.1	170.1	167	3.1	17.3	1
17.4	2	□	MZE1740SA	38.0	65.2	65.2	126.2	123	3.2	17.4	1
17.4	3	□	MZE1740MA	55.4	105.2	105.2	170.2	167	3.2	17.4	1
17.5	2	●	MZE1750SA	38.2	65.2	65.2	126.2	123	3.2	17.5	1
17.5	3	●	MZE1750MA	55.7	105.2	105.2	170.2	167	3.2	17.5	1
17.6	2	□	MZE1760SA	38.4	65.2	65.2	126.2	123	3.2	17.6	1
17.6	3	□	MZE1760MA	56.0	105.2	105.2	170.2	167	3.2	17.6	1
17.7	2	□	MZE1770SA	38.6	65.2	65.2	126.2	123	3.2	17.7	1
17.7	3	□	MZE1770MA	56.3	105.2	105.2	170.2	167	3.2	17.7	1
17.8	2	●	MZE1780SA	38.8	65.2	65.2	126.2	123	3.2	17.8	1
17.8	3	□	MZE1780MA	56.6	105.2	105.2	170.2	167	3.2	17.8	1
17.9	2	□	MZE1790SA	39.1	65.3	65.3	126.3	123	3.3	17.9	1
17.9	3	□	MZE1790MA	57.0	105.3	105.3	170.3	167	3.3	17.9	1
18.0	2	●	MZE1800SA	39.3	65.3	65.3	126.3	123	3.3	18.0	1
18.0	3	●	MZE1800MA	57.3	105.3	105.3	170.3	167	3.3	18.0	1
18.1	2	□	MZE1810SA	39.5	67.3	67.3	130.3	127	3.3	18.1	1
18.1	3	□	MZE1810MA	57.6	117.3	117.3	182.3	179	3.3	18.1	1
18.2	2	□	MZE1820SA	39.7	67.3	67.3	130.3	127	3.3	18.2	1
18.2	3	□	MZE1820MA	57.9	117.3	117.3	182.3	179	3.3	18.2	1
18.3	2	□	MZE1830SA	39.9	67.3	67.3	130.3	127	3.3	18.3	1
18.3	3	□	MZE1830MA	58.2	117.3	117.3	182.3	179	3.3	18.3	1
18.4	2	□	MZE1840SA	40.1	67.3	67.3	130.3	127	3.3	18.4	1
18.4	3	□	MZE1840MA	58.5	117.3	117.3	182.3	179	3.3	18.4	1

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钻头

MZE

ZET1钻头

硬质合金

DC	钻削孔深 (mm)(L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
18.5	2	●	MZE1850SA	40.4	67.4	67.4	130.4	127	3.4	18.5	1
18.5	3	●	MZE1850MA	58.9	117.4	117.4	182.4	179	3.4	18.5	1
18.6	2	□	MZE1860SA	40.6	67.4	67.4	130.4	127	3.4	18.6	1
18.6	3	□	MZE1860MA	59.2	117.4	117.4	182.4	179	3.4	18.6	1
18.7	2	□	MZE1870SA	40.8	67.4	67.4	130.4	127	3.4	18.7	1
18.7	3	□	MZE1870MA	59.5	117.4	117.4	182.4	179	3.4	18.7	1
18.8	2	□	MZE1880SA	41.0	67.4	67.4	130.4	127	3.4	18.8	1
18.8	3	□	MZE1880MA	59.8	117.4	117.4	182.4	179	3.4	18.8	1
18.9	2	□	MZE1890SA	41.2	67.4	67.4	130.4	127	3.4	18.9	1
18.9	3	□	MZE1890MA	60.1	117.4	117.4	182.4	179	3.4	18.9	1
19.0	2	●	MZE1900SA	41.5	67.5	67.5	130.5	127	3.5	19.0	1
19.0	3	●	MZE1900MA	60.5	117.5	117.5	182.5	179	3.5	19.0	1
19.1	2	□	MZE1910SA	41.7	69.5	69.5	134.5	131	3.5	19.1	1
19.1	3	□	MZE1910MA	60.8	117.5	117.5	182.5	179	3.5	19.1	1
19.2	2	□	MZE1920SA	41.9	69.5	69.5	134.5	131	3.5	19.2	1
19.2	3	□	MZE1920MA	61.1	117.5	117.5	182.5	179	3.5	19.2	1

DC	钻削孔深 (mm)(L/D)	VP15TF	型号	尺寸 (mm)							图
				LU	LCF	LH	OAL	LF	PL	DCON	
19.3	2	□	MZE1930SA	42.1	69.5	69.5	134.5	131	3.5	19.3	1
19.3	3	□	MZE1930MA	61.4	117.5	117.5	182.5	179	3.5	19.3	1
19.4	2	□	MZE1940SA	42.3	69.5	69.5	134.5	131	3.5	19.4	1
19.4	3	□	MZE1940MA	61.7	117.5	117.5	182.5	179	3.5	19.4	1
19.5	2	●	MZE1950SA	42.5	69.5	69.5	134.5	131	3.5	19.5	1
19.5	3	●	MZE1950MA	62.0	117.5	117.5	182.5	179	3.5	19.5	1
19.6	2	□	MZE1960SA	42.8	69.6	69.6	134.6	131	3.6	19.6	1
19.6	3	□	MZE1960MA	62.4	117.6	117.6	182.6	179	3.6	19.6	1
19.7	2	□	MZE1970SA	43.0	69.6	69.6	134.6	131	3.6	19.7	1
19.7	3	□	MZE1970MA	62.7	117.6	117.6	182.6	179	3.6	19.7	1
19.8	2	□	MZE1980SA	43.2	69.6	69.6	134.6	131	3.6	19.8	1
19.8	3	□	MZE1980MA	63.0	117.6	117.6	182.6	179	3.6	19.8	1
19.9	2	□	MZE1990SA	43.4	69.6	69.6	134.6	131	3.6	19.9	1
19.9	3	□	MZE1990MA	63.3	117.6	117.6	182.6	179	3.6	19.9	1
20.0	2	●	MZE2000SA	43.6	69.6	69.6	134.6	131	3.6	20.0	1
20.0	3	●	MZE2000MA	63.6	117.6	117.6	182.6	179	3.6	20.0	1

注1) 规格品以外的特殊形状(例如不同直径、长度和带倒角刃等)、材料等有什么需求也可商谈。

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钻头

●：标准库存品 □：预订生产品

推荐切削条件

工件材料	软钢 (≤HB180)		碳钢、合金钢 (HB180—280)		碳钢、合金钢 (HB280—350)	
	SS400、S10C等		S45C、SCM440等		SNCM439等	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)
1.0	12700	0.035 (0.020—0.050)	11100	0.035 (0.020—0.050)	9500	0.035 (0.020—0.050)
1.2	10600	0.045 (0.030—0.060)	9200	0.045 (0.030—0.060)	7900	0.045 (0.030—0.060)
1.6	8900	0.055 (0.035—0.080)	7900	0.055 (0.035—0.080)	6900	0.055 (0.035—0.080)
2.0	7100	0.07 (0.040—0.100)	6300	0.07 (0.040—0.100)	5500	0.07 (0.040—0.100)
2.5	5700	0.085 (0.050—0.125)	5000	0.085 (0.050—0.125)	4400	0.085 (0.050—0.125)
3.2	4400	0.1 (0.060—0.13)	3900	0.1 (0.06—0.13)	3400	0.09 (0.06—0.12)
4.0	3500	0.12 (0.080—0.16)	3100	0.12 (0.08—0.16)	2700	0.11 (0.07—0.14)
5.0	2800	0.15 (0.100—0.20)	2500	0.15 (0.10—0.20)	2200	0.14 (0.09—0.18)
6.3	2700	0.2 (0.13—0.26)	2500	0.2 (0.13—0.26)	2200	0.18 (0.11—0.24)
8.0	2100	0.23 (0.18—0.28)	1900	0.23 (0.18—0.28)	1700	0.21 (0.16—0.25)
10.0	1700	0.27 (0.22—0.32)	1500	0.27 (0.22—0.32)	1400	0.23 (0.19—0.27)
12.0	1700	0.31 (0.28—0.34)	1500	0.31 (0.28—0.34)	1400	0.26 (0.23—0.29)
16.0	1300	0.33 (0.28—0.38)	1200	0.33 (0.28—0.38)	1100	0.29 (0.24—0.33)
20.0	1100	0.35 (0.30—0.40)	1000	0.35 (0.30—0.40)	900	0.3 (0.26—0.34)

工件材料	奥氏体类不锈钢 (≤HB200)		灰铸铁 (≤350MPa)		球墨铸铁 (≤450MPa)	
	SUS304、SUS316等		FC300等		FCD450等	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)
1.0	4700	0.03 (0.020—0.044)	14300	0.035 (0.020—0.050)	12700	0.035 (0.020—0.050)
1.2	3900	0.04 (0.030—0.053)	11900	0.045 (0.030—0.060)	10600	0.045 (0.030—0.060)
1.6	3900	0.05 (0.035—0.070)	9900	0.055 (0.035—0.080)	8900	0.055 (0.035—0.080)
2.0	3100	0.06 (0.040—0.080)	7900	0.07 (0.040—0.100)	7100	0.07 (0.040—0.100)
2.5	2500	0.075 (0.050—0.100)	6300	0.085 (0.050—0.125)	5700	0.085 (0.050—0.125)
3.2	1900	0.07 (0.05—0.08)	4900	0.1 (0.06—0.13)	4400	0.1 (0.06—0.13)
4.0	1500	0.08 (0.06—0.10)	3900	0.12 (0.08—0.16)	3500	0.12 (0.08—0.16)
5.0	1200	0.1 (0.07—0.13)	3100	0.15 (0.10—0.20)	2800	0.15 (0.10—0.20)
6.3	1200	0.13 (0.09—0.17)	3000	0.2 (0.13—0.26)	2700	0.2 (0.13—0.26)
8.0	900	0.14 (0.10—0.18)	2300	0.25 (0.18—0.31)	2100	0.23 (0.18—0.28)
10.0	700	0.16 (0.12—0.19)	1900	0.29 (0.22—0.35)	1700	0.27 (0.22—0.32)
12.0	600	0.18 (0.15—0.20)	1800	0.33 (0.28—0.37)	1700	0.31 (0.28—0.34)
16.0	400	0.19 (0.15—0.23)	1300	0.35 (0.28—0.42)	1300	0.33 (0.28—0.38)
20.0	300	0.2 (0.15—0.24)	1100	0.37 (0.30—0.44)	1100	0.35 (0.30—0.40)

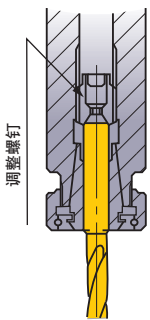
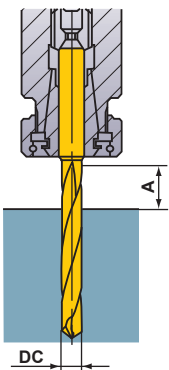
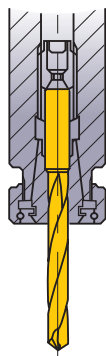
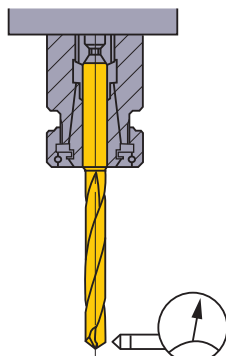
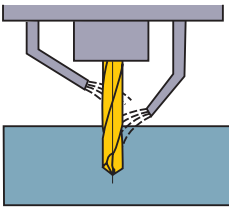
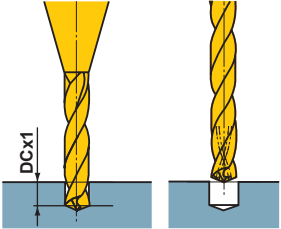
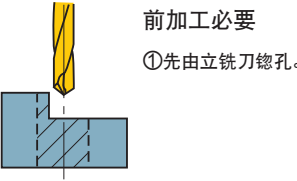
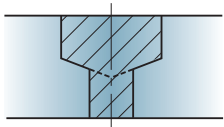
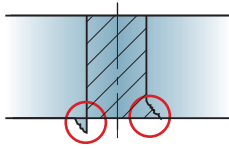
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钻头

推荐切削条件

工件材料	铝合金 (Si<5%)			耐热合金			高硬度钢 (HRC40—55)		
	A6061、A7075等			Inconel718等			SKD61、SKT4等		
直径 DC (mm)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)		转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	
1.0	15900	0.05	(0.030—0.075)	3100	0.02	(0.016—0.027)	3100	0.02	(0.016—0.031)
1.2	13200	0.065	(0.045—0.090)	2600	0.025	(0.022—0.032)	2600	0.03	(0.022—0.037)
1.6	11900	0.085	(0.053—0.120)	1900	0.03	(0.025—0.040)	1900	0.03	(0.025—0.040)
2.0	9500	0.105	(0.060—0.150)	2300	0.04	(0.032—0.050)	2300	0.04	(0.032—0.050)
2.5	8900	0.135	(0.075—0.200)	1900	0.05	(0.040—0.060)	1900	0.05	(0.040—0.060)
3.2	7900	0.1	(0.06—0.13)	1900	0.07	(0.05—0.09)	1900	0.07	(0.05—0.09)
4.0	6300	0.12	(0.08—0.16)	1500	0.09	(0.06—0.11)	1500	0.09	(0.06—0.11)
5.0	5000	0.15	(0.10—0.20)	1200	0.11	(0.08—0.14)	1200	0.11	(0.08—0.14)
6.3	4500	0.2	(0.13—0.26)	1200	0.14	(0.09—0.19)	1200	0.14	(0.09—0.19)
8.0	3500	0.23	(0.18—0.28)	900	0.14	(0.11—0.17)	900	0.14	(0.11—0.17)
10.0	2800	0.27	(0.22—0.32)	700	0.16	(0.12—0.19)	700	0.16	(0.12—0.19)
12.0	2600	0.31	(0.28—0.34)	600	0.16	(0.13—0.18)	600	0.16	(0.13—0.18)
16.0	2100	0.33	(0.28—0.38)	400	0.18	(0.14—0.21)	500	0.18	(0.14—0.21)
20.0	1700	0.35	(0.30—0.40)	400	0.19	(0.15—0.22)	400	0.19	(0.15—0.22)

高级使用方法

钻头装夹  使用推力轴承型的弹簧夹头可确保夹紧。	确定装夹钻头长度的方法  图中的A尺寸要确保$DC \times 1.5$以上。	安装注意事项  不能把钻头的沟槽部位夹住。	安装时的振摆  振摆应在0.03mm以内。
适宜的供液方法(MZE)  如图所示：钻头顶部和中部是期望的供液部位。	小直径钻头的使用方法  ①用MZE-SA型钻头或市场上购置的中心钻，钻削出深度为$DC \times 1$ (DC为钻头直径)的底孔。 ②用底孔作导向，使用带冷却孔钻头进行加工时，根据加工情况推荐采用步进进给加工或微进给加工。		
薄板钻削  增加支承 OK  发生挠曲 NG	断续钻削  可以加工 OK ①断续面处应降低进给量。  前加工必要 ①先由立铣刀铤孔。	阶梯孔钻削  ①可分两个工序钻削。 ②先钻削大直径部分。 ※本公司也制造带铤孔或倒角刃的复合钻头。	将钻通时出现毛刺、塌陷  ①将钻通时应降低进给量。 ②钻头肩部处理成倒角。 ③改变钻头顶角。

钻孔 [整体硬质合金钻头]

MGS

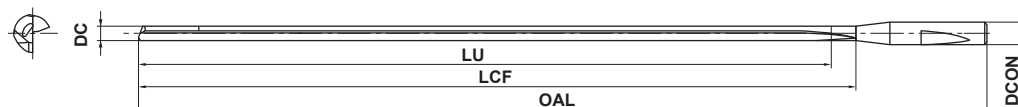
整体枪钻

- 可进行小径深孔加工
- 高振摆精度，可实现高精度孔加工



P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属		

内冷却



DC ≤ 3
0
-0.005

注1) MGS型全部产品均可用于热缩式刀柄。

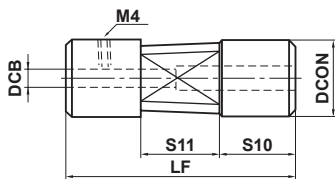
DC (mm)	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)			
				LU	LCF	OAL	DCON
0.7	50	●	MGS0070L040B	35.0	40	80	3
0.7	80	●	MGS0070L060B	56.0	60	100	3
0.8	45	●	MGS0080L040B	36.0	40	80	3
0.8	70	●	MGS0080L060B	56.0	60	100	3
0.9	40	●	MGS0090L040B	36.0	40	80	3
0.9	60	●	MGS0090L060B	54.0	60	100	3
1.0	35	●	MGS0100L040B	35.0	40	80	3
1.0	55	●	MGS0100L060B	55.0	60	100	3
1.0	75	●	MGS0100L080B	75.0	80	120	3
1.1	30	●	MGS0110L040B	33.0	40	80	3
1.1	50	●	MGS0110L060B	55.0	60	100	3
1.1	65	●	MGS0110L080B	71.5	80	120	3
1.2	30	●	MGS0120L040B	36.0	40	80	3
1.2	45	●	MGS0120L060B	54.0	60	100	3
1.2	60	●	MGS0120L080B	72.0	80	120	3
1.3	40	●	MGS0130L060B	52.0	60	100	3
1.3	55	●	MGS0130L080B	71.5	80	120	3
1.3	70	●	MGS0130L100B	91.0	100	140	3
1.4	35	●	MGS0140L060B	49.0	60	100	3
1.4	50	●	MGS0140L080B	70.0	80	120	3
1.4	65	●	MGS0140L100B	91.0	100	140	3
1.5	35	●	MGS0150L060B	52.5	60	100	3
1.5	50	●	MGS0150L080B	75.0	80	120	3
1.5	60	●	MGS0150L100B	90.0	100	140	3
1.6	30	●	MGS0160L060B	48.0	60	100	3
1.6	45	●	MGS0160L080B	72.0	80	120	3
1.6	55	●	MGS0160L100B	88.0	100	140	3
1.7	30	●	MGS0170L060B	51.0	60	100	3
1.7	40	●	MGS0170L080B	68.0	80	120	3
1.7	55	●	MGS0170L100B	93.5	100	140	3

DC (mm)	钻削孔深 (L/D)	HTi10	型号	尺寸 (mm)			
				LU	LCF	OAL	DCON
1.8	30	●	MGS0180L060B	54.0	60	100	3
1.8	40	●	MGS0180L080B	72.0	80	120	3
1.8	50	●	MGS0180L100B	90.0	100	140	3
1.9	25	●	MGS0190L060B	47.5	60	100	3
1.9	35	●	MGS0190L080B	66.5	80	120	3
1.9	45	●	MGS0190L100B	85.5	100	140	3
2.0	25	●	MGS0200L060B	50.0	60	100	3
2.0	35	●	MGS0200L080B	70.0	80	120	3
2.0	45	●	MGS0200L100B	90.0	100	140	3
2.1	35	●	MGS0210L080B	73.5	80	120	3
2.1	40	●	MGS0210L100B	84.0	100	140	3
2.2	30	●	MGS0220L080B	66.0	80	120	3
2.2	40	●	MGS0220L100B	88.0	100	140	3
2.3	30	●	MGS0230L080B	69.0	80	120	3
2.3	40	●	MGS0230L100B	92.0	100	140	3
2.4	30	●	MGS0240L080B	72.0	80	120	3
2.4	35	●	MGS0240L100B	84.0	100	140	3
2.5	25	●	MGS0250L080B	62.5	80	120	3
2.5	35	●	MGS0250L100B	87.5	100	140	3
2.6	25	●	MGS0260L080B	65.0	80	120	3
2.6	35	●	MGS0260L100B	91.0	100	140	3
2.7	25	●	MGS0270L080B	67.5	80	120	3
2.7	30	●	MGS0270L100B	81.0	100	140	3
2.8	25	●	MGS0280L080B	70.0	80	120	3
2.8	30	●	MGS0280L100B	84.0	100	140	3
2.9	20	●	MGS0290L080B	58.0	80	120	3
2.9	30	●	MGS0290L100B	87.0	100	140	3
3.0	20	●	MGS0300L080B	60.0	80	120	3
3.0	30	●	MGS0300L100B	90.0	100	140	3

注1) 涂层产品(VP、GP、UP)方面有什么要求也可商谈。

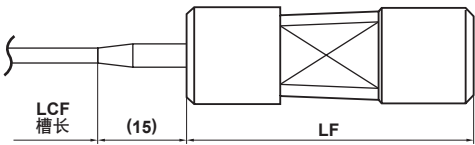
●：标准库存品

■ 专用刀柄



型号	库存	尺寸 (mm)						
		DCON	DCB	LF	S10	S11		
MGD38	●	12.7	3.0	38.1	12.6	12.7	HSS04004	HKY20F
MGD70	●	12.7	3.0	70.0	25.0	20.0	HSS04004	HKY20F

■ 在专用刀柄上安装时的悬伸量



推荐切削条件

工件材料	软钢 (≤HB180)				碳钢、合金钢 (HB180—280)			
	SS400、S10C等				S45C、SCM440等			
推荐冷却液	非水溶性				非水溶性			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
0.8	50	19800	0.01 (0.005—0.016)	195	40	15900	0.01 (0.005—0.016)	155
1.0	50	15900	0.01 (0.007—0.020)	155	40	12700	0.01 (0.007—0.020)	125
1.2	60	15900	0.015 (0.008—0.024)	235	50	13200	0.015 (0.008—0.024)	195
1.6	60	11900	0.02 (0.011—0.032)	235	50	9900	0.02 (0.011—0.032)	195
2.0	60	9500	0.025 (0.013—0.040)	235	50	7900	0.025 (0.013—0.040)	195
2.5	70	8900	0.03 (0.017—0.050)	265	60	7600	0.03 (0.017—0.050)	225
3.0	70	7400	0.04 (0.020—0.060)	295	60	6300	0.04 (0.020—0.060)	250

工件材料	碳钢、合金钢 (HB280—350)				奥氏体类不锈钢 (≤HB200)			
	SNCM439等				SUS304、SUS316等			
推荐冷却液	非水溶性				非水溶性			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
0.8	30	11900	0.005 (0.004—0.005)	55	30	11900	0.01 (0.005—0.016)	115
1.0	30	9500	0.005 (0.005—0.007)	45	30	9500	0.01 (0.007—0.020)	95
1.2	40	10600	0.005 (0.006—0.008)	50	30	7900	0.015 (0.008—0.024)	115
1.6	40	7900	0.01 (0.008—0.011)	75	40	7900	0.02 (0.011—0.032)	155
2.0	40	6300	0.01 (0.010—0.013)	60	40	6300	0.025 (0.013—0.040)	155
2.5	50	6300	0.015 (0.013—0.017)	90	40	5000	0.03 (0.017—0.050)	150
3.0	50	5300	0.015 (0.015—0.020)	75	40	4200	0.04 (0.020—0.060)	165

工件材料	灰铸铁 (≤350MPa)				球墨铸铁 (≤450MPa)			
	FC300等				FCD450等			
推荐冷却液	非水溶性 水溶性				非水溶性 水溶性			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
0.8	50	19800	0.01 (0.008—0.016)	195	40	15900	0.005 (0.005—0.008)	75
1.0	50	15900	0.015 (0.010—0.020)	235	40	12700	0.005 (0.007—0.010)	60
1.2	60	15900	0.015 (0.012—0.024)	235	50	13200	0.01 (0.008—0.012)	130
1.6	60	11900	0.02 (0.016—0.032)	235	50	9900	0.01 (0.011—0.016)	95
2.0	60	9500	0.03 (0.020—0.040)	285	50	7900	0.015 (0.013—0.020)	115
2.5	70	8900	0.035 (0.025—0.050)	310	60	7600	0.02 (0.017—0.025)	150
3.0	70	7400	0.045 (0.030—0.060)	330	60	6300	0.025 (0.020—0.030)	155

工件材料	铝合金 (Si<5%)				铜、铜合金			
	A6061、A7075等							
推荐冷却液	非水溶性 水溶性				非水溶性 水溶性			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (Min.—Max.) (mm/rev)	进给速度 (mm/min)
0.8	50	19800	0.01 (0.008—0.016)	195	40	15900	0.01 (0.008—0.016)	155
1.0	60	19000	0.015 (0.010—0.020)	285	50	15900	0.015 (0.010—0.020)	235
1.2	70	18500	0.015 (0.012—0.024)	275	60	15900	0.015 (0.012—0.024)	235
1.6	80	15900	0.02 (0.016—0.032)	315	70	13900	0.02 (0.016—0.032)	275
2.0	90	14300	0.03 (0.020—0.040)	425	80	12700	0.03 (0.020—0.040)	380
2.5	100	12700	0.035 (0.025—0.050)	440	90	11400	0.035 (0.025—0.050)	395
3.0	100	10600	0.045 (0.030—0.060)	475	100	10600	0.045 (0.030—0.060)	475

注1) 需要导套或导孔。

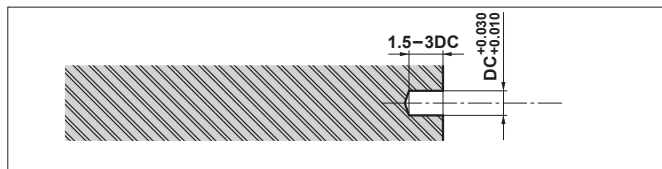
注2) 冷却润滑油装置必须装上过滤网。为防止油孔堵塞,切削液装置上应使用精密过滤网(网眼直径≤5μm)。

注3) 需要切削液输出压力为10Mpa以上。(压力低时有可能发生切屑堵塞)

使用注意事项

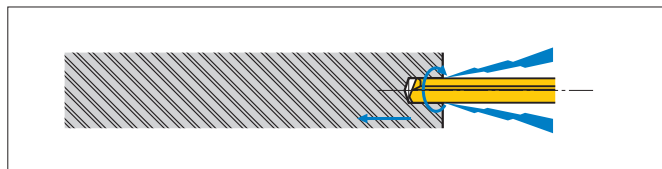
- 需要导套或导孔。
- 冷却润滑液装置必须装上过滤网。
为防止油孔堵塞,切削液装置上应使用精密过滤网(网眼直径 $\leq 5\mu\text{m}$)。
- 需要切削液输出压力为10Mpa以上。
(压力低时有可能发生切屑堵塞。)

在通用机床(加工中心、自动车床等)上的使用方法



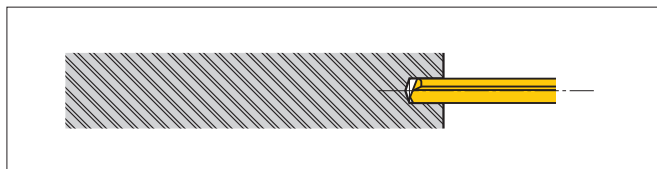
1. 导孔加工

- 对于MGS钻头直径, 导孔直径为从+0.01~+0.03mm。
- 需要导孔直径的1.5~3倍的孔深。
- 导孔加工最适合使用MVE / MVS钻头。



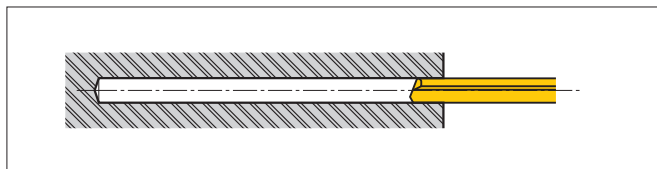
3. 在MGS钻头停止旋转的状态下插进导孔内。

- 在插入导孔之前, 如果使切削旋转将会导致工具折损、非常危险。



2. 在MGS枪钻不转动的状态、或者在300rpm以下反转的状态下插入导孔。

- 插入至距孔底1~2mm位置。



4. 加工结束后,

- 迅速退至插进导孔的位置。
- 停止供给切削液、旋转后, 从导孔中退出, 返回到原位置。

钻孔 [整体硬质合金钻头]

VCSSS

MIRACLE涂层钻头(3mm刀柄系列)



DC≤0.6 DC≥0.7

P

M

K

N

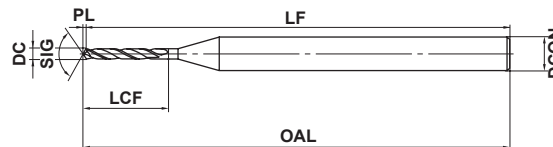
S

H

钢

高硬度钢

外冷却



DC≤2.4

0
-0.014

DCON=3

0
-0.010

●最适宜钻削高硬度材料的小孔。

DC (mm)	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
0.3	VCSSSD0030	3.1	38.1	38	0.07	3	▲
0.4	VCSSSD0040	4.1	38.1	38	0.09	3	▲
0.5	VCSSSD0050	4.1	38.1	38	0.12	3	▲
0.6	VCSSSD0060	5.1	38.1	38	0.14	3	▲
0.7	VCSSSD0070	5.2	38.2	38	0.20	3	▲
0.8	VCSSSD0080	6.2	38.2	38	0.23	3	▲
0.9	VCSSSD0090	6.3	38.3	38	0.26	3	▲
1.0	VCSSSD0100	8.3	38.3	38	0.3	3	▲
1.1	VCSSSD0110	8.3	38.3	38	0.3	3	▲
1.2	VCSSSD0120	8.4	38.4	38	0.4	3	▲
1.3	VCSSSD0130	8.4	38.4	38	0.4	3	▲

DC (mm)	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
1.4	VCSSSD0140	8.4	38.4	38	0.4	3	▲
1.5	VCSSSD0150	10.4	45.4	45	0.4	3	▲
1.6	VCSSSD0160	10.5	45.5	45	0.5	3	▲
1.7	VCSSSD0170	10.5	45.5	45	0.5	3	▲
1.8	VCSSSD0180	10.5	45.5	45	0.5	3	▲
1.9	VCSSSD0190	10.6	45.6	45	0.6	3	▲
2.0	VCSSSD0200	12.6	45.6	45	0.6	3	▲
2.1	VCSSSD0210	12.6	45.6	45	0.6	3	▲
2.2	VCSSSD0220	12.6	45.6	45	0.6	3	▲
2.3	VCSSSD0230	12.7	45.7	45	0.7	3	▲
2.4	VCSSSD0240	12.7	45.7	45	0.7	3	▲

推荐切削条件

工件材料	调质钢 SKD61、SCM440等 (HRC40—50)			淬火钢 SKD61、SUS420等 (HRC50—55)			淬火钢 SKD11、粉末高速钢等 (HRC55—60)			
	直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	步进进给量 (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	步进进给量 (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	步进进给量 (mm)
P 钻头	0.3	21000	0.005	0.03	16000	0.005	0.03	11000	0.005	0.03
	0.5	13000	0.005	0.05	9600	0.005	0.05	6400	0.005	0.05
	0.8	8000	0.008	0.08	6000	0.008	0.08	4000	0.008	0.08
	1.0	6400	0.01	0.10	4800	0.01	0.10	3200	0.01	0.10
	1.2	5300	0.01	0.15	4000	0.01	0.15	2700	0.01	0.10
	1.5	4200	0.02	0.20	3200	0.01	0.20	2100	0.01	0.20
	1.8	3500	0.03	0.25	2700	0.01	0.25	1800	0.01	0.20
	2.0	3200	0.04	0.30	2400	0.02	0.30	1600	0.02	0.30
	2.2	2900	0.04	0.40	2200	0.02	0.40	1400	0.02	0.30
	2.4	2700	0.05	0.50	2000	0.02	0.50	1300	0.02	0.30

注1) 请使用主轴旋转精度良好的机床。

注2) 固定刀柄时,推荐使用弹簧筒夹方式。

注3) 请使用乳化切削液。

▲: 预定在2020年3月底结束订货的产品



DC<6 DC≥6

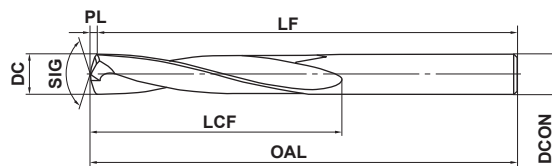
P	M	K	N	S	H
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高硬度钢

外冷却



DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 16
0 -0.014	0 -0.018	0 -0.022	0 -0.027
DCON ≤ 3	3 < DCON ≤ 6	6 < DCON ≤ 10	10 < DCON ≤ 16
0 -0.010	0 -0.012	0 -0.015	0 -0.018



- 钻头形状结构适宜于钻削高硬度材料。可钻削HRC60的高硬度材料和对淬硬模具(追加钻孔)进行修正。

DC	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
2.5	VCHSMD0250	20.6	55.6	55	0.6	2.5	▲
2.6	VCHSMD0260	20.6	55.6	55	0.6	2.6	▲
2.7	VCHSMD0270	20.6	55.6	55	0.6	2.7	▲
2.8	VCHSMD0280	21.7	60.7	60	0.7	2.8	▲
2.9	VCHSMD0290	21.7	60.7	60	0.7	2.9	▲
3.0	VCHSMD0300	21.7	60.7	60	0.7	3.0	▲
3.1	VCHSMD0310	24.7	60.7	60	0.7	3.1	▲
3.2	VCHSMD0320	24.7	60.7	60	0.7	3.2	▲
3.3	VCHSMD0330	24.8	60.8	60	0.8	3.3	▲
3.4	VCHSMD0340	24.8	60.8	60	0.8	3.4	▲
3.5	VCHSMD0350	24.8	60.8	60	0.8	3.5	▲
3.6	VCHSMD0360	27.8	60.8	60	0.8	3.6	▲
3.7	VCHSMD0370	27.9	60.9	60	0.9	3.7	▲
3.8	VCHSMD0380	27.9	60.9	60	0.9	3.8	▲
3.9	VCHSMD0390	27.9	60.9	60	0.9	3.9	▲
4.0	VCHSMD0400	27.9	60.9	60	0.9	4.0	▲
4.1	VCHSMD0410	30.0	64.0	63	1.0	4.1	▲
4.2	VCHSMD0420	30.0	64.0	63	1.0	4.2	▲
4.3	VCHSMD0430	30.0	64.0	63	1.0	4.3	▲
4.4	VCHSMD0440	30.0	64.0	63	1.0	4.4	▲
4.5	VCHSMD0450	30.0	64.0	63	1.0	4.5	▲
4.6	VCHSMD0460	33.1	69.1	68	1.1	4.6	▲
4.7	VCHSMD0470	33.1	69.1	68	1.1	4.7	▲
4.8	VCHSMD0480	33.1	69.1	68	1.1	4.8	▲
4.9	VCHSMD0490	33.1	69.1	68	1.1	4.9	▲
5.0	VCHSMD0500	33.2	69.2	68	1.2	5.0	▲
5.1	VCHSMD0510	35.2	73.2	72	1.2	5.1	▲
5.2	VCHSMD0520	35.2	73.2	72	1.2	5.2	▲
5.3	VCHSMD0530	35.2	73.2	72	1.2	5.3	▲
5.4	VCHSMD0540	35.3	73.3	72	1.3	5.4	▲
5.5	VCHSMD0550	35.3	73.3	72	1.3	5.5	▲
5.6	VCHSMD0560	37.3	75.3	74	1.3	5.6	▲
5.7	VCHSMD0570	37.3	75.3	74	1.3	5.7	▲
5.8	VCHSMD0580	37.4	75.4	74	1.4	5.8	▲
5.9	VCHSMD0590	37.4	75.4	74	1.4	5.9	▲
6.0	VCHSMD0600	42.2	82.2	81	1.2	6.0	▲
6.5	VCHSMD0650	42.3	82.3	81	1.3	6.5	▲
6.9	VCHSMD0690	44.4	84.4	83	1.4	6.9	▲
7.0	VCHSMD0700	44.4	84.4	83	1.4	7.0	▲
7.5	VCHSMD0750	46.5	88.5	87	1.5	7.5	▲

DC	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
8.0	VCHSMD0800	49.6	91.6	90	1.6	8.0	▲
8.5	VCHSMD0850	54.7	97.7	96	1.7	8.5	▲
8.6	VCHSMD0860	56.7	99.7	98	1.7	8.6	▲
9.0	VCHSMD0900	56.8	99.8	98	1.8	9.0	▲
9.5	VCHSMD0950	59.9	103.9	102	1.9	9.5	▲
10.0	VCHSMD1000	62.0	107.0	105	2.0	10.0	▲
10.4	VCHSMD1040	68.1	114.1	112	2.1	10.4	▲
10.5	VCHSMD1050	68.1	114.1	112	2.1	10.5	▲
11.0	VCHSMD1100	70.2	116.2	114	2.2	11.0	▲
11.5	VCHSMD1150	73.3	120.3	118	2.3	11.5	▲
12.0	VCHSMD1200	75.4	123.4	121	2.4	12.0	▲
12.5	VCHSMD1250	78.5	137.5	135	2.5	12.5	▲
13.0	VCHSMD1300	80.6	139.6	137	2.6	13.0	▲
13.5	VCHSMD1350	86.7	146.7	144	2.7	13.5	▲
14.0	VCHSMD1400	88.8	149.8	147	2.8	14.0	▲
14.5	VCHSMD1450	91.9	153.9	151	2.9	14.5	▲
15.0	VCHSMD1500	94.0	156.0	153	3.0	15.0	▲
15.5	VCHSMD1550	97.2	160.2	157	3.2	15.5	▲
16.0	VCHSMD1600	99.3	163.3	160	3.3	16.0	▲

推荐切削条件

工件材料	淬火钢 SKD61、SUS420等 (HRC50—55)		淬火钢 SKD11、粉末高速钢等 (HRC55—60)	
	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
直径 DC (mm)				
2.5	1900	0.06	1300	0.04
3.0	1600	0.06	1100	0.04
4.0	1200	0.06	800	0.04
5.0	1000	0.06	600	0.04
6.0	800	0.06	530	0.04
8.0	600	0.07	400	0.05
10.0	480	0.07	320	0.05
12.0	400	0.07	270	0.05
14.0	340	0.07	230	0.05
16.0	300	0.07	200	0.05

- 注1) 请使用刚性好的机床。
 注2) 固定刀柄时, 推荐使用弹簧筒夹方式。
 注3) 请使用乳化切削液。
 注4) 本表切削条件适用于钻削孔深DC×3。

钻孔 [整体硬质合金钻头]

DCSSS

用于钻削非铁材料钻头(S)

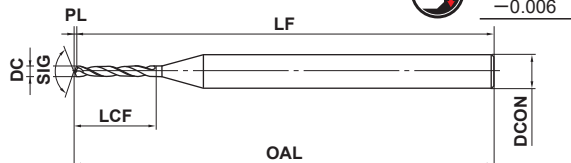


DC<1.5 DC≥1.5 DC≥1.5

P M K **N** S H

有色金属

外冷却



0.2≤DC≤2

0

-0.014

DCON=3

0

-0.006

- 凭借本公司独特的CVD金刚石涂层技术, 涂层与基体结合力强, 不易发生涂层剥离, 刀具崩刃, 可实现稳定钻削。

DC (mm)	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
0.2	DCSSSD0020	2.1	38.1	38	0.05	3	●
0.3	DCSSSD0030	3.1	38.1	38	0.07	3	●
0.4	DCSSSD0040	4.1	38.1	38	0.09	3	●
0.5	DCSSSD0050	4.1	38.1	38	0.12	3	●
0.6	DCSSSD0060	5.1	38.1	38	0.14	3	●
0.7	DCSSSD0070	5.2	38.2	38	0.16	3	●
0.8	DCSSSD0080	6.2	38.2	38	0.19	3	●
0.9	DCSSSD0090	6.2	38.2	38	0.21	3	●
1.0	DCSSSD0100	8.2	38.2	38	0.2	3	●
1.1	DCSSSD0110	8.3	38.3	38	0.3	3	●

DC (mm)	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
1.2	DCSSSD0120	8.3	38.3	38	0.3	3	●
1.3	DCSSSD0130	8.3	38.3	38	0.3	3	●
1.4	DCSSSD0140	8.3	38.3	38	0.3	3	●
1.5	DCSSSD0150	10.3	45.3	45	0.3	3	●
1.6	DCSSSD0160	10.3	45.3	45	0.3	3	●
1.7	DCSSSD0170	10.4	45.4	45	0.4	3	●
1.8	DCSSSD0180	10.4	45.4	45	0.4	3	●
1.9	DCSSSD0190	10.4	45.4	45	0.4	3	●
2.0	DCSSSD0200	12.4	45.4	45	0.4	3	●

DCSSM

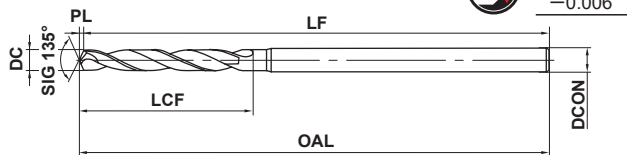
用于钻削非铁材料钻头(M)



P M K **N** S H

有色金属

外冷却



2.1≤DC≤3

0

-0.014

DCON=3

0

-0.006

- 凭借本公司独特的CVD金刚石涂层技术, 涂层与基体结合力强, 不易发生涂层剥离, 刀具崩刃, 可实现稳定钻削。

DC (mm)	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
2.1	DCSSMD0210	17.4	60.4	60	0.4	3	●
2.2	DCSSMD0220	17.5	60.5	60	0.5	3	●
2.3	DCSSMD0230	17.5	60.5	60	0.5	3	●
2.4	DCSSMD0240	17.5	60.5	60	0.5	3	●
2.5	DCSSMD0250	21.5	60.5	60	0.5	3	●
2.6	DCSSMD0260	21.5	60.5	60	0.5	3	●

DC (mm)	型号	尺寸 (mm)					库存
		LCF	OAL	LF	PL	DCON	
2.7	DCSSMD0270	21.6	60.6	60	0.6	3	●
2.8	DCSSMD0280	21.6	60.6	60	0.6	3	●
2.9	DCSSMD0290	21.6	60.6	60	0.6	3	●
3.0	DCSSMD0300	21.6	60.6	60	0.6	3	●

P
钻头

●：标准库存品

DCSSS

用于钻削非铁材料钻头(S)

DCSSM

用于钻削非铁材料钻头(M)

硬质合金

刀片规格

工件材料	铝合金 形变合金 A6061 A7075等		铝合金铸件 AC4B ADC10等		纯铜 铜合金 黄铜 Mg合金		石墨 软质陶瓷 烧前陶瓷		MMC FRP		
	直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
	0.2	20000	0.006	10000	0.003	20000	0.003	20000	0.01	10000	0.003
	0.5	20000	0.02	10000	0.01	20000	0.01	20000	0.03	10000	0.01
	1.0	20000	0.04	10000	0.02	20000	0.02	20000	0.05	10000	0.02
	1.5	20000	0.05	10000	0.02	16000	0.02	16000	0.08	10000	0.02
	2.0	20000	0.06	9000	0.03	11000	0.03	11000	0.10	9000	0.03
	2.5	18500	0.08	7500	0.04	10000	0.04	10000	0.12	7500	0.04
	3.0	17000	0.10	6000	0.05	8500	0.05	8500	0.15	6000	0.05

- 注1) 钻削高硬度工件时,请降低进给量。
注2) 加工时请使用水溶性冷却液或磨削液。
注3) 钻削深孔时,请降低切削条件。
注4) 使用高速主轴时,转速可以进一步提高。

P

钻头



P

M

K

N

S

H

有色金属

外冷却



●可以实现以往产品所不能进行的烧结陶瓷及石英玻璃等脆硬材料加工的钻头。



$0.05 \leq DC < 0.2$	$0.2 \leq DC \leq 3$
$\begin{matrix} 0 \\ -0.009 \end{matrix}$	$\begin{matrix} 0 \\ -0.014 \end{matrix}$
$\begin{matrix} 0 \\ -0.006 \end{matrix}$	$\begin{matrix} 0 \\ -0.006 \end{matrix}$

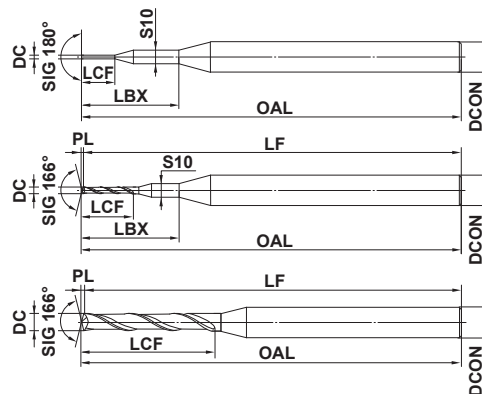


图1

图2

图3

DC (mm)	型号	LBX	LCF	OAL	LF	PL	S10	DCON	库存	图	短供货期
0.05	DCBSSD0005	6	0.5	38.0	38	—	1.0	3	□	1	◎
0.06	DCBSSD0006	6	0.6	38.0	38	—	1.0	3	□	1	◎
0.07	DCBSSD0007	6	0.7	38.004	38	0.004	1.0	3	□	2	◎
0.08	DCBSSD0008	6	0.8	38.005	38	0.005	1.0	3	□	2	◎
0.09	DCBSSD0009	6	0.9	38.006	38	0.006	1.0	3	□	2	◎
0.10	DCBSSD0010	6	1.0	38.01	38	0.01	1.0	3	●	2	◎
0.11	DCBSSD0011	6	1.2	38.01	38	0.01	1.0	3	●	2	◎
0.12	DCBSSD0012	6	1.4	38.01	38	0.01	1.0	3	●	2	◎
0.13	DCBSSD0013	6	1.5	38.01	38	0.01	1.0	3	●	2	◎
0.14	DCBSSD0014	6	1.5	38.01	38	0.01	1.0	3	●	2	◎
0.15	DCBSSD0015	6	1.5	38.01	38	0.01	1.0	3	●	2	◎
0.16	DCBSSD0016	6	1.5	38.01	38	0.01	1.0	3	●	2	◎
0.17	DCBSSD0017	6	1.5	38.01	38	0.01	1.0	3	●	2	◎
0.18	DCBSSD0018	6	1.5	38.01	38	0.01	1.0	3	●	2	◎
0.19	DCBSSD0019	6	1.5	38.01	38	0.01	1.0	3	●	2	◎
0.20	DCBSSD0020	—	2.0	38.01	38	0.01	—	3	●	3	◎
0.21	DCBSSD0021	—	2.0	38.01	38	0.01	—	3	□	3	◎
0.22	DCBSSD0022	—	2.0	38.01	38	0.01	—	3	□	3	◎
0.23	DCBSSD0023	—	2.0	38.01	38	0.01	—	3	□	3	◎
0.24	DCBSSD0024	—	2.0	38.01	38	0.01	—	3	□	3	◎
0.25	DCBSSD0025	—	2.5	38.02	38	0.02	—	3	●	3	◎
0.26	DCBSSD0026	—	2.5	38.02	38	0.02	—	3	□	3	◎
0.27	DCBSSD0027	—	2.5	38.02	38	0.02	—	3	□	3	◎
0.28	DCBSSD0028	—	2.5	38.02	38	0.02	—	3	□	3	◎
0.29	DCBSSD0029	—	2.5	38.02	38	0.02	—	3	□	3	◎
0.30	DCBSSD0030	—	3.0	38.02	38	0.02	—	3	●	3	◎
0.31	DCBSSD0031	—	3.0	38.02	38	0.02	—	3	□	3	◎
0.32	DCBSSD0032	—	3.0	38.02	38	0.02	—	3	□	3	◎
0.33	DCBSSD0033	—	3.0	38.02	38	0.02	—	3	□	3	◎
0.34	DCBSSD0034	—	3.5	38.02	38	0.02	—	3	□	3	◎
0.35	DCBSSD0035	—	3.5	38.02	38	0.02	—	3	●	3	◎
0.36	DCBSSD0036	—	3.5	38.02	38	0.02	—	3	□	3	◎

DC (mm)	型号	LBX	LCF	OAL	LF	PL	S10	DCON	库存	图	短供货期
0.40	DCBSSD0040	—	4.0	38.02	38	0.02	—	3	●	3	◎
0.45	DCBSSD0045	—	4.0	38.03	38	0.03	—	3	□	3	◎
0.50	DCBSSD0050	—	4.0	38.03	38	0.03	—	3	●	3	◎
0.55	DCBSSD0055	—	4.5	38.03	38	0.03	—	3	□	3	◎
0.60	DCBSSD0060	—	5.0	38.04	38	0.04	—	3	●	3	◎
0.70	DCBSSD0070	—	5.0	38.04	38	0.04	—	3	●	3	◎
0.80	DCBSSD0080	—	6.1	38.05	38	0.05	—	3	●	3	◎
0.85	DCBSSD0085	—	6.1	38.05	38	0.05	—	3	□	3	◎
0.90	DCBSSD0090	—	6.1	38.06	38	0.06	—	3	●	3	◎
1.00	DCBSSD0100	—	8.1	38.1	38	0.1	—	3	●	3	◎
1.10	DCBSSD0110	—	8.1	38.1	38	0.1	—	3	●	3	◎
1.20	DCBSSD0120	—	8.1	38.1	38	0.1	—	3	●	3	◎
1.30	DCBSSD0130	—	8.1	38.1	38	0.1	—	3	●	3	◎
1.40	DCBSSD0140	—	8.1	38.1	38	0.1	—	3	●	3	◎
1.50	DCBSSD0150	—	10.1	38.1	38	0.1	—	3	●	3	◎
1.60	DCBSSD0160	—	10.1	38.1	38	0.1	—	3	●	3	◎
1.70	DCBSSD0170	—	10.1	38.1	38	0.1	—	3	●	3	◎
1.80	DCBSSD0180	—	10.1	38.1	38	0.1	—	3	●	3	◎
1.90	DCBSSD0190	—	10.1	38.1	38	0.1	—	3	●	3	◎
2.00	DCBSSD0200	—	12.1	38.1	38	0.1	—	3	●	3	◎
2.10	DCBSSD0210	—	12.1	38.1	38	0.1	—	3	□	3	◎
2.20	DCBSSD0220	—	12.1	38.1	38	0.1	—	3	□	3	◎
2.30	DCBSSD0230	—	12.1	38.1	38	0.1	—	3	□	3	◎
2.40	DCBSSD0240	—	12.2	38.2	38	0.2	—	3	□	3	◎
2.50	DCBSSD0250	—	12.2	38.2	38	0.2	—	3	●	3	◎
2.60	DCBSSD0260	—	12.2	38.2	38	0.2	—	3	□	3	◎
2.70	DCBSSD0270	—	12.2	38.2	38	0.2	—	3	□	3	◎
2.80	DCBSSD0280	—	12.2	38.2	38	0.2	—	3	□	3	◎
2.90	DCBSSD0290	—	12.2	38.2	38	0.2	—	3	□	3	◎
3.00	DCBSSD0300	—	12.2	38.2	38	0.2	—	3	□	3	◎

注1) 库存□(预订生产品)表示基本尺寸。直径、槽长等有什么要求也可商谈。

注2) 备注栏内带◎标记的产品供货期短(1~2周)。其他产品的供货期有什么需求也可商谈。

注3) DC=0.05、0.06的产品为无槽的特殊形状,因此LCF表示颈长,而不是槽长。

●: 标准库存品 □: 预订生产品

推荐切削条件

工件材料	氮化铝				氧化铝				氧化锆			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	步进量 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	步进量 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	步进量 (mm)
0.05	3	20000	0.000015	0.001	3	20000	0.00001	0.001	3	20000	0.00001	0.001
0.08	5	20000	0.00003	0.003	5	20000	0.00002	0.002	5	20000	0.00002	0.001
0.1	6	20000	0.0002	0.01	6	20000	0.0001	0.005	6	20000	0.0001	0.003
0.16	9	18000	0.0002	0.01	9	18000	0.0001	0.005	9	18000	0.0001	0.003
0.2	9	15000	0.0002	0.01	9	15000	0.0001	0.005	9	15000	0.0001	0.003
0.32	12	12000	0.0002	0.01	12	12000	0.0001	0.005	12	12000	0.0001	0.003
0.4	15	12000	0.0002	0.01	15	12000	0.0001	0.005	15	12000	0.0001	0.003
0.5	19	12000	0.0002	0.01	19	12000	0.0001	0.005	19	12000	0.0001	0.003
0.6	19	10000	0.0002	0.01	19	10000	0.0001	0.005	19	10000	0.0001	0.003
0.8	25	10000	0.0002	0.01	25	10000	0.0001	0.005	25	10000	0.0001	0.003
1	31	10000	0.0002	0.01	31	10000	0.0001	0.005	31	10000	0.0001	0.003
1.2	30	8000	0.00025	0.01	30	8000	0.00015	0.005	30	8000	0.00015	0.003
1.6	40	8000	0.0003	0.01	40	8000	0.0002	0.005	40	8000	0.0002	0.003
2	38	6000	0.0003	0.01	38	6000	0.0002	0.005	38	6000	0.0002	0.003
3	47	5000	0.0003	0.01	47	5000	0.0003	0.005	47	5000	0.0002	0.003

工件材料	碳化硅 氮化硅				石英玻璃			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	步进量 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	步进量 (mm)
0.05	3	20000	0.000005	0.0005	3	20000	0.000015	0.001
0.08	5	20000	0.00001	0.001	5	20000	0.00003	0.005
0.1	6	20000	0.00005	0.002	6	20000	0.0002	0.05
0.16	9	18000	0.00005	0.002	9	18000	0.0002	0.05
0.2	9	15000	0.00005	0.002	9	15000	0.0002	0.05
0.32	12	12000	0.00005	0.002	12	12000	0.0002	0.05
0.4	15	12000	0.00005	0.002	15	12000	0.0003	0.05
0.5	19	12000	0.00005	0.002	19	12000	0.0003	0.05
0.6	19	10000	0.00005	0.002	19	10000	0.0003	0.05
0.8	25	10000	0.00005	0.002	25	10000	0.0003	0.05
1	31	10000	0.00005	0.002	31	10000	0.0003	0.05
1.2	30	8000	0.00007	0.002	30	8000	0.0004	0.05
1.6	40	8000	0.0001	0.002	40	8000	0.0004	0.05
2	38	6000	0.0001	0.002	38	6000	0.0004	0.05
3	47	5000	0.0001	0.002	47	5000	0.0005	0.05

注1) 有的机床也可在20000min⁻¹以上的高速旋转条件下加工。

注2) 加工时请使用水溶性冷却液或磨削液。

注3) 关于上表中未表示的中间直径钻头的转速, 请按大直径且最接近钻头直径的条件选择, 或者根据最接近钻头直径的切削速度进行计算。每转进给量则按照最接近钻头直径的推荐进给量进行合理设置。



P

钢

M

不锈钢

K

铸铁

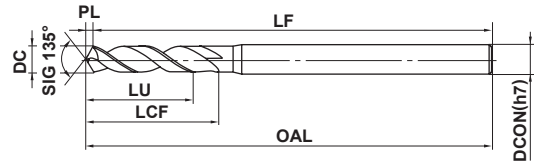
N

有色金属

S

耐热合金

H



※LU = LCF-2DC (Max 3×DC)



$0.5 \leq DC \leq 3$	$3.1 \leq DC \leq 4$
$\begin{matrix} 0 \\ -0.006 \end{matrix}$	$\begin{matrix} 0 \\ -0.008 \end{matrix}$

●采用独创的D-STH处理，切削锋利性好，耐粘结性与排屑性提高。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SEPDS0050	0.50	3.1	50.1	50	0.10	3	●
SEPDS0055	0.55	3.1	50.1	50	0.11	3	●
SEPDS0060	0.60	5.1	50.1	50	0.12	3	●
SEPDS0065	0.65	5.1	50.1	50	0.13	3	●
SEPDS0070	0.70	5.1	50.1	50	0.14	3	●
SEPDS0075	0.75	5.2	50.2	50	0.16	3	●
SEPDS0080	0.80	5.2	50.2	50	0.17	3	●
SEPDS0085	0.85	5.2	50.2	50	0.18	3	●
SEPDS0090	0.90	6.2	50.2	50	0.19	3	●
SEPDS0095	0.95	6.2	50.2	50	0.2	3	●
SEPDS0100	1.0	6.2	50.2	50	0.2	3	●
SEPDS0110	1.1	8.2	55.2	55	0.2	3	●
SEPDS0120	1.2	8.3	55.3	55	0.3	3	●
SEPDS0130	1.3	9.3	55.3	55	0.3	3	●
SEPDS0140	1.4	9.3	55.3	55	0.3	3	●
SEPDS0150	1.5	9.3	55.3	55	0.3	3	●
SEPDS0160	1.6	11.3	55.3	55	0.3	3	●
SEPDS0170	1.7	11.4	55.4	55	0.4	3	●
SEPDS0180	1.8	11.4	55.4	55	0.4	3	●
SEPDS0190	1.9	12.4	55.4	55	0.4	3	●
SEPDS0200	2.0	12.4	60.4	60	0.4	3	●
SEPDS0210	2.1	12.4	60.4	60	0.4	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SEPDS0220	2.2	12.5	60.5	60	0.5	3	●
SEPDS0230	2.3	13.5	60.5	60	0.5	3	●
SEPDS0240	2.4	13.5	60.5	60	0.5	3	●
SEPDS0250	2.5	13.5	60.5	60	0.5	3	●
SEPDS0260	2.6	15.5	60.5	60	0.5	3	●
SEPDS0270	2.7	15.6	60.6	60	0.6	3	●
SEPDS0280	2.8	15.6	60.6	60	0.6	3	●
SEPDS0290	2.9	15.6	60.6	60	0.6	3	●
SEPDS0300	3.0	15.6	60.6	60	0.6	3	●
SEPDS0310	3.1	17.6	70.6	70	0.6	4	●
SEPDS0320	3.2	17.7	70.7	70	0.7	4	●
SEPDS0330	3.3	19.7	70.7	70	0.7	4	●
SEPDS0340	3.4	19.7	70.7	70	0.7	4	●
SEPDS0350	3.5	19.7	70.7	70	0.7	4	●
SEPDS0360	3.6	21.8	70.8	70	0.8	4	●
SEPDS0370	3.7	21.8	70.8	70	0.8	4	●
SEPDS0380	3.8	21.8	70.8	70	0.8	4	●
SEPDS0390	3.9	21.8	70.8	70	0.8	4	●
SEPDS0400	4.0	21.8	70.8	70	0.8	4	●

P

钻头

●：标准库存品

推荐切削条件

工件材料	软钢 (≤HB180), 铝合金 (Si<5%)				碳钢、合金钢 (HB180—280), 灰铸铁 (≤350MPa), 铜、铜合金				合金工具钢 (≤HB250) 铁素体、析出硬化类不锈钢 (≤HB200)			
	SS400、S10C、A6061、A7075等				S45C、SCM440、FC300等				SKD11、SUS410、SUS430等			
直径 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)
0.5	24	15000	0.02	300	18	11250	0.01	110	13	8000	0.01	80
0.65	28	13700	0.03	410	22	10700	0.02	210	14	6800	0.02	135
0.8	33	13100	0.04	520	27	10700	0.03	320	14	5500	0.03	165
1.0	38	12000	0.05	600	31	10000	0.05	500	16	5000	0.05	250
1.2	38	10000	0.06	600	31	8200	0.06	490	17	4500	0.05	225
1.6	40	8000	0.08	640	33	6500	0.08	520	18	3500	0.06	210
2.0	40	6400	0.09	575	35	5500	0.09	495	18	2900	0.06	170
2.5	40	5100	0.11	560	35	4400	0.11	480	18	2300	0.08	180
3.2	40	4000	0.13	520	34	3400	0.13	440	18	1800	0.09	160
4.0	40	3200	0.15	480	35	2800	0.15	420	18	1400	0.10	140

工件材料	铁素体、析出硬化类不锈钢 (≤HB200)				合金工具钢 (≤30HRC)			
	SUS410、SUS430等				SKD61、SKT4等			
直径 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)
0.5	10	6600	0.01	65	10	6600	0.01	65
0.65	11	5300	0.012	60	11	5300	0.012	60
0.8	11	4300	0.015	60	11	4300	0.015	60
1.0	12	3800	0.02	75	12	3800	0.02	75
1.2	12	3100	0.025	75	12	3100	0.023	70
1.6	14	2700	0.03	80	14	2700	0.03	80
2.0	15	2400	0.04	95	15	2400	0.04	95
2.5	15	1900	0.05	95	15	1900	0.04	75
3.2	15	1500	0.07	105	15	1500	0.05	75
4.0	15	1200	0.09	105	15	1200	0.07	80

注1) 工件安装刚性差时,或机床条件有限制时,按照其情况,应降低进给量和转速。

注2) 请使用弹簧筒夹式钻夹头和铰夹头。

注3) 应使用足量的切削液。

注4) 若工件硬度大于HRC30,推荐使用VAPDS、VAPDM。

注5) 加工析出硬化系不锈钢(SUS630、SUS631)推荐使用WSTAR钻头(MVE/MVS)。

注6) 孔深超过DC×4时,请采用步进方式加工。

注7) 上述切削条件是使用水溶性切削液的标准情况。

若使用非水溶性切削液时,应降低转速。

注8) 上表中未刊载中间直径钻头的转速,请根据大直径且最接近钻头直径的条件或根据最接近钻头直径的切削速度进行计算。请将每转进给量设为以最接近钻头直径的推荐进给量为标准的适当值。

高速钢铣刀柄钻头

SEPDM

SE 高精度钻头 (M)



DC<4

DC=4

P

M

K

N

S

H

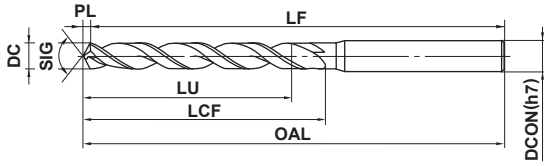
钢

不锈钢

铸铁

有色金属

耐热合金



※LU = LCF-2DC (Max 5×DC)



$0.5 \leq DC \leq 3$	$3.1 \leq DC \leq 4$
$\begin{matrix} 0 \\ -0.006 \end{matrix}$	$\begin{matrix} 0 \\ -0.008 \end{matrix}$

●采用独创的D-STH处理，切削锋利性好，耐粘结性与排屑性提高。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SEPDMD0050	0.50	6.2	50.2	50	0.15	3	●
SEPDMD0055	0.55	6.2	50.2	50	0.17	3	●
SEPDMD0060	0.60	8.2	50.2	50	0.18	3	●
SEPDMD0065	0.65	8.2	50.2	50	0.20	3	●
SEPDMD0070	0.70	10.2	50.2	50	0.21	3	●
SEPDMD0075	0.75	10.2	50.2	50	0.23	3	●
SEPDMD0080	0.80	10.2	50.2	50	0.24	3	●
SEPDMD0085	0.85	10.3	50.3	50	0.26	3	●
SEPDMD0090	0.90	12.3	50.3	50	0.27	3	●
SEPDMD0095	0.95	12.3	50.3	50	0.29	3	●
SEPDMD0100	1.0	12.3	60.3	60	0.3	3	●
SEPDMD0110	1.1	16.3	60.3	60	0.3	3	●
SEPDMD0120	1.2	16.4	60.4	60	0.4	3	●
SEPDMD0130	1.3	16.4	60.4	60	0.4	3	●
SEPDMD0140	1.4	18.4	60.4	60	0.4	3	●
SEPDMD0150	1.5	18.5	60.5	60	0.5	3	●
SEPDMD0160	1.6	20.5	60.5	60	0.5	3	●
SEPDMD0170	1.7	20.5	60.5	60	0.5	3	●
SEPDMD0180	1.8	22.5	60.5	60	0.5	3	●
SEPDMD0190	1.9	22.6	60.6	60	0.6	3	●
SEPDMD0200	2.0	23.6	70.6	70	0.6	3	●
SEPDMD0210	2.1	23.6	70.6	70	0.6	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SEPDMD0220	2.2	26.7	70.7	70	0.7	3	●
SEPDMD0230	2.3	26.7	70.7	70	0.7	3	●
SEPDMD0240	2.4	29.7	70.7	70	0.7	3	●
SEPDMD0250	2.5	29.8	70.8	70	0.8	3	●
SEPDMD0260	2.6	29.8	70.8	70	0.8	3	●
SEPDMD0270	2.7	32.8	70.8	70	0.8	3	●
SEPDMD0280	2.8	32.8	70.8	70	0.8	3	●
SEPDMD0290	2.9	32.9	70.9	70	0.9	3	●
SEPDMD0300	3.0	32.9	70.9	70	0.9	3	●
SEPDMD0310	3.1	35.9	85.9	85	0.9	4	●
SEPDMD0320	3.2	36.0	86.0	85	1.0	4	●
SEPDMD0330	3.3	36.0	86.0	85	1.0	4	●
SEPDMD0340	3.4	39.0	86.0	85	1.0	4	●
SEPDMD0350	3.5	39.1	86.1	85	1.1	4	●
SEPDMD0360	3.6	39.1	86.1	85	1.1	4	●
SEPDMD0370	3.7	39.1	86.1	85	1.1	4	●
SEPDMD0380	3.8	43.1	86.1	85	1.1	4	●
SEPDMD0390	3.9	43.2	86.2	85	1.2	4	●
SEPDMD0400	4.0	42.8	85.8	85	0.8	4	●

P

钻头

●：标准库存品

推荐切削条件

工件材料	软钢 (≤HB180), 铝合金 (Si<5%)				碳钢、合金钢 (HB180—280), 灰铸铁 (≤350MPa), 铜、铜合金				合金工具钢 (≤HB250) 铁素体、析出硬化类不锈钢 (≤HB200)			
	SS400、S10C、A6061、A7075等				S45C、SCM440、FC300等				SKD11、SUS410、SUS430等			
直径 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)
0.5	24	15000	0.02	300	18	11250	0.01	110	13	8000	0.01	80
0.65	28	13700	0.03	410	22	10700	0.02	210	14	6800	0.02	135
0.8	33	13100	0.04	520	27	10700	0.03	320	14	5500	0.03	165
1.0	38	12000	0.05	600	31	10000	0.05	500	16	5000	0.05	250
1.2	38	10000	0.06	600	31	8200	0.06	490	17	4500	0.05	225
1.6	40	8000	0.08	640	33	6500	0.08	520	18	3500	0.06	210
2.0	40	6400	0.09	575	35	5500	0.09	495	18	2900	0.06	170
2.5	40	5100	0.11	560	35	4400	0.11	480	18	2300	0.08	180
3.2	40	4000	0.13	520	34	3400	0.13	440	18	1800	0.09	160
4.0	40	3200	0.15	480	35	2800	0.15	420	18	1400	0.10	140

工件材料	铁素体、析出硬化类不锈钢 (≤HB200)				合金工具钢 (≤30HRC)			
	SUS410、SUS430等				SKD61、SKT4等			
直径 (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)
0.5	10	6600	0.01	65	10	6600	0.01	65
0.65	11	5300	0.012	60	11	5300	0.012	60
0.8	11	4300	0.015	60	11	4300	0.015	60
1.0	12	3800	0.02	75	12	3800	0.02	75
1.2	12	3100	0.025	75	12	3100	0.023	70
1.6	14	2700	0.03	80	14	2700	0.03	80
2.0	15	2400	0.04	95	15	2400	0.04	95
2.5	15	1900	0.05	95	15	1900	0.04	75
3.2	15	1500	0.07	105	15	1500	0.05	75
4.0	15	1200	0.09	105	15	1200	0.07	80

注1) 工件安装刚性差时,或机床条件有限制时,按照其情况,应降低进给量和转速。

注2) 请使用弹簧筒夹式钻夹头和铰夹头。

注3) 应使用足量的切削液。

注4) 若工件硬度大于HRC30,推荐使用VAPDS、VAPDM。

注5) 加工析出硬化系不锈钢(SUS630、SUS631)推荐使用WSTAR钻头(MVE/MVS)。

注6) 孔深超过DC×4时,请采用步进方式加工。

注7) 上述切削条件是使用水溶性切削液的标准情况。

若使用非水溶性切削液时,应降低转速。

注8) 上表中未刊载中间直径钻头的转速,请根据大直径且最接近钻头直径的条件或根据最接近钻头直径的切削速度进行计算。请将每转进给量设为以最接近钻头直径的推荐进给量为标准的适当值。

P

钻头



DC<2

DC≥2

P

钢

M

不锈钢

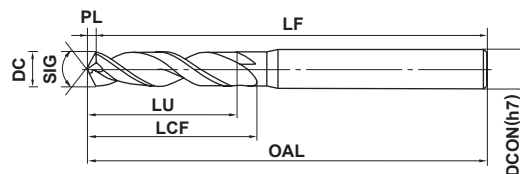
K

铸铁

N

S

H



※LU = LCF-2DC (Max 3×DC)



0.5≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤13
$\begin{smallmatrix} 0 \\ -0.014 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.022 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.027 \end{smallmatrix}$

※钻头直径小于2.0mm，直径间隔为0.1，
其他尺寸间隔为0.01；直径公差为0—-0.009mm。

●VIOLET涂层钻头的钻削效率高，钻头寿命长。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD0050	0.50	3.2	50.2	50	0.15	3	●
VAPDSD0051	0.51	3.2	50.2	50	0.15	3	●
VAPDSD0052	0.52	3.2	50.2	50	0.16	3	●
VAPDSD0053	0.53	3.2	50.2	50	0.16	3	●
VAPDSD0054	0.54	3.2	50.2	50	0.16	3	●
VAPDSD0055	0.55	3.2	50.2	50	0.17	3	●
VAPDSD0056	0.56	4.2	50.2	50	0.17	3	●
VAPDSD0057	0.57	4.2	50.2	50	0.17	3	●
VAPDSD0058	0.58	4.2	50.2	50	0.17	3	●
VAPDSD0059	0.59	4.2	50.2	50	0.18	3	●
VAPDSD0060	0.60	5.2	50.2	50	0.18	3	●
VAPDSD0061	0.61	5.2	50.2	50	0.18	3	●
VAPDSD0062	0.62	5.2	50.2	50	0.19	3	●
VAPDSD0063	0.63	5.2	50.2	50	0.19	3	●
VAPDSD0064	0.64	5.2	50.2	50	0.19	3	●
VAPDSD0065	0.65	5.2	50.2	50	0.20	3	●
VAPDSD0066	0.66	5.2	50.2	50	0.20	3	●
VAPDSD0067	0.67	5.2	50.2	50	0.20	3	●
VAPDSD0068	0.68	5.2	50.2	50	0.20	3	●
VAPDSD0069	0.69	5.2	50.2	50	0.21	3	●
VAPDSD0070	0.70	5.2	50.2	50	0.21	3	●
VAPDSD0071	0.71	5.2	50.2	50	0.21	3	●
VAPDSD0072	0.72	5.2	50.2	50	0.22	3	●
VAPDSD0073	0.73	5.2	50.2	50	0.22	3	●
VAPDSD0074	0.74	5.2	50.2	50	0.22	3	●
VAPDSD0075	0.75	5.2	50.2	50	0.23	3	●
VAPDSD0076	0.76	5.2	50.2	50	0.23	3	●
VAPDSD0077	0.77	5.2	50.2	50	0.23	3	●
VAPDSD0078	0.78	5.2	50.2	50	0.23	3	●
VAPDSD0079	0.79	5.2	50.2	50	0.24	3	●
VAPDSD0080	0.80	5.2	50.2	50	0.24	3	●
VAPDSD0081	0.81	5.2	50.2	50	0.24	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD0082	0.82	5.3	50.3	50	0.25	3	●
VAPDSD0083	0.83	5.3	50.3	50	0.25	3	●
VAPDSD0084	0.84	5.3	50.3	50	0.25	3	●
VAPDSD0085	0.85	5.3	50.3	50	0.26	3	●
VAPDSD0086	0.86	6.3	50.3	50	0.26	3	●
VAPDSD0087	0.87	6.3	50.3	50	0.26	3	●
VAPDSD0088	0.88	6.3	50.3	50	0.26	3	●
VAPDSD0089	0.89	6.3	50.3	50	0.27	3	●
VAPDSD0090	0.90	6.3	50.3	50	0.27	3	●
VAPDSD0091	0.91	6.3	50.3	50	0.27	3	●
VAPDSD0092	0.92	6.3	50.3	50	0.28	3	●
VAPDSD0093	0.93	6.3	50.3	50	0.28	3	●
VAPDSD0094	0.94	6.3	50.3	50	0.28	3	●
VAPDSD0095	0.95	6.3	50.3	50	0.29	3	●
VAPDSD0096	0.96	6.3	50.3	50	0.29	3	●
VAPDSD0097	0.97	6.3	50.3	50	0.29	3	●
VAPDSD0098	0.98	6.3	50.3	50	0.29	3	●
VAPDSD0099	0.99	6.3	50.3	50	0.30	3	●
VAPDSD0100	1.00	6.3	50.3	50	0.3	3	●
VAPDSD0101	1.01	6.3	50.3	50	0.3	3	●
VAPDSD0102	1.02	6.3	50.3	50	0.3	3	●
VAPDSD0103	1.03	6.3	50.3	50	0.3	3	●
VAPDSD0104	1.04	6.3	50.3	50	0.3	3	●
VAPDSD0105	1.05	6.3	50.3	50	0.3	3	●
VAPDSD0106	1.06	6.3	50.3	50	0.3	3	●
VAPDSD0107	1.07	8.3	55.3	55	0.3	3	●
VAPDSD0108	1.08	8.3	55.3	55	0.3	3	●
VAPDSD0109	1.09	8.3	55.3	55	0.3	3	●
VAPDSD0110	1.10	8.3	55.3	55	0.3	3	●
VAPDSD0111	1.11	8.3	55.3	55	0.3	3	●
VAPDSD0112	1.12	8.3	55.3	55	0.3	3	●
VAPDSD0113	1.13	8.3	55.3	55	0.3	3	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD0114	1.14	8.3	55.3	55	0.3	3	●
VAPDSD0115	1.15	8.4	55.4	55	0.4	3	●
VAPDSD0116	1.16	8.4	55.4	55	0.4	3	●
VAPDSD0117	1.17	8.4	55.4	55	0.4	3	●
VAPDSD0118	1.18	8.4	55.4	55	0.4	3	●
VAPDSD0119	1.19	8.4	55.4	55	0.4	3	●
VAPDSD0120	1.20	8.4	55.4	55	0.4	3	●
VAPDSD0121	1.21	8.4	55.4	55	0.4	3	●
VAPDSD0122	1.22	8.4	55.4	55	0.4	3	●
VAPDSD0123	1.23	8.4	55.4	55	0.4	3	●
VAPDSD0124	1.24	8.4	55.4	55	0.4	3	●
VAPDSD0125	1.25	8.4	55.4	55	0.4	3	●
VAPDSD0126	1.26	8.4	55.4	55	0.4	3	●
VAPDSD0127	1.27	8.4	55.4	55	0.4	3	●
VAPDSD0128	1.28	8.4	55.4	55	0.4	3	●
VAPDSD0129	1.29	8.4	55.4	55	0.4	3	●
VAPDSD0130	1.30	9.4	55.4	55	0.4	3	●
VAPDSD0131	1.31	9.4	55.4	55	0.4	3	●
VAPDSD0132	1.32	9.4	55.4	55	0.4	3	●
VAPDSD0133	1.33	9.4	55.4	55	0.4	3	●
VAPDSD0134	1.34	9.4	55.4	55	0.4	3	●
VAPDSD0135	1.35	9.4	55.4	55	0.4	3	●
VAPDSD0136	1.36	9.4	55.4	55	0.4	3	●
VAPDSD0137	1.37	9.4	55.4	55	0.4	3	●
VAPDSD0138	1.38	9.4	55.4	55	0.4	3	●
VAPDSD0139	1.39	9.4	55.4	55	0.4	3	●
VAPDSD0140	1.40	9.4	55.4	55	0.4	3	●
VAPDSD0141	1.41	9.4	55.4	55	0.4	3	●
VAPDSD0142	1.42	9.4	55.4	55	0.4	3	●
VAPDSD0143	1.43	9.4	55.4	55	0.4	3	●
VAPDSD0144	1.44	9.4	55.4	55	0.4	3	●
VAPDSD0145	1.45	9.4	55.4	55	0.4	3	●
VAPDSD0146	1.46	9.4	55.4	55	0.4	3	●
VAPDSD0147	1.47	9.4	55.4	55	0.4	3	●
VAPDSD0148	1.48	9.4	55.4	55	0.4	3	●
VAPDSD0149	1.49	9.5	55.5	55	0.5	3	●
VAPDSD0150	1.50	9.5	55.5	55	0.5	3	●
VAPDSD0151	1.51	11.5	55.5	55	0.5	3	●
VAPDSD0152	1.52	11.5	55.5	55	0.5	3	●
VAPDSD0153	1.53	11.5	55.5	55	0.5	3	●
VAPDSD0154	1.54	11.5	55.5	55	0.5	3	●
VAPDSD0155	1.55	11.5	55.5	55	0.5	3	●
VAPDSD0156	1.56	11.5	55.5	55	0.5	3	●
VAPDSD0157	1.57	11.5	55.5	55	0.5	3	●
VAPDSD0158	1.58	11.5	55.5	55	0.5	3	●
VAPDSD0159	1.59	11.5	55.5	55	0.5	3	●
VAPDSD0160	1.60	11.5	55.5	55	0.5	3	●
VAPDSD0161	1.61	11.5	55.5	55	0.5	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD0162	1.62	11.5	55.5	55	0.5	3	●
VAPDSD0163	1.63	11.5	55.5	55	0.5	3	●
VAPDSD0164	1.64	11.5	55.5	55	0.5	3	●
VAPDSD0165	1.65	11.5	55.5	55	0.5	3	●
VAPDSD0166	1.66	11.5	55.5	55	0.5	3	●
VAPDSD0167	1.67	11.5	55.5	55	0.5	3	●
VAPDSD0168	1.68	11.5	55.5	55	0.5	3	●
VAPDSD0169	1.69	11.5	55.5	55	0.5	3	●
VAPDSD0170	1.70	11.5	55.5	55	0.5	3	●
VAPDSD0171	1.71	11.5	55.5	55	0.5	3	●
VAPDSD0172	1.72	11.5	55.5	55	0.5	3	●
VAPDSD0173	1.73	11.5	55.5	55	0.5	3	●
VAPDSD0174	1.74	11.5	55.5	55	0.5	3	●
VAPDSD0175	1.75	11.5	55.5	55	0.5	3	●
VAPDSD0176	1.76	11.5	55.5	55	0.5	3	●
VAPDSD0177	1.77	11.5	55.5	55	0.5	3	●
VAPDSD0178	1.78	11.5	55.5	55	0.5	3	●
VAPDSD0179	1.79	11.5	55.5	55	0.5	3	●
VAPDSD0180	1.80	11.5	55.5	55	0.5	3	●
VAPDSD0181	1.81	11.5	55.5	55	0.5	3	●
VAPDSD0182	1.82	11.6	55.6	55	0.6	3	●
VAPDSD0183	1.83	11.6	55.6	55	0.6	3	●
VAPDSD0184	1.84	11.6	55.6	55	0.6	3	●
VAPDSD0185	1.85	11.6	55.6	55	0.6	3	●
VAPDSD0186	1.86	11.6	55.6	55	0.6	3	●
VAPDSD0187	1.87	11.6	55.6	55	0.6	3	●
VAPDSD0188	1.88	11.6	55.6	55	0.6	3	●
VAPDSD0189	1.89	11.6	55.6	55	0.6	3	●
VAPDSD0190	1.90	12.6	55.6	55	0.6	3	●
VAPDSD0191	1.91	12.6	60.6	60	0.6	3	●
VAPDSD0192	1.92	12.6	60.6	60	0.6	3	●
VAPDSD0193	1.93	12.6	60.6	60	0.6	3	●
VAPDSD0194	1.94	12.6	60.6	60	0.6	3	●
VAPDSD0195	1.95	12.6	60.6	60	0.6	3	●
VAPDSD0196	1.96	12.6	60.6	60	0.6	3	●
VAPDSD0197	1.97	12.6	60.6	60	0.6	3	●
VAPDSD0198	1.98	12.6	60.6	60	0.6	3	●
VAPDSD0199	1.99	12.6	60.6	60	0.6	3	●
VAPDSD0200	2.00	12.4	60.4	60	0.4	3	●
VAPDSD0205	2.05	12.4	60.4	60	0.4	3	●
VAPDSD0210	2.10	12.4	60.4	60	0.4	3	●
VAPDSD0215	2.15	12.5	60.5	60	0.5	3	●
VAPDSD0220	2.20	12.5	60.5	60	0.5	3	●
VAPDSD0225	2.25	12.5	60.5	60	0.5	3	●
VAPDSD0230	2.30	13.5	60.5	60	0.5	3	●
VAPDSD0235	2.35	13.5	60.5	60	0.5	3	●
VAPDSD0240	2.40	13.5	60.5	60	0.5	3	●
VAPDSD0245	2.45	13.5	60.5	60	0.5	3	●

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钻头

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD0250	2.50	13.5	60.5	60	0.5	3	●
VAPDSD0255	2.55	13.5	60.5	60	0.5	3	●
VAPDSD0260	2.60	15.5	60.5	60	0.5	3	●
VAPDSD0265	2.65	15.6	60.6	60	0.6	3	●
VAPDSD0270	2.70	15.6	60.6	60	0.6	3	●
VAPDSD0275	2.75	15.6	60.6	60	0.6	3	●
VAPDSD0280	2.80	15.6	60.6	60	0.6	3	●
VAPDSD0285	2.85	15.6	60.6	60	0.6	3	●
VAPDSD0290	2.90	15.6	60.6	60	0.6	3	●
VAPDSD0295	2.95	15.6	60.6	60	0.6	3	●
VAPDSD0300	3.00	15.6	60.6	60	0.6	3	●
VAPDSD0305	3.05	17.6	70.6	70	0.6	4	●
VAPDSD0310	3.10	17.6	70.6	70	0.6	4	●
VAPDSD0315	3.15	17.7	70.7	70	0.7	4	●
VAPDSD0320	3.20	17.7	70.7	70	0.7	4	●
VAPDSD0325	3.25	17.7	70.7	70	0.7	4	●
VAPDSD0330	3.30	19.7	70.7	70	0.7	4	●
VAPDSD0335	3.35	19.7	70.7	70	0.7	4	●
VAPDSD0340	3.40	19.7	70.7	70	0.7	4	●
VAPDSD0345	3.45	19.7	70.7	70	0.7	4	●
VAPDSD0350	3.50	19.7	70.7	70	0.7	4	●
VAPDSD0355	3.55	19.7	70.7	70	0.7	4	●
VAPDSD0360	3.60	21.8	70.8	70	0.8	4	●
VAPDSD0365	3.65	21.8	70.8	70	0.8	4	●
VAPDSD0370	3.70	21.8	70.8	70	0.8	4	●
VAPDSD0375	3.75	21.8	70.8	70	0.8	4	●
VAPDSD0380	3.80	21.8	70.8	70	0.8	4	●
VAPDSD0385	3.85	21.8	70.8	70	0.8	4	●
VAPDSD0390	3.90	21.8	70.8	70	0.8	4	●
VAPDSD0395	3.95	21.8	70.8	70	0.8	4	●
VAPDSD0400	4.00	21.8	70.8	70	0.8	4	●
VAPDSD0405	4.05	21.8	80.8	80	0.8	6	●
VAPDSD0410	4.10	21.9	80.9	80	0.9	6	●
VAPDSD0415	4.15	21.9	80.9	80	0.9	6	●
VAPDSD0420	4.20	21.9	80.9	80	0.9	6	●
VAPDSD0425	4.25	21.9	80.9	80	0.9	6	●
VAPDSD0430	4.30	23.9	80.9	80	0.9	6	●
VAPDSD0435	4.35	23.9	80.9	80	0.9	6	●
VAPDSD0440	4.40	23.9	80.9	80	0.9	6	●
VAPDSD0445	4.45	23.9	80.9	80	0.9	6	●
VAPDSD0450	4.50	23.9	80.9	80	0.9	6	●
VAPDSD0455	4.55	23.9	80.9	80	0.9	6	●
VAPDSD0460	4.60	26.0	81.0	80	1.0	6	●
VAPDSD0465	4.65	26.0	81.0	80	1.0	6	●
VAPDSD0470	4.70	26.0	81.0	80	1.0	6	●
VAPDSD0475	4.75	26.0	81.0	80	1.0	6	●
VAPDSD0480	4.80	26.0	81.0	80	1.0	6	●
VAPDSD0485	4.85	26.0	81.0	80	1.0	6	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD0490	4.90	26.0	81.0	80	1.0	6	●
VAPDSD0495	4.95	26.0	81.0	80	1.0	6	●
VAPDSD0500	5.00	26.0	81.0	80	1.0	6	●
VAPDSD0505	5.05	26.1	81.1	80	1.1	6	●
VAPDSD0510	5.10	26.1	81.1	80	1.1	6	●
VAPDSD0515	5.15	26.1	81.1	80	1.1	6	●
VAPDSD0520	5.20	26.1	81.1	80	1.1	6	●
VAPDSD0525	5.25	26.1	81.1	80	1.1	6	●
VAPDSD0530	5.30	26.1	81.1	80	1.1	6	●
VAPDSD0535	5.35	28.1	81.1	80	1.1	6	●
VAPDSD0540	5.40	28.1	81.1	80	1.1	6	●
VAPDSD0545	5.45	28.1	81.1	80	1.1	6	●
VAPDSD0550	5.50	28.1	81.1	80	1.1	6	●
VAPDSD0555	5.55	28.2	81.2	80	1.2	6	●
VAPDSD0560	5.60	28.2	81.2	80	1.2	6	●
VAPDSD0565	5.65	28.2	81.2	80	1.2	6	●
VAPDSD0570	5.70	28.2	81.2	80	1.2	6	●
VAPDSD0575	5.75	28.2	81.2	80	1.2	6	●
VAPDSD0580	5.80	28.2	81.2	80	1.2	6	●
VAPDSD0585	5.85	28.2	81.2	80	1.2	6	●
VAPDSD0590	5.90	28.2	81.2	80	1.2	6	●
VAPDSD0595	5.95	28.2	81.2	80	1.2	6	●
VAPDSD0600	6.00	28.2	81.2	80	1.2	6	●
VAPDSD0605	6.05	31.3	81.3	80	1.3	8	●
VAPDSD0610	6.10	31.3	81.3	80	1.3	8	●
VAPDSD0615	6.15	31.3	81.3	80	1.3	8	●
VAPDSD0620	6.20	31.3	81.3	80	1.3	8	●
VAPDSD0625	6.25	31.3	81.3	80	1.3	8	●
VAPDSD0630	6.30	31.3	81.3	80	1.3	8	●
VAPDSD0635	6.35	31.3	81.3	80	1.3	8	●
VAPDSD0640	6.40	31.3	81.3	80	1.3	8	●
VAPDSD0645	6.45	31.3	81.3	80	1.3	8	●
VAPDSD0650	6.50	31.4	81.4	80	1.4	8	●
VAPDSD0655	6.55	31.4	81.4	80	1.4	8	●
VAPDSD0660	6.60	31.4	81.4	80	1.4	8	●
VAPDSD0665	6.65	31.4	81.4	80	1.4	8	●
VAPDSD0670	6.70	31.4	81.4	80	1.4	8	●
VAPDSD0675	6.75	33.4	81.4	80	1.4	8	●
VAPDSD0680	6.80	33.4	81.4	80	1.4	8	●
VAPDSD0685	6.85	33.4	81.4	80	1.4	8	●
VAPDSD0690	6.90	33.4	81.4	80	1.4	8	●
VAPDSD0695	6.95	33.4	81.4	80	1.4	8	●
VAPDSD0700	7.00	33.5	81.5	80	1.5	8	●
VAPDSD0705	7.05	33.5	81.5	80	1.5	8	●
VAPDSD0710	7.10	33.5	81.5	80	1.5	8	●
VAPDSD0715	7.15	33.5	81.5	80	1.5	8	●
VAPDSD0720	7.20	33.5	81.5	80	1.5	8	●
VAPDSD0725	7.25	33.5	81.5	80	1.5	8	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD0730	7.30	33.5	81.5	80	1.5	8	●
VAPDSD0735	7.35	33.5	81.5	80	1.5	8	●
VAPDSD0740	7.40	33.5	81.5	80	1.5	8	●
VAPDSD0745	7.45	33.5	81.5	80	1.5	8	●
VAPDSD0750	7.50	33.6	81.6	80	1.6	8	●
VAPDSD0755	7.55	36.6	86.6	85	1.6	8	●
VAPDSD0760	7.60	36.6	86.6	85	1.6	8	●
VAPDSD0765	7.65	36.6	86.6	85	1.6	8	●
VAPDSD0770	7.70	36.6	86.6	85	1.6	8	●
VAPDSD0775	7.75	36.6	86.6	85	1.6	8	●
VAPDSD0780	7.80	36.6	86.6	85	1.6	8	●
VAPDSD0785	7.85	36.6	86.6	85	1.6	8	●
VAPDSD0790	7.90	36.6	86.6	85	1.6	8	●
VAPDSD0795	7.95	36.7	86.7	85	1.7	8	●
VAPDSD0800	8.00	36.7	86.7	85	1.7	8	●
VAPDSD0805	8.05	36.7	91.7	90	1.7	10	●
VAPDSD0810	8.10	36.7	91.7	90	1.7	10	●
VAPDSD0815	8.15	36.7	91.7	90	1.7	10	●
VAPDSD0820	8.20	36.7	91.7	90	1.7	10	●
VAPDSD0825	8.25	36.7	91.7	90	1.7	10	●
VAPDSD0830	8.30	36.7	91.7	90	1.7	10	●
VAPDSD0835	8.35	36.7	91.7	90	1.7	10	●
VAPDSD0840	8.40	36.7	91.7	90	1.7	10	●
VAPDSD0845	8.45	36.8	91.8	90	1.8	10	●
VAPDSD0850	8.50	36.8	91.8	90	1.8	10	●
VAPDSD0855	8.55	39.8	94.8	93	1.8	10	●
VAPDSD0860	8.60	39.8	94.8	93	1.8	10	●
VAPDSD0865	8.65	39.8	94.8	93	1.8	10	●
VAPDSD0870	8.70	39.8	94.8	93	1.8	10	●
VAPDSD0875	8.75	39.8	94.8	93	1.8	10	●
VAPDSD0880	8.80	39.8	94.8	93	1.8	10	●
VAPDSD0885	8.85	39.8	94.8	93	1.8	10	●
VAPDSD0890	8.90	39.8	94.8	93	1.8	10	●
VAPDSD0895	8.95	39.9	94.9	93	1.9	10	●
VAPDSD0900	9.00	39.9	94.9	93	1.9	10	●
VAPDSD0910	9.10	39.9	94.9	93	1.9	10	●
VAPDSD0920	9.20	39.9	94.9	93	1.9	10	●
VAPDSD0930	9.30	39.9	94.9	93	1.9	10	●
VAPDSD0940	9.40	40.0	95.0	93	2.0	10	●
VAPDSD0950	9.50	40.0	95.0	93	2.0	10	●
VAPDSD0960	9.60	43.0	98.0	96	2.0	10	●
VAPDSD0970	9.70	43.0	98.0	96	2.0	10	●
VAPDSD0980	9.80	43.0	98.0	96	2.0	10	●
VAPDSD0990	9.90	43.1	98.1	96	2.1	10	●
VAPDSD1000	10.00	43.1	98.1	96	2.1	10	●
VAPDSD1010	10.10	43.1	103.1	101	2.1	12	●
VAPDSD1020	10.20	43.1	103.1	101	2.1	12	●
VAPDSD1030	10.30	43.1	103.1	101	2.1	12	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSD1040	10.40	43.2	103.2	101	2.2	12	●
VAPDSD1050	10.50	43.2	103.2	101	2.2	12	●
VAPDSD1060	10.60	43.2	103.2	101	2.2	12	●
VAPDSD1070	10.70	47.2	107.2	105	2.2	12	●
VAPDSD1080	10.80	47.2	107.2	105	2.2	12	●
VAPDSD1090	10.90	47.3	107.3	105	2.3	12	●
VAPDSD1100	11.00	47.3	107.3	105	2.3	12	●
VAPDSD1110	11.10	47.3	107.3	105	2.3	12	●
VAPDSD1120	11.20	47.3	107.3	105	2.3	12	●
VAPDSD1130	11.30	47.3	107.3	105	2.3	12	●
VAPDSD1140	11.40	47.4	107.4	105	2.4	12	●
VAPDSD1150	11.50	47.4	107.4	105	2.4	12	●
VAPDSD1160	11.60	47.4	107.4	105	2.4	12	●
VAPDSD1170	11.70	47.4	107.4	105	2.4	12	●
VAPDSD1180	11.80	47.4	107.4	105	2.4	12	●
VAPDSD1190	11.90	51.5	111.5	109	2.5	12	●
VAPDSD1200	12.0	51.5	111.5	109	2.5	12	●
VAPDSD1210	12.1	51.5	111.5	109	2.5	12	●
VAPDSD1220	12.2	51.5	111.5	109	2.5	12	●
VAPDSD1230	12.3	51.6	111.6	109	2.6	12	●
VAPDSD1240	12.4	51.6	111.6	109	2.6	12	●
VAPDSD1250	12.5	51.6	111.6	109	2.6	12	●
VAPDSD1260	12.6	51.6	111.6	109	2.6	12	●
VAPDSD1270	12.7	51.6	111.6	109	2.6	12	●
VAPDSD1280	12.8	51.7	111.7	109	2.7	12	●
VAPDSD1290	12.9	51.7	111.7	109	2.7	12	●
VAPDSD1300	13.0	51.7	111.7	109	2.7	12	●

推荐切削条件

工件材料	结构钢		碳钢、合金钢、铸铁		合金工具钢（未处理材料）、 铁素体类不锈钢、 马氏体类不锈钢		合金工具钢（—HRC40） 析出硬化类不锈钢	
	SS400		S50C、SCM、FC		SKD11、SUS430、405、 SUS420、440		SKD61、SUS630、631	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
0.5	18000	0.02	16000	0.02	9000	0.02	8200	0.02
1.0	12000	0.05	10000	0.05	6300	0.05	5500	0.04
2.0	6400	0.09	5500	0.09	3200	0.09	2900	0.05
3.0	4300	0.13	3700	0.13	2100	0.13	1900	0.06
4.0	3200	0.15	2800	0.15	1600	0.15	1400	0.08
5.0	2600	0.18	2200	0.18	1300	0.18	1100	0.10
6.0	2100	0.19	1800	0.19	1100	0.20	950	0.11
8.0	1600	0.24	1400	0.24	800	0.22	720	0.13
10.0	1300	0.28	1100	0.28	640	0.25	570	0.15
12.0	1100	0.34	930	0.34	530	0.30	480	0.17
13.0	980	0.36	860	0.36	490	0.32	440	0.19

注1) 工件安装刚性差时,或机床条件有限制时,按照其情况,应降低进给量和转速。

注2) 请使用弹簧筒夹式钻夹头和铣夹头。

注3) 应使用足量的切削液。

注4) 钻削奥氏体类不锈钢(SUS304、309、310等),推荐使用VAPDSSUS型钻头。

注5) 孔深超过 $DC \times 4$ 时,请采用步进方式加工。

注6) 上述切削条件是使用水溶性切削液的标准情况。

若使用非水溶性切削液,请降低转速。

VAPDM

VIOLET 涂层高精度钻头(M)

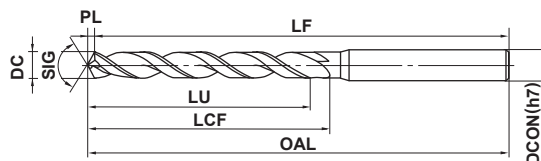


DC<2

DC≥2

高速钢

P	M	K	N	S	H
钢	不锈钢	铸铁			



※LU = LCF-2DC (Max 5×DC)



0.5≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤30	30<DC≤32
0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033	0 -0.039

●VIOLET涂层钻头的钻削效率高，钻头寿命长。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMD0050	0.50	6.2	50.2	50	0.15	3	●
VAPDMD0055	0.55	6.2	50.2	50	0.17	3	●
VAPDMD0060	0.60	8.2	50.2	50	0.18	3	●
VAPDMD0065	0.65	8.2	50.2	50	0.20	3	●
VAPDMD0070	0.70	10.2	50.2	50	0.21	3	●
VAPDMD0075	0.75	10.2	50.2	50	0.23	3	●
VAPDMD0080	0.80	10.2	50.2	50	0.24	3	●
VAPDMD0085	0.85	10.3	50.3	50	0.26	3	●
VAPDMD0090	0.90	12.3	50.3	50	0.27	3	●
VAPDMD0095	0.95	12.3	50.3	50	0.29	3	●
VAPDMD0100	1.00	12.3	60.3	60	0.3	3	●
VAPDMD0105	1.05	12.3	60.3	60	0.3	3	●
VAPDMD0110	1.10	16.3	60.3	60	0.3	3	●
VAPDMD0115	1.15	16.4	60.4	60	0.4	3	●
VAPDMD0120	1.20	16.4	60.4	60	0.4	3	●
VAPDMD0125	1.25	16.4	60.4	60	0.4	3	●
VAPDMD0130	1.30	16.4	60.4	60	0.4	3	●
VAPDMD0135	1.35	18.4	60.4	60	0.4	3	●
VAPDMD0140	1.40	18.4	60.4	60	0.4	3	●
VAPDMD0145	1.45	18.4	60.4	60	0.4	3	●
VAPDMD0150	1.50	18.5	60.5	60	0.5	3	●
VAPDMD0155	1.55	20.5	60.5	60	0.5	3	●
VAPDMD0160	1.60	20.5	60.5	60	0.5	3	●
VAPDMD0165	1.65	20.5	60.5	60	0.5	3	●
VAPDMD0170	1.70	20.5	60.5	60	0.5	3	●
VAPDMD0175	1.75	20.5	60.5	60	0.5	3	●
VAPDMD0180	1.80	22.5	60.5	60	0.5	3	●
VAPDMD0185	1.85	22.6	60.6	60	0.6	3	●
VAPDMD0190	1.90	22.6	60.6	60	0.6	3	●
VAPDMD0195	1.95	23.6	60.6	60	0.6	3	●
VAPDMD0200	2.00	23.4	70.4	70	0.4	3	●
VAPDMD0205	2.05	23.4	70.4	70	0.4	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMD0210	2.10	23.4	70.4	70	0.4	3	●
VAPDMD0215	2.15	23.5	70.5	70	0.5	3	●
VAPDMD0220	2.20	26.5	70.5	70	0.5	3	●
VAPDMD0225	2.25	26.5	70.5	70	0.5	3	●
VAPDMD0230	2.30	26.5	70.5	70	0.5	3	●
VAPDMD0235	2.35	26.5	70.5	70	0.5	3	●
VAPDMD0240	2.40	29.5	70.5	70	0.5	3	●
VAPDMD0245	2.45	29.5	70.5	70	0.5	3	●
VAPDMD0250	2.50	29.5	70.5	70	0.5	3	●
VAPDMD0255	2.55	29.5	70.5	70	0.5	3	●
VAPDMD0260	2.60	29.5	70.5	70	0.5	3	●
VAPDMD0265	2.65	29.6	70.6	70	0.6	3	●
VAPDMD0270	2.70	32.6	70.6	70	0.6	3	●
VAPDMD0275	2.75	32.6	70.6	70	0.6	3	●
VAPDMD0280	2.80	32.6	70.6	70	0.6	3	●
VAPDMD0285	2.85	32.6	70.6	70	0.6	3	●
VAPDMD0290	2.90	32.6	70.6	70	0.6	3	●
VAPDMD0295	2.95	32.6	70.6	70	0.6	3	●
VAPDMD0300	3.00	32.6	70.6	70	0.6	3	●
VAPDMD0305	3.05	35.6	85.6	85	0.6	4	●
VAPDMD0310	3.10	35.6	85.6	85	0.6	4	●
VAPDMD0315	3.15	35.7	85.7	85	0.7	4	●
VAPDMD0320	3.20	35.7	85.7	85	0.7	4	●
VAPDMD0325	3.25	35.7	85.7	85	0.7	4	●
VAPDMD0330	3.30	35.7	85.7	85	0.7	4	●
VAPDMD0335	3.35	35.7	85.7	85	0.7	4	●
VAPDMD0340	3.40	38.7	85.7	85	0.7	4	●
VAPDMD0345	3.45	38.7	85.7	85	0.7	4	●
VAPDMD0350	3.50	38.7	85.7	85	0.7	4	●
VAPDMD0355	3.55	38.7	85.7	85	0.7	4	●
VAPDMD0360	3.60	38.8	85.8	85	0.8	4	●
VAPDMD0365	3.65	38.8	85.8	85	0.8	4	●

P

钻头

●：标准库存品

切削条件 > P152
技术资料 > R001

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMD0370	3.70	38.8	85.8	85	0.8	4	●
VAPDMD0375	3.75	42.8	85.8	85	0.8	4	●
VAPDMD0380	3.80	42.8	85.8	85	0.8	4	●
VAPDMD0385	3.85	42.8	85.8	85	0.8	4	●
VAPDMD0390	3.90	42.8	85.8	85	0.8	4	●
VAPDMD0395	3.95	42.8	85.8	85	0.8	4	●
VAPDMD0400	4.00	42.8	85.8	85	0.8	4	●
VAPDMD0405	4.05	42.8	100.8	100	0.8	6	●
VAPDMD0410	4.10	42.9	100.9	100	0.9	6	●
VAPDMD0415	4.15	42.9	100.9	100	0.9	6	●
VAPDMD0420	4.20	42.9	100.9	100	0.9	6	●
VAPDMD0425	4.25	46.9	100.9	100	0.9	6	●
VAPDMD0430	4.30	46.9	100.9	100	0.9	6	●
VAPDMD0435	4.35	46.9	100.9	100	0.9	6	●
VAPDMD0440	4.40	46.9	100.9	100	0.9	6	●
VAPDMD0445	4.45	46.9	100.9	100	0.9	6	●
VAPDMD0450	4.50	46.9	100.9	100	0.9	6	●
VAPDMD0455	4.55	46.9	100.9	100	0.9	6	●
VAPDMD0460	4.60	47.0	101.0	100	1.0	6	●
VAPDMD0465	4.65	47.0	101.0	100	1.0	6	●
VAPDMD0470	4.70	47.0	101.0	100	1.0	6	●
VAPDMD0475	4.75	47.0	101.0	100	1.0	6	●
VAPDMD0480	4.80	52.0	101.0	100	1.0	6	●
VAPDMD0485	4.85	52.0	101.0	100	1.0	6	●
VAPDMD0490	4.90	52.0	101.0	100	1.0	6	●
VAPDMD0495	4.95	52.0	101.0	100	1.0	6	●
VAPDMD0500	5.00	52.0	101.0	100	1.0	6	●
VAPDMD0505	5.05	52.1	101.1	100	1.1	6	●
VAPDMD0510	5.10	52.1	101.1	100	1.1	6	●
VAPDMD0515	5.15	52.1	101.1	100	1.1	6	●
VAPDMD0520	5.20	52.1	101.1	100	1.1	6	●
VAPDMD0525	5.25	52.1	101.1	100	1.1	6	●
VAPDMD0530	5.30	52.1	101.1	100	1.1	6	●
VAPDMD0535	5.35	57.1	107.1	106	1.1	6	●
VAPDMD0540	5.40	57.1	107.1	106	1.1	6	●
VAPDMD0545	5.45	57.1	107.1	106	1.1	6	●
VAPDMD0550	5.50	57.1	107.1	106	1.1	6	●
VAPDMD0555	5.55	57.2	107.2	106	1.2	6	●
VAPDMD0560	5.60	57.2	107.2	106	1.2	6	●
VAPDMD0565	5.65	57.2	107.2	106	1.2	6	●
VAPDMD0570	5.70	57.2	107.2	106	1.2	6	●
VAPDMD0575	5.75	57.2	107.2	106	1.2	6	●
VAPDMD0580	5.80	57.2	107.2	106	1.2	6	●
VAPDMD0585	5.85	57.2	107.2	106	1.2	6	●
VAPDMD0590	5.90	57.2	107.2	106	1.2	6	●
VAPDMD0595	5.95	57.2	107.2	106	1.2	6	●
VAPDMD0600	6.00	57.2	107.2	106	1.2	6	●
VAPDMD0605	6.05	63.3	113.3	112	1.3	8	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMD0610	6.10	63.3	113.3	112	1.3	8	●
VAPDMD0615	6.15	63.3	113.3	112	1.3	8	●
VAPDMD0620	6.20	63.3	113.3	112	1.3	8	●
VAPDMD0625	6.25	63.3	113.3	112	1.3	8	●
VAPDMD0630	6.30	63.3	113.3	112	1.3	8	●
VAPDMD0635	6.35	63.3	113.3	112	1.3	8	●
VAPDMD0640	6.40	63.3	113.3	112	1.3	8	●
VAPDMD0645	6.45	63.3	113.3	112	1.3	8	●
VAPDMD0650	6.50	63.4	113.4	112	1.4	8	●
VAPDMD0655	6.55	63.4	113.4	112	1.4	8	●
VAPDMD0660	6.60	63.4	113.4	112	1.4	8	●
VAPDMD0665	6.65	63.4	113.4	112	1.4	8	●
VAPDMD0670	6.70	63.4	113.4	112	1.4	8	●
VAPDMD0675	6.75	68.4	118.4	117	1.4	8	●
VAPDMD0680	6.80	68.4	118.4	117	1.4	8	●
VAPDMD0685	6.85	68.4	118.4	117	1.4	8	●
VAPDMD0690	6.90	68.4	118.4	117	1.4	8	●
VAPDMD0695	6.95	68.4	118.4	117	1.4	8	●
VAPDMD0700	7.00	68.5	118.5	117	1.5	8	●
VAPDMD0705	7.05	68.5	118.5	117	1.5	8	●
VAPDMD0710	7.10	68.5	118.5	117	1.5	8	●
VAPDMD0715	7.15	68.5	118.5	117	1.5	8	●
VAPDMD0720	7.20	68.5	118.5	117	1.5	8	●
VAPDMD0725	7.25	68.5	118.5	117	1.5	8	●
VAPDMD0730	7.30	68.5	118.5	117	1.5	8	●
VAPDMD0735	7.35	68.5	118.5	117	1.5	8	●
VAPDMD0740	7.40	68.5	118.5	117	1.5	8	●
VAPDMD0745	7.45	68.5	118.5	117	1.5	8	●
VAPDMD0750	7.50	68.6	118.6	117	1.6	8	●
VAPDMD0755	7.55	74.6	124.6	123	1.6	8	●
VAPDMD0760	7.60	74.6	124.6	123	1.6	8	●
VAPDMD0765	7.65	74.6	124.6	123	1.6	8	●
VAPDMD0770	7.70	74.6	124.6	123	1.6	8	●
VAPDMD0775	7.75	74.6	124.6	123	1.6	8	●
VAPDMD0780	7.80	74.6	124.6	123	1.6	8	●
VAPDMD0785	7.85	74.6	124.6	123	1.6	8	●
VAPDMD0790	7.90	74.6	124.6	123	1.6	8	●
VAPDMD0795	7.95	74.7	124.7	123	1.7	8	●
VAPDMD0800	8.00	74.7	124.7	123	1.7	8	●
VAPDMD0805	8.05	74.7	129.7	128	1.7	10	●
VAPDMD0810	8.10	74.7	129.7	128	1.7	10	●
VAPDMD0815	8.15	74.7	129.7	128	1.7	10	●
VAPDMD0820	8.20	74.7	129.7	128	1.7	10	●
VAPDMD0825	8.25	74.7	129.7	128	1.7	10	●
VAPDMD0830	8.30	74.7	129.7	128	1.7	10	●
VAPDMD0835	8.35	74.7	129.7	128	1.7	10	●
VAPDMD0840	8.40	74.7	129.7	128	1.7	10	●
VAPDMD0845	8.45	74.8	129.8	128	1.8	10	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMD0850	8.50	74.8	129.8	128	1.8	10	●
VAPDMD0855	8.55	80.8	135.8	134	1.8	10	●
VAPDMD0860	8.60	80.8	135.8	134	1.8	10	●
VAPDMD0865	8.65	80.8	135.8	134	1.8	10	●
VAPDMD0870	8.70	80.8	135.8	134	1.8	10	●
VAPDMD0875	8.75	80.8	135.8	134	1.8	10	●
VAPDMD0880	8.80	80.8	135.8	134	1.8	10	●
VAPDMD0885	8.85	80.8	135.8	134	1.8	10	●
VAPDMD0890	8.90	80.8	135.8	134	1.8	10	●
VAPDMD0895	8.95	80.9	135.9	134	1.9	10	●
VAPDMD0900	9.00	80.9	135.9	134	1.9	10	●
VAPDMD0910	9.10	80.9	135.9	134	1.9	10	●
VAPDMD0920	9.20	80.9	135.9	134	1.9	10	●
VAPDMD0930	9.30	80.9	135.9	134	1.9	10	●
VAPDMD0940	9.40	81.0	136.0	134	2.0	10	●
VAPDMD0950	9.50	81.0	136.0	134	2.0	10	●
VAPDMD0960	9.60	87.0	142.0	140	2.0	10	●
VAPDMD0970	9.70	87.0	142.0	140	2.0	10	●
VAPDMD0980	9.80	87.0	142.0	140	2.0	10	●
VAPDMD0990	9.90	87.1	142.1	140	2.1	10	●
VAPDMD1000	10.0	87.1	142.1	140	2.1	10	●
VAPDMD1010	10.1	87.1	147.1	145	2.1	12	●
VAPDMD1020	10.2	87.1	147.1	145	2.1	12	●
VAPDMD1030	10.3	87.1	147.1	145	2.1	12	●
VAPDMD1040	10.4	87.2	147.2	145	2.2	12	●
VAPDMD1050	10.5	87.2	147.2	145	2.2	12	●
VAPDMD1060	10.6	87.2	147.2	145	2.2	12	●
VAPDMD1070	10.7	94.2	154.2	152	2.2	12	●
VAPDMD1080	10.8	94.2	154.2	152	2.2	12	●
VAPDMD1090	10.9	94.3	154.3	152	2.3	12	●
VAPDMD1100	11.0	94.3	154.3	152	2.3	12	●
VAPDMD1110	11.1	94.3	154.3	152	2.3	12	●
VAPDMD1120	11.2	94.3	154.3	152	2.3	12	●
VAPDMD1130	11.3	94.3	154.3	152	2.3	12	●
VAPDMD1140	11.4	94.4	154.4	152	2.4	12	●
VAPDMD1150	11.5	94.4	154.4	152	2.4	12	●
VAPDMD1160	11.6	94.4	154.4	152	2.4	12	●
VAPDMD1170	11.7	94.4	154.4	152	2.4	12	●
VAPDMD1180	11.8	94.4	154.4	152	2.4	12	●
VAPDMD1190	11.9	101.5	161.5	159	2.5	12	●
VAPDMD1200	12.0	101.5	161.5	159	2.5	12	●
VAPDMD1210	12.1	101.5	161.5	159	2.5	12	●
VAPDMD1220	12.2	101.5	161.5	159	2.5	12	●
VAPDMD1230	12.3	101.6	161.6	159	2.6	12	●
VAPDMD1240	12.4	101.6	161.6	159	2.6	12	●
VAPDMD1250	12.5	101.6	161.6	159	2.6	12	●
VAPDMD1260	12.6	101.6	161.6	159	2.6	12	●
VAPDMD1270	12.7	101.6	161.6	159	2.6	12	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMD1280	12.8	101.7	161.7	159	2.7	12	●
VAPDMD1290	12.9	101.7	161.7	159	2.7	12	●
VAPDMD1300	13.0	101.7	161.7	159	2.7	12	●
VAPDMD1350	13.5	102.8	162.8	160	2.8	16	●
VAPDMD1400	14.0	102.9	162.9	160	2.9	16	●
VAPDMD1410	14.1	107.9	167.9	165	2.9	16	●
VAPDMD1420	14.2	107.9	167.9	165	2.9	16	●
VAPDMD1450	14.5	108.0	168.0	165	3.0	16	●
VAPDMD1500	15.0	108.1	168.1	165	3.1	16	●
VAPDMD1550	15.5	113.2	173.2	170	3.2	16	●
VAPDMD1560	15.6	113.2	173.2	170	3.2	16	●
VAPDMD1570	15.7	113.3	173.3	170	3.3	16	●
VAPDMD1600	16.0	113.3	173.3	170	3.3	16	●
VAPDMD1650	16.5	113.4	178.4	175	3.4	20	●
VAPDMD1700	17.0	113.5	178.5	175	3.5	20	●
VAPDMD1750	17.5	118.6	183.6	180	3.6	20	●
VAPDMD1760	17.6	118.7	183.7	180	3.7	20	●
VAPDMD1770	17.7	118.7	183.7	180	3.7	20	●
VAPDMD1800	18.0	118.7	183.7	180	3.7	20	●
VAPDMD1850	18.5	123.8	188.8	185	3.8	20	●
VAPDMD1900	19.0	123.9	188.9	185	3.9	20	●
VAPDMD1950	19.5	124.0	189.0	185	4.0	20	●
VAPDMD1960	19.6	124.1	189.1	185	4.1	20	●
VAPDMD1970	19.7	124.1	189.1	185	4.1	20	●
VAPDMD2000	20.0	124.1	189.1	185	4.1	20	●
VAPDMD2050	20.5	129.3	204.3	200	4.3	25	●
VAPDMD2100	21.0	129.4	204.4	200	4.4	25	●
VAPDMD2110	21.1	129.4	204.4	200	4.4	25	●
VAPDMD2120	21.2	129.4	204.4	200	4.4	25	●
VAPDMD2150	21.5	129.5	204.5	200	4.5	25	●
VAPDMD2200	22.0	129.6	204.6	200	4.6	25	●
VAPDMD2250	22.5	134.7	209.7	205	4.7	25	●
VAPDMD2300	23.0	134.8	209.8	205	4.8	25	●
VAPDMD2350	23.5	134.9	209.9	205	4.9	25	●
VAPDMD2400	24.0	140.0	215.0	210	5.0	25	●
VAPDMD2450	24.5	140.1	215.1	210	5.1	25	●
VAPDMD2500	25.0	140.2	215.2	210	5.2	25	●
VAPDMD2550	25.5	145.3	225.3	220	5.3	32	●
VAPDMD2600	26.0	145.4	225.4	220	5.4	32	●
VAPDMD2650	26.5	145.5	225.5	220	5.5	32	●
VAPDMD2700	27.0	145.6	225.6	220	5.6	32	●
VAPDMD2800	28.0	145.8	225.8	220	5.8	32	●
VAPDMD2900	29.0	151.0	231.0	225	6.0	32	●
VAPDMD3000	30.0	151.2	231.2	225	6.2	32	●
VAPDMD3100	31.0	156.4	236.4	230	6.4	32	●
VAPDMD3200	32.0	161.6	241.6	235	6.6	32	●

P

钻头

推荐切削条件

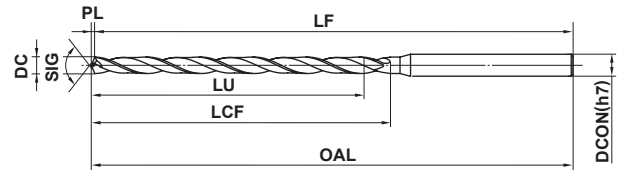
工件材料	结构钢		碳钢、合金钢、铸铁		合金工具钢（未处理材料）、 铁素体类不锈钢、 马氏体类不锈钢		合金工具钢（—HRC40） 析出硬化类不锈钢	
	SS400		S50C、SCM、FC		SKD11、SUS430、405、 SUS420、440		SKD61、SUS630、631	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
0.5	17000	0.01	12800	0.01	8000	0.01	6600	0.01
1.0	11000	0.05	8300	0.05	5000	0.05	4100	0.04
2.0	6400	0.09	4800	0.09	2900	0.06	2400	0.05
3.0	4300	0.13	3200	0.13	1900	0.10	1600	0.06
4.0	3200	0.15	2400	0.15	1400	0.10	1200	0.08
5.0	2600	0.18	1900	0.18	1100	0.13	950	0.10
6.0	2100	0.19	1600	0.20	950	0.15	800	0.11
8.0	1600	0.24	1200	0.22	720	0.18	600	0.13
10.0	1300	0.28	950	0.25	570	0.21	480	0.15
12.0	1100	0.34	800	0.30	480	0.25	400	0.17
14.0	910	0.39	680	0.35	410	0.30	340	0.21
15.0	850	0.40	640	0.36	380	0.31	320	0.22
16.0	800	0.42	600	0.38	360	0.32	300	0.23
18.0	710	0.44	530	0.40	320	0.34	270	0.24
20.0	570	0.44	450	0.40	250	0.34	220	0.24
22.0	520	0.46	410	0.42	230	0.36	200	0.25
24.0	480	0.48	370	0.44	210	0.37	190	0.26
26.0	440	0.51	340	0.46	200	0.39	170	0.28
28.0	410	0.53	320	0.48	180	0.41	160	0.29
30.0	380	0.55	300	0.50	170	0.43	150	0.30
32.0	360	0.55	280	0.50	160	0.43	140	0.30

- 注1) 工件安装刚性差时,或机床条件有限制时,按照其情况,应降低进给量和转速。
注2) 请使用弹簧筒夹式钻夹头和铣夹头。
注3) 应使用足量的切削液。
注4) 钻削奥氏体类不锈钢(SUS304、309、310等),推荐使用VAPDMSUS型钻头。
注5) 孔深超过DC×4时,请采用步进方式加工。
注6) 上述切削条件是使用水溶性切削液的标准情况。
若使用非水溶性切削液,请降低转速。



DC<2

2≤DC



$$※LU = LCF - 2DC \text{ (Max } 10 \times DC)$$



$0.5 \leq DC \leq 3$	$3 < DC \leq 6$	$6 < DC \leq 10$
$\begin{matrix} 0 \\ -0.014 \end{matrix}$	$\begin{matrix} 0 \\ -0.018 \end{matrix}$	$\begin{matrix} 0 \\ -0.022 \end{matrix}$

●同时满足刚性和排出切屑的要求，即使是L/D=10的深孔也能无台阶加工。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDJD0100	1.0	18.3	66.3	66	0.3	3	●
VAPDJD0110	1.1	22.3	66.3	66	0.3	3	●
VAPDJD0120	1.2	22.4	66.4	66	0.4	3	●
VAPDJD0130	1.3	22.4	66.4	66	0.4	3	●
VAPDJD0140	1.4	24.4	66.4	66	0.4	3	●
VAPDJD0150	1.5	24.5	66.5	66	0.5	3	●
VAPDJD0160	1.6	30.5	71.5	71	0.5	3	●
VAPDJD0170	1.7	30.5	71.5	71	0.5	3	●
VAPDJD0180	1.8	33.5	71.5	71	0.5	3	●
VAPDJD0190	1.9	33.6	71.6	71	0.6	3	●
VAPDJD0200	2.0	36.4	81.4	81	0.4	3	●
VAPDJD0210	2.1	36.4	81.4	81	0.4	3	●
VAPDJD0220	2.2	36.5	81.5	81	0.5	3	●
VAPDJD0230	2.3	36.5	81.5	81	0.5	3	●
VAPDJD0240	2.4	39.5	81.5	81	0.5	3	●
VAPDJD0250	2.5	39.5	81.5	81	0.5	3	●
VAPDJD0260	2.6	39.5	81.5	81	0.5	3	●
VAPDJD0270	2.7	45.6	81.6	81	0.6	3	●
VAPDJD0280	2.8	45.6	81.6	81	0.6	3	●
VAPDJD0290	2.9	45.6	81.6	81	0.6	3	●
VAPDJD0300	3.0	45.6	81.6	81	0.6	3	●
VAPDJD0310	3.1	51.6	102.6	102	0.6	4	●
VAPDJD0320	3.2	51.7	102.7	102	0.7	4	●
VAPDJD0330	3.3	51.7	102.7	102	0.7	4	●
VAPDJD0340	3.4	54.7	102.7	102	0.7	4	●
VAPDJD0350	3.5	54.7	102.7	102	0.7	4	●
VAPDJD0360	3.6	57.8	102.8	102	0.8	4	●
VAPDJD0370	3.7	57.8	102.8	102	0.8	4	●
VAPDJD0380	3.8	60.8	102.8	102	0.8	4	●
VAPDJD0390	3.9	60.8	102.8	102	0.8	4	●
VAPDJD0400	4.0	60.8	102.8	102	0.8	4	●
VAPDJD0410	4.1	60.9	118.9	118	0.9	6	●
VAPDJD0420	4.2	60.9	118.9	118	0.9	6	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDJD0430	4.3	66.9	118.9	118	0.9	6	●
VAPDJD0440	4.4	66.9	118.9	118	0.9	6	●
VAPDJD0450	4.5	66.9	118.9	118	0.9	6	●
VAPDJD0460	4.6	67.0	122.0	121	1.0	6	●
VAPDJD0470	4.7	67.0	122.0	121	1.0	6	●
VAPDJD0480	4.8	73.0	122.0	121	1.0	6	●
VAPDJD0490	4.9	73.0	122.0	121	1.0	6	●
VAPDJD0500	5.0	73.0	122.0	121	1.0	6	●
VAPDJD0510	5.1	73.1	122.1	121	1.1	6	●
VAPDJD0520	5.2	73.1	122.1	121	1.1	6	●
VAPDJD0530	5.3	73.1	122.1	121	1.1	6	●
VAPDJD0540	5.4	79.1	129.1	128	1.1	6	●
VAPDJD0550	5.5	79.1	129.1	128	1.1	6	●
VAPDJD0560	5.6	79.2	129.2	128	1.2	6	●
VAPDJD0570	5.7	79.2	129.2	128	1.2	6	●
VAPDJD0580	5.8	79.2	129.2	128	1.2	6	●
VAPDJD0590	5.9	79.2	129.2	128	1.2	6	●
VAPDJD0600	6.0	79.2	129.2	128	1.2	6	●
VAPDJD0650	6.5	85.4	135.4	134	1.4	8	●
VAPDJD0680	6.8	91.4	141.4	140	1.4	8	●
VAPDJD0690	6.9	91.4	141.4	140	1.4	8	●
VAPDJD0700	7.0	91.5	141.5	140	1.5	8	●
VAPDJD0710	7.1	91.5	141.5	140	1.5	8	●
VAPDJD0750	7.5	91.6	141.6	140	1.6	8	●
VAPDJD0780	7.8	97.6	147.6	146	1.6	8	●
VAPDJD0790	7.9	97.6	147.6	146	1.6	8	●
VAPDJD0800	8.0	97.7	147.7	146	1.7	8	●
VAPDJD0850	8.5	103.8	158.8	157	1.8	10	●
VAPDJD0860	8.6	115.8	170.8	169	1.8	10	●
VAPDJD0900	9.0	115.9	170.9	169	1.9	10	●
VAPDJD0950	9.5	116.0	171.0	169	2.0	10	●
VAPDJD0960	9.6	122.0	177.0	175	2.0	10	●
VAPDJD1000	10.0	122.1	177.1	175	2.1	10	●

●：标准库存品

VAPDJ
VIOLET 涂层高精度钻头(J)

推荐切削条件

工件材料	软钢 SS400、S10C		碳钢、合金钢 S45C、SCM440 灰铸铁 FC300		合金工具钢 SKD11（未处理材料） 铁素体类不锈钢 SUS430、405 马氏体类不锈钢 SUS420、440		合金工具钢 SKD61 （－40HRC）	
	直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)
1.0	7800	0.030	6000	0.030	3600	0.026	2400	0.018
1.2	6500	0.036	5000	0.036	3200	0.030	2000	0.022
1.6	5700	0.045	4400	0.045	2800	0.034	1760	0.024
2.0	5200	0.060	4000	0.060	2400	0.040	1600	0.030
2.5	4200	0.075	3200	0.075	1900	0.050	1280	0.037
3.2	3200	0.100	2500	0.100	1500	0.070	1000	0.050
4.0	2600	0.120	2000	0.120	1200	0.084	800	0.060
5.0	2100	0.150	1600	0.150	960	0.110	640	0.075
6.5	1600	0.180	1200	0.160	720	0.130	480	0.080
8.0	1300	0.200	1000	0.180	600	0.150	400	0.090
10.0	1000	0.240	800	0.220	480	0.180	320	0.110

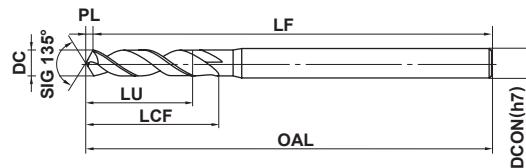
- 注1) 工件安装刚性差时,或机床条件有限制时,按照其情况,应降低进给量和转速。
- 注2) 请使用弹簧筒夹式钻夹头和铣夹头。
- 注3) 应使用足量的切削液。
- 注4) 随加工状况不同,无台阶加工有可能难于排出切屑、或发生切屑延伸等。此时,请采用有台阶加工。请把DC×1 ~ DC×3作为台阶量的大致标准。
- 注5) 上述切削条件是使用水溶性切削液的标准情况。
- 若使用非水溶性切削液,请降低转速。
- 注6) 关于本表格中没有的中间直径的旋转速度,请调整为大直径端且最近钻头直径的条件。请把最近的钻头直径作为推荐进给量的大致标准适当地设定,每次旋转的进给量。



DC ≥ 1

高速钢

P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属	耐热合金	



※LU = LCF - 2DC (Max 3×DC)



0.5 ≤ DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 18	18 < DC ≤ 20
0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033

※钻头直径小于4.0mm，直径间隔为0.1，
其他尺寸间隔为0.01；直径公差为0-0.009mm。

- 本公司独自开发的VIOLET涂层钻头，
用于钻削不锈钢效率高，钻头寿命长。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0050	0.50	3.1	50.1	50	0.10	3	●
VAPDSSUSD0051	0.51	3.1	50.1	50	0.11	3	●
VAPDSSUSD0052	0.52	3.1	50.1	50	0.11	3	●
VAPDSSUSD0053	0.53	3.1	50.1	50	0.11	3	●
VAPDSSUSD0054	0.54	3.1	50.1	50	0.11	3	●
VAPDSSUSD0055	0.55	3.1	50.1	50	0.11	3	●
VAPDSSUSD0056	0.56	4.1	50.1	50	0.12	3	●
VAPDSSUSD0057	0.57	4.1	50.1	50	0.12	3	●
VAPDSSUSD0058	0.58	4.1	50.1	50	0.12	3	●
VAPDSSUSD0059	0.59	4.1	50.1	50	0.12	3	●
VAPDSSUSD0060	0.60	5.1	50.1	50	0.12	3	●
VAPDSSUSD0061	0.61	5.1	50.1	50	0.13	3	●
VAPDSSUSD0062	0.62	5.1	50.1	50	0.13	3	●
VAPDSSUSD0063	0.63	5.1	50.1	50	0.13	3	●
VAPDSSUSD0064	0.64	5.1	50.1	50	0.13	3	●
VAPDSSUSD0065	0.65	5.1	50.1	50	0.13	3	●
VAPDSSUSD0066	0.66	5.1	50.1	50	0.14	3	●
VAPDSSUSD0067	0.67	5.1	50.1	50	0.14	3	●
VAPDSSUSD0068	0.68	5.1	50.1	50	0.14	3	●
VAPDSSUSD0069	0.69	5.1	50.1	50	0.14	3	●
VAPDSSUSD0070	0.70	5.1	50.1	50	0.14	3	●
VAPDSSUSD0071	0.71	5.2	50.2	50	0.15	3	●
VAPDSSUSD0072	0.72	5.2	50.2	50	0.15	3	●
VAPDSSUSD0073	0.73	5.2	50.2	50	0.15	3	●
VAPDSSUSD0074	0.74	5.2	50.2	50	0.15	3	●
VAPDSSUSD0075	0.75	5.2	50.2	50	0.16	3	●
VAPDSSUSD0076	0.76	5.2	50.2	50	0.16	3	●
VAPDSSUSD0077	0.77	5.2	50.2	50	0.16	3	●
VAPDSSUSD0078	0.78	5.2	50.2	50	0.16	3	●
VAPDSSUSD0079	0.79	5.2	50.2	50	0.16	3	●
VAPDSSUSD0080	0.80	5.2	50.2	50	0.17	3	●
VAPDSSUSD0081	0.81	5.2	50.2	50	0.17	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0082	0.82	5.2	50.2	50	0.17	3	●
VAPDSSUSD0083	0.83	5.2	50.2	50	0.17	3	●
VAPDSSUSD0084	0.84	5.2	50.2	50	0.17	3	●
VAPDSSUSD0085	0.85	5.2	50.2	50	0.18	3	●
VAPDSSUSD0086	0.86	6.2	50.2	50	0.18	3	●
VAPDSSUSD0087	0.87	6.2	50.2	50	0.18	3	●
VAPDSSUSD0088	0.88	6.2	50.2	50	0.18	3	●
VAPDSSUSD0089	0.89	6.2	50.2	50	0.18	3	●
VAPDSSUSD0090	0.90	6.2	50.2	50	0.19	3	●
VAPDSSUSD0091	0.91	6.2	50.2	50	0.19	3	●
VAPDSSUSD0092	0.92	6.2	50.2	50	0.19	3	●
VAPDSSUSD0093	0.93	6.2	50.2	50	0.19	3	●
VAPDSSUSD0094	0.94	6.2	50.2	50	0.19	3	●
VAPDSSUSD0095	0.95	6.2	50.2	50	0.20	3	●
VAPDSSUSD0096	0.96	6.2	50.2	50	0.20	3	●
VAPDSSUSD0097	0.97	6.2	50.2	50	0.20	3	●
VAPDSSUSD0098	0.98	6.2	50.2	50	0.20	3	●
VAPDSSUSD0099	0.99	6.2	50.2	50	0.21	3	●
VAPDSSUSD0100	1.00	6.2	50.2	50	0.2	3	●
VAPDSSUSD0101	1.01	6.2	50.2	50	0.2	3	●
VAPDSSUSD0102	1.02	6.2	50.2	50	0.2	3	●
VAPDSSUSD0103	1.03	6.2	50.2	50	0.2	3	●
VAPDSSUSD0104	1.04	6.2	50.2	50	0.2	3	●
VAPDSSUSD0105	1.05	6.2	50.2	50	0.2	3	●
VAPDSSUSD0106	1.06	6.2	50.2	50	0.2	3	●
VAPDSSUSD0107	1.07	8.2	55.2	55	0.2	3	●
VAPDSSUSD0108	1.08	8.2	55.2	55	0.2	3	●
VAPDSSUSD0109	1.09	8.2	55.2	55	0.2	3	●
VAPDSSUSD0110	1.10	8.2	55.2	55	0.2	3	●
VAPDSSUSD0111	1.11	8.2	55.2	55	0.2	3	●
VAPDSSUSD0112	1.12	8.2	55.2	55	0.2	3	●
VAPDSSUSD0113	1.13	8.2	55.2	55	0.2	3	●

P

钻头

●：标准库存品

切削条件 > P167
技术资料 > R001

VAPDSSUS

VIOLET 涂层高精度钻头，用于钻削不锈钢(S)

高速钢

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0114	1.14	8.2	55.2	55	0.2	3	●
VAPDSSUSD0115	1.15	8.2	55.2	55	0.2	3	●
VAPDSSUSD0116	1.16	8.2	55.2	55	0.2	3	●
VAPDSSUSD0117	1.17	8.2	55.2	55	0.2	3	●
VAPDSSUSD0118	1.18	8.2	55.2	55	0.2	3	●
VAPDSSUSD0119	1.19	8.3	55.3	55	0.3	3	●
VAPDSSUSD0120	1.20	8.3	55.3	55	0.3	3	●
VAPDSSUSD0121	1.21	8.3	55.3	55	0.3	3	●
VAPDSSUSD0122	1.22	8.3	55.3	55	0.3	3	●
VAPDSSUSD0123	1.23	8.3	55.3	55	0.3	3	●
VAPDSSUSD0124	1.24	8.3	55.3	55	0.3	3	●
VAPDSSUSD0125	1.25	8.3	55.3	55	0.3	3	●
VAPDSSUSD0126	1.26	8.3	55.3	55	0.3	3	●
VAPDSSUSD0127	1.27	8.3	55.3	55	0.3	3	●
VAPDSSUSD0128	1.28	8.3	55.3	55	0.3	3	●
VAPDSSUSD0129	1.29	8.3	55.3	55	0.3	3	●
VAPDSSUSD0130	1.30	9.3	55.3	55	0.3	3	●
VAPDSSUSD0131	1.31	9.3	55.3	55	0.3	3	●
VAPDSSUSD0132	1.32	9.3	55.3	55	0.3	3	●
VAPDSSUSD0133	1.33	9.3	55.3	55	0.3	3	●
VAPDSSUSD0134	1.34	9.3	55.3	55	0.3	3	●
VAPDSSUSD0135	1.35	9.3	55.3	55	0.3	3	●
VAPDSSUSD0136	1.36	9.3	55.3	55	0.3	3	●
VAPDSSUSD0137	1.37	9.3	55.3	55	0.3	3	●
VAPDSSUSD0138	1.38	9.3	55.3	55	0.3	3	●
VAPDSSUSD0139	1.39	9.3	55.3	55	0.3	3	●
VAPDSSUSD0140	1.40	9.3	55.3	55	0.3	3	●
VAPDSSUSD0141	1.41	9.3	55.3	55	0.3	3	●
VAPDSSUSD0142	1.42	9.3	55.3	55	0.3	3	●
VAPDSSUSD0143	1.43	9.3	55.3	55	0.3	3	●
VAPDSSUSD0144	1.44	9.3	55.3	55	0.3	3	●
VAPDSSUSD0145	1.45	9.3	55.3	55	0.3	3	●
VAPDSSUSD0146	1.46	9.3	55.3	55	0.3	3	●
VAPDSSUSD0147	1.47	9.3	55.3	55	0.3	3	●
VAPDSSUSD0148	1.48	9.3	55.3	55	0.3	3	●
VAPDSSUSD0149	1.49	9.3	55.3	55	0.3	3	●
VAPDSSUSD0150	1.50	9.3	55.3	55	0.3	3	●
VAPDSSUSD0151	1.51	11.3	55.3	55	0.3	3	●
VAPDSSUSD0152	1.52	11.3	55.3	55	0.3	3	●
VAPDSSUSD0153	1.53	11.3	55.3	55	0.3	3	●
VAPDSSUSD0154	1.54	11.3	55.3	55	0.3	3	●
VAPDSSUSD0155	1.55	11.3	55.3	55	0.3	3	●
VAPDSSUSD0156	1.56	11.3	55.3	55	0.3	3	●
VAPDSSUSD0157	1.57	11.3	55.3	55	0.3	3	●
VAPDSSUSD0158	1.58	11.3	55.3	55	0.3	3	●
VAPDSSUSD0159	1.59	11.3	55.3	55	0.3	3	●
VAPDSSUSD0160	1.60	11.3	55.3	55	0.3	3	●
VAPDSSUSD0161	1.61	11.3	55.3	55	0.3	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0162	1.62	11.3	55.3	55	0.3	3	●
VAPDSSUSD0163	1.63	11.3	55.3	55	0.3	3	●
VAPDSSUSD0164	1.64	11.3	55.3	55	0.3	3	●
VAPDSSUSD0165	1.65	11.3	55.3	55	0.3	3	●
VAPDSSUSD0166	1.66	11.3	55.3	55	0.3	3	●
VAPDSSUSD0167	1.67	11.4	55.4	55	0.4	3	●
VAPDSSUSD0168	1.68	11.4	55.4	55	0.4	3	●
VAPDSSUSD0169	1.69	11.4	55.4	55	0.4	3	●
VAPDSSUSD0170	1.70	11.4	55.4	55	0.4	3	●
VAPDSSUSD0171	1.71	11.4	55.4	55	0.4	3	●
VAPDSSUSD0172	1.72	11.4	55.4	55	0.4	3	●
VAPDSSUSD0173	1.73	11.4	55.4	55	0.4	3	●
VAPDSSUSD0174	1.74	11.4	55.4	55	0.4	3	●
VAPDSSUSD0175	1.75	11.4	55.4	55	0.4	3	●
VAPDSSUSD0176	1.76	11.4	55.4	55	0.4	3	●
VAPDSSUSD0177	1.77	11.4	55.4	55	0.4	3	●
VAPDSSUSD0178	1.78	11.4	55.4	55	0.4	3	●
VAPDSSUSD0179	1.79	11.4	55.4	55	0.4	3	●
VAPDSSUSD0180	1.80	11.4	55.4	55	0.4	3	●
VAPDSSUSD0181	1.81	11.4	55.4	55	0.4	3	●
VAPDSSUSD0182	1.82	11.4	55.4	55	0.4	3	●
VAPDSSUSD0183	1.83	11.4	55.4	55	0.4	3	●
VAPDSSUSD0184	1.84	11.4	55.4	55	0.4	3	●
VAPDSSUSD0185	1.85	11.4	55.4	55	0.4	3	●
VAPDSSUSD0186	1.86	11.4	55.4	55	0.4	3	●
VAPDSSUSD0187	1.87	11.4	55.4	55	0.4	3	●
VAPDSSUSD0188	1.88	11.4	55.4	55	0.4	3	●
VAPDSSUSD0189	1.89	11.4	55.4	55	0.4	3	●
VAPDSSUSD0190	1.90	12.4	55.4	55	0.4	3	●
VAPDSSUSD0191	1.91	12.4	60.4	60	0.4	3	●
VAPDSSUSD0192	1.92	12.4	60.4	60	0.4	3	●
VAPDSSUSD0193	1.93	12.4	60.4	60	0.4	3	●
VAPDSSUSD0194	1.94	12.4	60.4	60	0.4	3	●
VAPDSSUSD0195	1.95	12.4	60.4	60	0.4	3	●
VAPDSSUSD0196	1.96	12.4	60.4	60	0.4	3	●
VAPDSSUSD0197	1.97	12.4	60.4	60	0.4	3	●
VAPDSSUSD0198	1.98	12.4	60.4	60	0.4	3	●
VAPDSSUSD0199	1.99	12.4	60.4	60	0.4	3	●
VAPDSSUSD0200	2.00	12.4	60.4	60	0.4	3	●
VAPDSSUSD0201	2.01	12.4	60.4	60	0.4	3	●
VAPDSSUSD0202	2.02	12.4	60.4	60	0.4	3	●
VAPDSSUSD0203	2.03	12.4	60.4	60	0.4	3	●
VAPDSSUSD0204	2.04	12.4	60.4	60	0.4	3	●
VAPDSSUSD0205	2.05	12.4	60.4	60	0.4	3	●
VAPDSSUSD0206	2.06	12.4	60.4	60	0.4	3	●
VAPDSSUSD0207	2.07	12.4	60.4	60	0.4	3	●
VAPDSSUSD0208	2.08	12.4	60.4	60	0.4	3	●
VAPDSSUSD0209	2.09	12.4	60.4	60	0.4	3	●

P
钻头

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0210	2.10	12.4	60.4	60	0.4	3	●
VAPDSSUSD0211	2.11	12.4	60.4	60	0.4	3	●
VAPDSSUSD0212	2.12	12.4	60.4	60	0.4	3	●
VAPDSSUSD0213	2.13	12.4	60.4	60	0.4	3	●
VAPDSSUSD0214	2.14	12.4	60.4	60	0.4	3	●
VAPDSSUSD0215	2.15	12.5	60.5	60	0.5	3	●
VAPDSSUSD0216	2.16	12.5	60.5	60	0.5	3	●
VAPDSSUSD0217	2.17	12.5	60.5	60	0.5	3	●
VAPDSSUSD0218	2.18	12.5	60.5	60	0.5	3	●
VAPDSSUSD0219	2.19	12.5	60.5	60	0.5	3	●
VAPDSSUSD0220	2.20	12.5	60.5	60	0.5	3	●
VAPDSSUSD0221	2.21	12.5	60.5	60	0.5	3	●
VAPDSSUSD0222	2.22	12.5	60.5	60	0.5	3	●
VAPDSSUSD0223	2.23	12.5	60.5	60	0.5	3	●
VAPDSSUSD0224	2.24	12.5	60.5	60	0.5	3	●
VAPDSSUSD0225	2.25	12.5	60.5	60	0.5	3	●
VAPDSSUSD0226	2.26	12.5	60.5	60	0.5	3	●
VAPDSSUSD0227	2.27	12.5	60.5	60	0.5	3	●
VAPDSSUSD0228	2.28	12.5	60.5	60	0.5	3	●
VAPDSSUSD0229	2.29	12.5	60.5	60	0.5	3	●
VAPDSSUSD0230	2.30	13.5	60.5	60	0.5	3	●
VAPDSSUSD0231	2.31	13.5	60.5	60	0.5	3	●
VAPDSSUSD0232	2.32	13.5	60.5	60	0.5	3	●
VAPDSSUSD0233	2.33	13.5	60.5	60	0.5	3	●
VAPDSSUSD0234	2.34	13.5	60.5	60	0.5	3	●
VAPDSSUSD0235	2.35	13.5	60.5	60	0.5	3	●
VAPDSSUSD0236	2.36	13.5	60.5	60	0.5	3	●
VAPDSSUSD0237	2.37	13.5	60.5	60	0.5	3	●
VAPDSSUSD0238	2.38	13.5	60.5	60	0.5	3	●
VAPDSSUSD0239	2.39	13.5	60.5	60	0.5	3	●
VAPDSSUSD0240	2.40	13.5	60.5	60	0.5	3	●
VAPDSSUSD0241	2.41	13.5	60.5	60	0.5	3	●
VAPDSSUSD0242	2.42	13.5	60.5	60	0.5	3	●
VAPDSSUSD0243	2.43	13.5	60.5	60	0.5	3	●
VAPDSSUSD0244	2.44	13.5	60.5	60	0.5	3	●
VAPDSSUSD0245	2.45	13.5	60.5	60	0.5	3	●
VAPDSSUSD0246	2.46	13.5	60.5	60	0.5	3	●
VAPDSSUSD0247	2.47	13.5	60.5	60	0.5	3	●
VAPDSSUSD0248	2.48	13.5	60.5	60	0.5	3	●
VAPDSSUSD0249	2.49	13.5	60.5	60	0.5	3	●
VAPDSSUSD0250	2.50	13.5	60.5	60	0.5	3	●
VAPDSSUSD0251	2.51	13.5	60.5	60	0.5	3	●
VAPDSSUSD0252	2.52	13.5	60.5	60	0.5	3	●
VAPDSSUSD0253	2.53	13.5	60.5	60	0.5	3	●
VAPDSSUSD0254	2.54	13.5	60.5	60	0.5	3	●
VAPDSSUSD0255	2.55	13.5	60.5	60	0.5	3	●
VAPDSSUSD0256	2.56	13.5	60.5	60	0.5	3	●
VAPDSSUSD0257	2.57	13.5	60.5	60	0.5	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0258	2.58	13.5	60.5	60	0.5	3	●
VAPDSSUSD0259	2.59	13.5	60.5	60	0.5	3	●
VAPDSSUSD0260	2.60	15.5	60.5	60	0.5	3	●
VAPDSSUSD0261	2.61	15.5	60.5	60	0.5	3	●
VAPDSSUSD0262	2.62	15.5	60.5	60	0.5	3	●
VAPDSSUSD0263	2.63	15.5	60.5	60	0.5	3	●
VAPDSSUSD0264	2.64	15.6	60.6	60	0.6	3	●
VAPDSSUSD0265	2.65	15.6	60.6	60	0.6	3	●
VAPDSSUSD0266	2.66	15.6	60.6	60	0.6	3	●
VAPDSSUSD0267	2.67	15.6	60.6	60	0.6	3	●
VAPDSSUSD0268	2.68	15.6	60.6	60	0.6	3	●
VAPDSSUSD0269	2.69	15.6	60.6	60	0.6	3	●
VAPDSSUSD0270	2.70	15.6	60.6	60	0.6	3	●
VAPDSSUSD0271	2.71	15.6	60.6	60	0.6	3	●
VAPDSSUSD0272	2.72	15.6	60.6	60	0.6	3	●
VAPDSSUSD0273	2.73	15.6	60.6	60	0.6	3	●
VAPDSSUSD0274	2.74	15.6	60.6	60	0.6	3	●
VAPDSSUSD0275	2.75	15.6	60.6	60	0.6	3	●
VAPDSSUSD0276	2.76	15.6	60.6	60	0.6	3	●
VAPDSSUSD0277	2.77	15.6	60.6	60	0.6	3	●
VAPDSSUSD0278	2.78	15.6	60.6	60	0.6	3	●
VAPDSSUSD0279	2.79	15.6	60.6	60	0.6	3	●
VAPDSSUSD0280	2.80	15.6	60.6	60	0.6	3	●
VAPDSSUSD0281	2.81	15.6	60.6	60	0.6	3	●
VAPDSSUSD0282	2.82	15.6	60.6	60	0.6	3	●
VAPDSSUSD0283	2.83	15.6	60.6	60	0.6	3	●
VAPDSSUSD0284	2.84	15.6	60.6	60	0.6	3	●
VAPDSSUSD0285	2.85	15.6	60.6	60	0.6	3	●
VAPDSSUSD0286	2.86	15.6	60.6	60	0.6	3	●
VAPDSSUSD0287	2.87	15.6	60.6	60	0.6	3	●
VAPDSSUSD0288	2.88	15.6	60.6	60	0.6	3	●
VAPDSSUSD0289	2.89	15.6	60.6	60	0.6	3	●
VAPDSSUSD0290	2.90	15.6	60.6	60	0.6	3	●
VAPDSSUSD0291	2.91	15.6	60.6	60	0.6	3	●
VAPDSSUSD0292	2.92	15.6	60.6	60	0.6	3	●
VAPDSSUSD0293	2.93	15.6	60.6	60	0.6	3	●
VAPDSSUSD0294	2.94	15.6	60.6	60	0.6	3	●
VAPDSSUSD0295	2.95	15.6	60.6	60	0.6	3	●
VAPDSSUSD0296	2.96	15.6	60.6	60	0.6	3	●
VAPDSSUSD0297	2.97	15.6	60.6	60	0.6	3	●
VAPDSSUSD0298	2.98	15.6	60.6	60	0.6	3	●
VAPDSSUSD0299	2.99	15.6	60.6	60	0.6	3	●
VAPDSSUSD0300	3.00	15.6	60.6	60	0.6	3	●
VAPDSSUSD0301	3.01	17.6	70.6	70	0.6	4	●
VAPDSSUSD0302	3.02	17.6	70.6	70	0.6	4	●
VAPDSSUSD0303	3.03	17.6	70.6	70	0.6	4	●
VAPDSSUSD0304	3.04	17.6	70.6	70	0.6	4	●
VAPDSSUSD0305	3.05	17.6	70.6	70	0.6	4	●

P

钻头

VAPDSSUS

VIOLET 涂层高精度钻头，用于钻削不锈钢(S)

高速钢

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0306	3.06	17.6	70.6	70	0.6	4	●
VAPDSSUSD0307	3.07	17.6	70.6	70	0.6	4	●
VAPDSSUSD0308	3.08	17.6	70.6	70	0.6	4	●
VAPDSSUSD0309	3.09	17.6	70.6	70	0.6	4	●
VAPDSSUSD0310	3.10	17.6	70.6	70	0.6	4	●
VAPDSSUSD0311	3.11	17.6	70.6	70	0.6	4	●
VAPDSSUSD0312	3.12	17.7	70.7	70	0.7	4	●
VAPDSSUSD0313	3.13	17.7	70.7	70	0.7	4	●
VAPDSSUSD0314	3.14	17.7	70.7	70	0.7	4	●
VAPDSSUSD0315	3.15	17.7	70.7	70	0.7	4	●
VAPDSSUSD0316	3.16	17.7	70.7	70	0.7	4	●
VAPDSSUSD0317	3.17	17.7	70.7	70	0.7	4	●
VAPDSSUSD0318	3.18	17.7	70.7	70	0.7	4	●
VAPDSSUSD0319	3.19	17.7	70.7	70	0.7	4	●
VAPDSSUSD0320	3.20	17.7	70.7	70	0.7	4	●
VAPDSSUSD0321	3.21	17.7	70.7	70	0.7	4	●
VAPDSSUSD0322	3.22	17.7	70.7	70	0.7	4	●
VAPDSSUSD0323	3.23	17.7	70.7	70	0.7	4	●
VAPDSSUSD0324	3.24	17.7	70.7	70	0.7	4	●
VAPDSSUSD0325	3.25	17.7	70.7	70	0.7	4	●
VAPDSSUSD0326	3.26	17.7	70.7	70	0.7	4	●
VAPDSSUSD0327	3.27	17.7	70.7	70	0.7	4	●
VAPDSSUSD0328	3.28	17.7	70.7	70	0.7	4	●
VAPDSSUSD0329	3.29	17.7	70.7	70	0.7	4	●
VAPDSSUSD0330	3.30	19.7	70.7	70	0.7	4	●
VAPDSSUSD0331	3.31	19.7	70.7	70	0.7	4	●
VAPDSSUSD0332	3.32	19.7	70.7	70	0.7	4	●
VAPDSSUSD0333	3.33	19.7	70.7	70	0.7	4	●
VAPDSSUSD0334	3.34	19.7	70.7	70	0.7	4	●
VAPDSSUSD0335	3.35	19.7	70.7	70	0.7	4	●
VAPDSSUSD0336	3.36	19.7	70.7	70	0.7	4	●
VAPDSSUSD0337	3.37	19.7	70.7	70	0.7	4	●
VAPDSSUSD0338	3.38	19.7	70.7	70	0.7	4	●
VAPDSSUSD0339	3.39	19.7	70.7	70	0.7	4	●
VAPDSSUSD0340	3.40	19.7	70.7	70	0.7	4	●
VAPDSSUSD0341	3.41	19.7	70.7	70	0.7	4	●
VAPDSSUSD0342	3.42	19.7	70.7	70	0.7	4	●
VAPDSSUSD0343	3.43	19.7	70.7	70	0.7	4	●
VAPDSSUSD0344	3.44	19.7	70.7	70	0.7	4	●
VAPDSSUSD0345	3.45	19.7	70.7	70	0.7	4	●
VAPDSSUSD0346	3.46	19.7	70.7	70	0.7	4	●
VAPDSSUSD0347	3.47	19.7	70.7	70	0.7	4	●
VAPDSSUSD0348	3.48	19.7	70.7	70	0.7	4	●
VAPDSSUSD0349	3.49	19.7	70.7	70	0.7	4	●
VAPDSSUSD0350	3.50	19.7	70.7	70	0.7	4	●
VAPDSSUSD0351	3.51	19.7	70.7	70	0.7	4	●
VAPDSSUSD0352	3.52	19.7	70.7	70	0.7	4	●
VAPDSSUSD0353	3.53	19.7	70.7	70	0.7	4	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0354	3.54	19.7	70.7	70	0.7	4	●
VAPDSSUSD0355	3.55	19.7	70.7	70	0.7	4	●
VAPDSSUSD0356	3.56	19.7	70.7	70	0.7	4	●
VAPDSSUSD0357	3.57	19.7	70.7	70	0.7	4	●
VAPDSSUSD0358	3.58	19.7	70.7	70	0.7	4	●
VAPDSSUSD0359	3.59	19.7	70.7	70	0.7	4	●
VAPDSSUSD0360	3.60	21.8	70.8	70	0.8	4	●
VAPDSSUSD0361	3.61	21.8	70.8	70	0.8	4	●
VAPDSSUSD0362	3.62	21.8	70.8	70	0.8	4	●
VAPDSSUSD0363	3.63	21.8	70.8	70	0.8	4	●
VAPDSSUSD0364	3.64	21.8	70.8	70	0.8	4	●
VAPDSSUSD0365	3.65	21.8	70.8	70	0.8	4	●
VAPDSSUSD0366	3.66	21.8	70.8	70	0.8	4	●
VAPDSSUSD0367	3.67	21.8	70.8	70	0.8	4	●
VAPDSSUSD0368	3.68	21.8	70.8	70	0.8	4	●
VAPDSSUSD0369	3.69	21.8	70.8	70	0.8	4	●
VAPDSSUSD0370	3.70	21.8	70.8	70	0.8	4	●
VAPDSSUSD0371	3.71	21.8	70.8	70	0.8	4	●
VAPDSSUSD0372	3.72	21.8	70.8	70	0.8	4	●
VAPDSSUSD0373	3.73	21.8	70.8	70	0.8	4	●
VAPDSSUSD0374	3.74	21.8	70.8	70	0.8	4	●
VAPDSSUSD0375	3.75	21.8	70.8	70	0.8	4	●
VAPDSSUSD0376	3.76	21.8	70.8	70	0.8	4	●
VAPDSSUSD0377	3.77	21.8	70.8	70	0.8	4	●
VAPDSSUSD0378	3.78	21.8	70.8	70	0.8	4	●
VAPDSSUSD0379	3.79	21.8	70.8	70	0.8	4	●
VAPDSSUSD0380	3.80	21.8	70.8	70	0.8	4	●
VAPDSSUSD0381	3.81	21.8	70.8	70	0.8	4	●
VAPDSSUSD0382	3.82	21.8	70.8	70	0.8	4	●
VAPDSSUSD0383	3.83	21.8	70.8	70	0.8	4	●
VAPDSSUSD0384	3.84	21.8	70.8	70	0.8	4	●
VAPDSSUSD0385	3.85	21.8	70.8	70	0.8	4	●
VAPDSSUSD0386	3.86	21.8	70.8	70	0.8	4	●
VAPDSSUSD0387	3.87	21.8	70.8	70	0.8	4	●
VAPDSSUSD0388	3.88	21.8	70.8	70	0.8	4	●
VAPDSSUSD0389	3.89	21.8	70.8	70	0.8	4	●
VAPDSSUSD0390	3.90	21.8	70.8	70	0.8	4	●
VAPDSSUSD0391	3.91	21.8	70.8	70	0.8	4	●
VAPDSSUSD0392	3.92	21.8	70.8	70	0.8	4	●
VAPDSSUSD0393	3.93	21.8	70.8	70	0.8	4	●
VAPDSSUSD0394	3.94	21.8	70.8	70	0.8	4	●
VAPDSSUSD0395	3.95	21.8	70.8	70	0.8	4	●
VAPDSSUSD0396	3.96	21.8	70.8	70	0.8	4	●
VAPDSSUSD0397	3.97	21.8	70.8	70	0.8	4	●
VAPDSSUSD0398	3.98	21.8	70.8	70	0.8	4	●
VAPDSSUSD0399	3.99	21.8	70.8	70	0.8	4	●
VAPDSSUSD0400	4.00	21.8	70.8	70	0.8	4	●
VAPDSSUSD0405	4.05	21.8	80.8	80	0.8	6	●

●：标准库存品

P
钻头

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0410	4.10	21.9	80.9	80	0.9	6	●
VAPDSSUSD0415	4.15	21.9	80.9	80	0.9	6	●
VAPDSSUSD0420	4.20	21.9	80.9	80	0.9	6	●
VAPDSSUSD0425	4.25	21.9	80.9	80	0.9	6	●
VAPDSSUSD0430	4.30	23.9	80.9	80	0.9	6	●
VAPDSSUSD0435	4.35	23.9	80.9	80	0.9	6	●
VAPDSSUSD0440	4.40	23.9	80.9	80	0.9	6	●
VAPDSSUSD0445	4.45	23.9	80.9	80	0.9	6	●
VAPDSSUSD0450	4.50	23.9	80.9	80	0.9	6	●
VAPDSSUSD0455	4.55	23.9	80.9	80	0.9	6	●
VAPDSSUSD0460	4.60	26.0	81.0	80	1.0	6	●
VAPDSSUSD0465	4.65	26.0	81.0	80	1.0	6	●
VAPDSSUSD0470	4.70	26.0	81.0	80	1.0	6	●
VAPDSSUSD0475	4.75	26.0	81.0	80	1.0	6	●
VAPDSSUSD0480	4.80	26.0	81.0	80	1.0	6	●
VAPDSSUSD0485	4.85	26.0	81.0	80	1.0	6	●
VAPDSSUSD0490	4.90	26.0	81.0	80	1.0	6	●
VAPDSSUSD0495	4.95	26.0	81.0	80	1.0	6	●
VAPDSSUSD0500	5.00	26.0	81.0	80	1.0	6	●
VAPDSSUSD0505	5.05	26.1	81.1	80	1.1	6	●
VAPDSSUSD0510	5.10	26.1	81.1	80	1.1	6	●
VAPDSSUSD0515	5.15	26.1	81.1	80	1.1	6	●
VAPDSSUSD0520	5.20	26.1	81.1	80	1.1	6	●
VAPDSSUSD0525	5.25	26.1	81.1	80	1.1	6	●
VAPDSSUSD0530	5.30	26.1	81.1	80	1.1	6	●
VAPDSSUSD0535	5.35	28.1	81.1	80	1.1	6	●
VAPDSSUSD0540	5.40	28.1	81.1	80	1.1	6	●
VAPDSSUSD0545	5.45	28.1	81.1	80	1.1	6	●
VAPDSSUSD0550	5.50	28.1	81.1	80	1.1	6	●
VAPDSSUSD0555	5.55	28.2	81.2	80	1.2	6	●
VAPDSSUSD0560	5.60	28.2	81.2	80	1.2	6	●
VAPDSSUSD0565	5.65	28.2	81.2	80	1.2	6	●
VAPDSSUSD0570	5.70	28.2	81.2	80	1.2	6	●
VAPDSSUSD0575	5.75	28.2	81.2	80	1.2	6	●
VAPDSSUSD0580	5.80	28.2	81.2	80	1.2	6	●
VAPDSSUSD0585	5.85	28.2	81.2	80	1.2	6	●
VAPDSSUSD0590	5.90	28.2	81.2	80	1.2	6	●
VAPDSSUSD0595	5.95	28.2	81.2	80	1.2	6	●
VAPDSSUSD0600	6.00	28.2	81.2	80	1.2	6	●
VAPDSSUSD0605	6.05	31.3	81.3	80	1.3	8	●
VAPDSSUSD0610	6.10	31.3	81.3	80	1.3	8	●
VAPDSSUSD0615	6.15	31.3	81.3	80	1.3	8	●
VAPDSSUSD0620	6.20	31.3	81.3	80	1.3	8	●
VAPDSSUSD0625	6.25	31.3	81.3	80	1.3	8	●
VAPDSSUSD0630	6.30	31.3	81.3	80	1.3	8	●
VAPDSSUSD0635	6.35	31.3	81.3	80	1.3	8	●
VAPDSSUSD0640	6.40	31.3	81.3	80	1.3	8	●
VAPDSSUSD0645	6.45	31.3	81.3	80	1.3	8	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0650	6.50	31.4	81.4	80	1.4	8	●
VAPDSSUSD0655	6.55	31.4	81.4	80	1.4	8	●
VAPDSSUSD0660	6.60	31.4	81.4	80	1.4	8	●
VAPDSSUSD0665	6.65	31.4	81.4	80	1.4	8	●
VAPDSSUSD0670	6.70	31.4	81.4	80	1.4	8	●
VAPDSSUSD0675	6.75	33.4	81.4	80	1.4	8	●
VAPDSSUSD0680	6.80	33.4	81.4	80	1.4	8	●
VAPDSSUSD0685	6.85	33.4	81.4	80	1.4	8	●
VAPDSSUSD0690	6.90	33.4	81.4	80	1.4	8	●
VAPDSSUSD0695	6.95	33.4	81.4	80	1.4	8	●
VAPDSSUSD0700	7.00	33.5	81.5	80	1.5	8	●
VAPDSSUSD0705	7.05	33.5	81.5	80	1.5	8	●
VAPDSSUSD0710	7.10	33.5	81.5	80	1.5	8	●
VAPDSSUSD0715	7.15	33.5	81.5	80	1.5	8	●
VAPDSSUSD0720	7.20	33.5	81.5	80	1.5	8	●
VAPDSSUSD0725	7.25	33.5	81.5	80	1.5	8	●
VAPDSSUSD0730	7.30	33.5	81.5	80	1.5	8	●
VAPDSSUSD0735	7.35	33.5	81.5	80	1.5	8	●
VAPDSSUSD0740	7.40	33.5	81.5	80	1.5	8	●
VAPDSSUSD0745	7.45	33.5	81.5	80	1.5	8	●
VAPDSSUSD0750	7.50	33.6	81.6	80	1.6	8	●
VAPDSSUSD0755	7.55	36.6	86.6	85	1.6	8	●
VAPDSSUSD0760	7.60	36.6	86.6	85	1.6	8	●
VAPDSSUSD0765	7.65	36.6	86.6	85	1.6	8	●
VAPDSSUSD0770	7.70	36.6	86.6	85	1.6	8	●
VAPDSSUSD0775	7.75	36.6	86.6	85	1.6	8	●
VAPDSSUSD0780	7.80	36.6	86.6	85	1.6	8	●
VAPDSSUSD0785	7.85	36.6	86.6	85	1.6	8	●
VAPDSSUSD0790	7.90	36.6	86.6	85	1.6	8	●
VAPDSSUSD0795	7.95	36.7	86.7	85	1.7	8	●
VAPDSSUSD0800	8.00	36.7	86.7	85	1.7	8	●
VAPDSSUSD0805	8.05	36.7	91.7	90	1.7	10	●
VAPDSSUSD0810	8.10	36.7	91.7	90	1.7	10	●
VAPDSSUSD0815	8.15	36.7	91.7	90	1.7	10	●
VAPDSSUSD0820	8.20	36.7	91.7	90	1.7	10	●
VAPDSSUSD0825	8.25	36.7	91.7	90	1.7	10	●
VAPDSSUSD0830	8.30	36.7	91.7	90	1.7	10	●
VAPDSSUSD0835	8.35	36.7	91.7	90	1.7	10	●
VAPDSSUSD0840	8.40	36.7	91.7	90	1.7	10	●
VAPDSSUSD0845	8.45	36.8	91.8	90	1.8	10	●
VAPDSSUSD0850	8.50	36.8	91.8	90	1.8	10	●
VAPDSSUSD0855	8.55	39.8	94.8	93	1.8	10	●
VAPDSSUSD0860	8.60	39.8	94.8	93	1.8	10	●
VAPDSSUSD0865	8.65	39.8	94.8	93	1.8	10	●
VAPDSSUSD0870	8.70	39.8	94.8	93	1.8	10	●
VAPDSSUSD0875	8.75	39.8	94.8	93	1.8	10	●
VAPDSSUSD0880	8.80	39.8	94.8	93	1.8	10	●
VAPDSSUSD0885	8.85	39.8	94.8	93	1.8	10	●

P

钻头

VAPDSSUS

VIOLET 涂层高精度钻头，用于钻削不锈钢(S)

高速钢

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD0890	8.90	39.8	94.8	93	1.8	10	●
VAPDSSUSD0895	8.95	39.9	94.9	93	1.9	10	●
VAPDSSUSD0900	9.00	39.9	94.9	93	1.9	10	●
VAPDSSUSD0910	9.10	39.9	94.9	93	1.9	10	●
VAPDSSUSD0920	9.20	39.9	94.9	93	1.9	10	●
VAPDSSUSD0930	9.30	39.9	94.9	93	1.9	10	●
VAPDSSUSD0940	9.40	40.0	95.0	93	2.0	10	●
VAPDSSUSD0950	9.50	40.0	95.0	93	2.0	10	●
VAPDSSUSD0960	9.60	43.0	98.0	96	2.0	10	●
VAPDSSUSD0970	9.70	43.0	98.0	96	2.0	10	●
VAPDSSUSD0980	9.80	43.0	98.0	96	2.0	10	●
VAPDSSUSD0990	9.90	43.1	98.1	96	2.1	10	●
VAPDSSUSD1000	10.0	43.1	98.1	96	2.1	10	●
VAPDSSUSD1010	10.1	43.1	103.1	101	2.1	12	●
VAPDSSUSD1020	10.2	43.1	103.1	101	2.1	12	●
VAPDSSUSD1030	10.3	43.1	103.1	101	2.1	12	●
VAPDSSUSD1040	10.4	43.2	103.2	101	2.2	12	●
VAPDSSUSD1050	10.5	43.2	103.2	101	2.2	12	●
VAPDSSUSD1060	10.6	43.2	103.2	101	2.2	12	●
VAPDSSUSD1070	10.7	47.2	107.2	105	2.2	12	●
VAPDSSUSD1080	10.8	47.2	107.2	105	2.2	12	●
VAPDSSUSD1090	10.9	47.3	107.3	105	2.3	12	●
VAPDSSUSD1100	11.0	47.3	107.3	105	2.3	12	●
VAPDSSUSD1110	11.1	47.3	107.3	105	2.3	12	●
VAPDSSUSD1120	11.2	47.3	107.3	105	2.3	12	●
VAPDSSUSD1130	11.3	47.3	107.3	105	2.3	12	●
VAPDSSUSD1140	11.4	47.4	107.4	105	2.4	12	●
VAPDSSUSD1150	11.5	47.4	107.4	105	2.4	12	●
VAPDSSUSD1160	11.6	47.4	107.4	105	2.4	12	●
VAPDSSUSD1170	11.7	47.4	107.4	105	2.4	12	●
VAPDSSUSD1180	11.8	47.4	107.4	105	2.4	12	●
VAPDSSUSD1190	11.9	51.5	111.5	109	2.5	12	●
VAPDSSUSD1200	12.0	51.5	111.5	109	2.5	12	●
VAPDSSUSD1210	12.1	51.5	111.5	109	2.5	12	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDSSUSD1220	12.2	51.5	111.5	109	2.5	12	●
VAPDSSUSD1230	12.3	51.6	111.6	109	2.6	12	●
VAPDSSUSD1240	12.4	51.6	111.6	109	2.6	12	●
VAPDSSUSD1250	12.5	51.6	111.6	109	2.6	12	●
VAPDSSUSD1260	12.6	51.6	111.6	109	2.6	12	●
VAPDSSUSD1270	12.7	51.6	111.6	109	2.6	12	●
VAPDSSUSD1280	12.8	51.7	111.7	109	2.7	12	●
VAPDSSUSD1290	12.9	51.7	111.7	109	2.7	12	●
VAPDSSUSD1300	13.0	51.7	111.7	109	2.7	12	●
VAPDSSUSD1350	13.5	53.8	113.8	111	2.8	16	●
VAPDSSUSD1400	14.0	53.9	113.9	111	2.9	16	●
VAPDSSUSD1410	14.1	55.9	115.9	113	2.9	16	●
VAPDSSUSD1420	14.2	55.9	115.9	113	2.9	16	●
VAPDSSUSD1450	14.5	56.0	116.0	113	3.0	16	●
VAPDSSUSD1500	15.0	56.1	116.1	113	3.1	16	●
VAPDSSUSD1550	15.5	58.2	118.2	115	3.2	16	●
VAPDSSUSD1560	15.6	58.2	118.2	115	3.2	16	●
VAPDSSUSD1570	15.7	58.3	118.3	115	3.3	16	●
VAPDSSUSD1600	16.0	58.3	118.3	115	3.3	16	●
VAPDSSUSD1650	16.5	60.4	125.4	122	3.4	20	●
VAPDSSUSD1700	17.0	60.5	125.5	122	3.5	20	●
VAPDSSUSD1750	17.5	61.6	126.6	123	3.6	20	●
VAPDSSUSD1760	17.6	61.7	126.7	123	3.7	20	●
VAPDSSUSD1770	17.7	61.7	126.7	123	3.7	20	●
VAPDSSUSD1800	18.0	61.7	126.7	123	3.7	20	●
VAPDSSUSD1850	18.5	63.8	128.8	125	3.8	20	●
VAPDSSUSD1900	19.0	63.9	128.9	125	3.9	20	●
VAPDSSUSD1950	19.5	66.0	131.0	127	4.0	20	●
VAPDSSUSD1960	19.6	66.1	131.1	127	4.1	20	●
VAPDSSUSD1970	19.7	66.1	131.1	127	4.1	20	●
VAPDSSUSD2000	20.0	66.1	131.1	127	4.1	20	●

P

钻头

●：标准库存品

VAPDMSUS

VIOLET 涂层高精度钻头，用于钻削不锈钢(M)



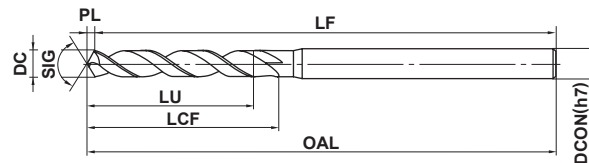
DC<4

DC≥4

DC≥1

高速钢

P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属	耐热合金	



※LU = LCF-2DC (Max 5×DC)



0.5≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤13
0 -0.014	0 -0.018	0 -0.022	0 -0.027

※钻头直径小于4.0mm，直径间隔为0.1，
其他尺寸间隔为0.01；直径公差为0-0.009mm。

- 本公司独自开发的VIOLET涂层钻头，
用于钻削不锈钢效率高，钻头寿命长。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0050	0.50	6.2	50.2	50	0.15	3	●
VAPDMSUSD0051	0.51	6.2	50.2	50	0.15	3	●
VAPDMSUSD0052	0.52	6.2	50.2	50	0.16	3	●
VAPDMSUSD0053	0.53	6.2	50.2	50	0.16	3	●
VAPDMSUSD0054	0.54	6.2	50.2	50	0.16	3	●
VAPDMSUSD0055	0.55	6.2	50.2	50	0.17	3	●
VAPDMSUSD0056	0.56	8.2	50.2	50	0.17	3	●
VAPDMSUSD0057	0.57	8.2	50.2	50	0.17	3	●
VAPDMSUSD0058	0.58	8.2	50.2	50	0.17	3	●
VAPDMSUSD0059	0.59	8.2	50.2	50	0.18	3	●
VAPDMSUSD0060	0.60	8.2	50.2	50	0.18	3	●
VAPDMSUSD0061	0.61	8.2	50.2	50	0.18	3	●
VAPDMSUSD0062	0.62	8.2	50.2	50	0.19	3	●
VAPDMSUSD0063	0.63	8.2	50.2	50	0.19	3	●
VAPDMSUSD0064	0.64	8.2	50.2	50	0.19	3	●
VAPDMSUSD0065	0.65	8.2	50.2	50	0.20	3	●
VAPDMSUSD0066	0.66	8.2	50.2	50	0.20	3	●
VAPDMSUSD0067	0.67	8.2	50.2	50	0.20	3	●
VAPDMSUSD0068	0.68	8.2	50.2	50	0.20	3	●
VAPDMSUSD0069	0.69	8.2	50.2	50	0.21	3	●
VAPDMSUSD0070	0.70	10.2	50.2	50	0.21	3	●
VAPDMSUSD0071	0.71	10.2	50.2	50	0.21	3	●
VAPDMSUSD0072	0.72	10.2	50.2	50	0.22	3	●
VAPDMSUSD0073	0.73	10.2	50.2	50	0.22	3	●
VAPDMSUSD0074	0.74	10.2	50.2	50	0.22	3	●
VAPDMSUSD0075	0.75	10.2	50.2	50	0.23	3	●
VAPDMSUSD0076	0.76	10.2	50.2	50	0.23	3	●
VAPDMSUSD0077	0.77	10.2	50.2	50	0.23	3	●
VAPDMSUSD0078	0.78	10.2	50.2	50	0.23	3	●
VAPDMSUSD0079	0.79	10.2	50.2	50	0.24	3	●
VAPDMSUSD0080	0.80	10.2	50.2	50	0.24	3	●
VAPDMSUSD0081	0.81	10.2	50.2	50	0.24	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0082	0.82	10.3	50.3	50	0.25	3	●
VAPDMSUSD0083	0.83	10.3	50.3	50	0.25	3	●
VAPDMSUSD0084	0.84	10.3	50.3	50	0.25	3	●
VAPDMSUSD0085	0.85	10.3	50.3	50	0.26	3	●
VAPDMSUSD0086	0.86	12.3	50.3	50	0.26	3	●
VAPDMSUSD0087	0.87	12.3	50.3	50	0.26	3	●
VAPDMSUSD0088	0.88	12.3	50.3	50	0.26	3	●
VAPDMSUSD0089	0.89	12.3	50.3	50	0.27	3	●
VAPDMSUSD0090	0.90	12.3	50.3	50	0.27	3	●
VAPDMSUSD0091	0.91	12.3	50.3	50	0.27	3	●
VAPDMSUSD0092	0.92	12.3	50.3	50	0.28	3	●
VAPDMSUSD0093	0.93	12.3	50.3	50	0.28	3	●
VAPDMSUSD0094	0.94	12.3	50.3	50	0.28	3	●
VAPDMSUSD0095	0.95	12.3	50.3	50	0.29	3	●
VAPDMSUSD0096	0.96	12.3	50.3	50	0.29	3	●
VAPDMSUSD0097	0.97	12.3	50.3	50	0.29	3	●
VAPDMSUSD0098	0.98	12.3	50.3	50	0.29	3	●
VAPDMSUSD0099	0.99	12.3	50.3	50	0.3	3	●
VAPDMSUSD0100	1.00	12.3	60.3	60	0.3	3	●
VAPDMSUSD0101	1.01	12.3	60.3	60	0.3	3	●
VAPDMSUSD0102	1.02	12.3	60.3	60	0.3	3	●
VAPDMSUSD0103	1.03	12.3	60.3	60	0.3	3	●
VAPDMSUSD0104	1.04	12.3	60.3	60	0.3	3	●
VAPDMSUSD0105	1.05	12.3	60.3	60	0.3	3	●
VAPDMSUSD0106	1.06	12.3	60.3	60	0.3	3	●
VAPDMSUSD0107	1.07	16.3	60.3	60	0.3	3	●
VAPDMSUSD0108	1.08	16.3	60.3	60	0.3	3	●
VAPDMSUSD0109	1.09	16.3	60.3	60	0.3	3	●
VAPDMSUSD0110	1.10	16.3	60.3	60	0.3	3	●
VAPDMSUSD0111	1.11	16.3	60.3	60	0.3	3	●
VAPDMSUSD0112	1.12	16.3	60.3	60	0.3	3	●
VAPDMSUSD0113	1.13	16.3	60.3	60	0.3	3	●

P

钻头

VAPDMSUS

VIOLET 涂层高精度钻头，用于钻削不锈钢(M)

高速钢

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0114	1.14	16.3	60.3	60	0.3	3	●
VAPDMSUSD0115	1.15	16.4	60.4	60	0.4	3	●
VAPDMSUSD0116	1.16	16.4	60.4	60	0.4	3	●
VAPDMSUSD0117	1.17	16.4	60.4	60	0.4	3	●
VAPDMSUSD0118	1.18	16.4	60.4	60	0.4	3	●
VAPDMSUSD0119	1.19	16.4	60.4	60	0.4	3	●
VAPDMSUSD0120	1.20	16.4	60.4	60	0.4	3	●
VAPDMSUSD0121	1.21	16.4	60.4	60	0.4	3	●
VAPDMSUSD0122	1.22	16.4	60.4	60	0.4	3	●
VAPDMSUSD0123	1.23	16.4	60.4	60	0.4	3	●
VAPDMSUSD0124	1.24	16.4	60.4	60	0.4	3	●
VAPDMSUSD0125	1.25	16.4	60.4	60	0.4	3	●
VAPDMSUSD0126	1.26	16.4	60.4	60	0.4	3	●
VAPDMSUSD0127	1.27	16.4	60.4	60	0.4	3	●
VAPDMSUSD0128	1.28	16.4	60.4	60	0.4	3	●
VAPDMSUSD0129	1.29	16.4	60.4	60	0.4	3	●
VAPDMSUSD0130	1.30	16.4	60.4	60	0.4	3	●
VAPDMSUSD0131	1.31	18.4	60.4	60	0.4	3	●
VAPDMSUSD0132	1.32	18.4	60.4	60	0.4	3	●
VAPDMSUSD0133	1.33	18.4	60.4	60	0.4	3	●
VAPDMSUSD0134	1.34	18.4	60.4	60	0.4	3	●
VAPDMSUSD0135	1.35	18.4	60.4	60	0.4	3	●
VAPDMSUSD0136	1.36	18.4	60.4	60	0.4	3	●
VAPDMSUSD0137	1.37	18.4	60.4	60	0.4	3	●
VAPDMSUSD0138	1.38	18.4	60.4	60	0.4	3	●
VAPDMSUSD0139	1.39	18.4	60.4	60	0.4	3	●
VAPDMSUSD0140	1.40	18.4	60.4	60	0.4	3	●
VAPDMSUSD0141	1.41	18.4	60.4	60	0.4	3	●
VAPDMSUSD0142	1.42	18.4	60.4	60	0.4	3	●
VAPDMSUSD0143	1.43	18.4	60.4	60	0.4	3	●
VAPDMSUSD0144	1.44	18.4	60.4	60	0.4	3	●
VAPDMSUSD0145	1.45	18.4	60.4	60	0.4	3	●
VAPDMSUSD0146	1.46	18.4	60.4	60	0.4	3	●
VAPDMSUSD0147	1.47	18.4	60.4	60	0.4	3	●
VAPDMSUSD0148	1.48	18.4	60.4	60	0.4	3	●
VAPDMSUSD0149	1.49	18.5	60.5	60	0.5	3	●
VAPDMSUSD0150	1.50	18.5	60.5	60	0.5	3	●
VAPDMSUSD0151	1.51	20.5	60.5	60	0.5	3	●
VAPDMSUSD0152	1.52	20.5	60.5	60	0.5	3	●
VAPDMSUSD0153	1.53	20.5	60.5	60	0.5	3	●
VAPDMSUSD0154	1.54	20.5	60.5	60	0.5	3	●
VAPDMSUSD0155	1.55	20.5	60.5	60	0.5	3	●
VAPDMSUSD0156	1.56	20.5	60.5	60	0.5	3	●
VAPDMSUSD0157	1.57	20.5	60.5	60	0.5	3	●
VAPDMSUSD0158	1.58	20.5	60.5	60	0.5	3	●
VAPDMSUSD0159	1.59	20.5	60.5	60	0.5	3	●
VAPDMSUSD0160	1.60	20.5	60.5	60	0.5	3	●
VAPDMSUSD0161	1.61	20.5	60.5	60	0.5	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0162	1.62	20.5	60.5	60	0.5	3	●
VAPDMSUSD0163	1.63	20.5	60.5	60	0.5	3	●
VAPDMSUSD0164	1.64	20.5	60.5	60	0.5	3	●
VAPDMSUSD0165	1.65	20.5	60.5	60	0.5	3	●
VAPDMSUSD0166	1.66	20.5	60.5	60	0.5	3	●
VAPDMSUSD0167	1.67	20.5	60.5	60	0.5	3	●
VAPDMSUSD0168	1.68	20.5	60.5	60	0.5	3	●
VAPDMSUSD0169	1.69	20.5	60.5	60	0.5	3	●
VAPDMSUSD0170	1.70	20.5	60.5	60	0.5	3	●
VAPDMSUSD0171	1.71	20.5	60.5	60	0.5	3	●
VAPDMSUSD0172	1.72	20.5	60.5	60	0.5	3	●
VAPDMSUSD0173	1.73	20.5	60.5	60	0.5	3	●
VAPDMSUSD0174	1.74	20.5	60.5	60	0.5	3	●
VAPDMSUSD0175	1.75	20.5	60.5	60	0.5	3	●
VAPDMSUSD0176	1.76	20.5	60.5	60	0.5	3	●
VAPDMSUSD0177	1.77	20.5	60.5	60	0.5	3	●
VAPDMSUSD0178	1.78	20.5	60.5	60	0.5	3	●
VAPDMSUSD0179	1.79	20.5	60.5	60	0.5	3	●
VAPDMSUSD0180	1.80	22.5	60.5	60	0.5	3	●
VAPDMSUSD0181	1.81	22.5	60.5	60	0.5	3	●
VAPDMSUSD0182	1.82	22.6	60.6	60	0.6	3	●
VAPDMSUSD0183	1.83	22.6	60.6	60	0.6	3	●
VAPDMSUSD0184	1.84	22.6	60.6	60	0.6	3	●
VAPDMSUSD0185	1.85	22.6	60.6	60	0.6	3	●
VAPDMSUSD0186	1.86	22.6	60.6	60	0.6	3	●
VAPDMSUSD0187	1.87	22.6	60.6	60	0.6	3	●
VAPDMSUSD0188	1.88	22.6	60.6	60	0.6	3	●
VAPDMSUSD0189	1.89	22.6	60.6	60	0.6	3	●
VAPDMSUSD0190	1.90	22.6	60.6	60	0.6	3	●
VAPDMSUSD0191	1.91	23.6	60.6	60	0.6	3	●
VAPDMSUSD0192	1.92	23.6	60.6	60	0.6	3	●
VAPDMSUSD0193	1.93	23.6	60.6	60	0.6	3	●
VAPDMSUSD0194	1.94	23.6	60.6	60	0.6	3	●
VAPDMSUSD0195	1.95	23.6	60.6	60	0.6	3	●
VAPDMSUSD0196	1.96	23.6	60.6	60	0.6	3	●
VAPDMSUSD0197	1.97	23.6	60.6	60	0.6	3	●
VAPDMSUSD0198	1.98	23.6	60.6	60	0.6	3	●
VAPDMSUSD0199	1.99	23.6	60.6	60	0.6	3	●
VAPDMSUSD0200	2.00	23.6	70.6	70	0.6	3	●
VAPDMSUSD0201	2.01	23.6	70.6	70	0.6	3	●
VAPDMSUSD0202	2.02	23.6	70.6	70	0.6	3	●
VAPDMSUSD0203	2.03	23.6	70.6	70	0.6	3	●
VAPDMSUSD0204	2.04	23.6	70.6	70	0.6	3	●
VAPDMSUSD0205	2.05	23.6	70.6	70	0.6	3	●
VAPDMSUSD0206	2.06	23.6	70.6	70	0.6	3	●
VAPDMSUSD0207	2.07	23.6	70.6	70	0.6	3	●
VAPDMSUSD0208	2.08	23.6	70.6	70	0.6	3	●
VAPDMSUSD0209	2.09	23.6	70.6	70	0.6	3	●

●：标准库存品

P
钻头

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0210	2.10	23.6	70.6	70	0.6	3	●
VAPDMSUSD0211	2.11	23.6	70.6	70	0.6	3	●
VAPDMSUSD0212	2.12	23.6	70.6	70	0.6	3	●
VAPDMSUSD0213	2.13	23.6	70.6	70	0.6	3	●
VAPDMSUSD0214	2.14	23.6	70.6	70	0.6	3	●
VAPDMSUSD0215	2.15	23.7	70.7	70	0.7	3	●
VAPDMSUSD0216	2.16	23.7	70.7	70	0.7	3	●
VAPDMSUSD0217	2.17	23.7	70.7	70	0.7	3	●
VAPDMSUSD0218	2.18	23.7	70.7	70	0.7	3	●
VAPDMSUSD0219	2.19	23.7	70.7	70	0.7	3	●
VAPDMSUSD0220	2.20	26.7	70.7	70	0.7	3	●
VAPDMSUSD0221	2.21	26.7	70.7	70	0.7	3	●
VAPDMSUSD0222	2.22	26.7	70.7	70	0.7	3	●
VAPDMSUSD0223	2.23	26.7	70.7	70	0.7	3	●
VAPDMSUSD0224	2.24	26.7	70.7	70	0.7	3	●
VAPDMSUSD0225	2.25	26.7	70.7	70	0.7	3	●
VAPDMSUSD0226	2.26	26.7	70.7	70	0.7	3	●
VAPDMSUSD0227	2.27	26.7	70.7	70	0.7	3	●
VAPDMSUSD0228	2.28	26.7	70.7	70	0.7	3	●
VAPDMSUSD0229	2.29	26.7	70.7	70	0.7	3	●
VAPDMSUSD0230	2.30	26.7	70.7	70	0.7	3	●
VAPDMSUSD0231	2.31	26.7	70.7	70	0.7	3	●
VAPDMSUSD0232	2.32	26.7	70.7	70	0.7	3	●
VAPDMSUSD0233	2.33	26.7	70.7	70	0.7	3	●
VAPDMSUSD0234	2.34	26.7	70.7	70	0.7	3	●
VAPDMSUSD0235	2.35	26.7	70.7	70	0.7	3	●
VAPDMSUSD0236	2.36	26.7	70.7	70	0.7	3	●
VAPDMSUSD0237	2.37	26.7	70.7	70	0.7	3	●
VAPDMSUSD0238	2.38	26.7	70.7	70	0.7	3	●
VAPDMSUSD0239	2.39	26.7	70.7	70	0.7	3	●
VAPDMSUSD0240	2.40	29.7	70.7	70	0.7	3	●
VAPDMSUSD0241	2.41	29.7	70.7	70	0.7	3	●
VAPDMSUSD0242	2.42	29.7	70.7	70	0.7	3	●
VAPDMSUSD0243	2.43	29.7	70.7	70	0.7	3	●
VAPDMSUSD0244	2.44	29.7	70.7	70	0.7	3	●
VAPDMSUSD0245	2.45	29.7	70.7	70	0.7	3	●
VAPDMSUSD0246	2.46	29.7	70.7	70	0.7	3	●
VAPDMSUSD0247	2.47	29.7	70.7	70	0.7	3	●
VAPDMSUSD0248	2.48	29.8	70.8	70	0.8	3	●
VAPDMSUSD0249	2.49	29.8	70.8	70	0.8	3	●
VAPDMSUSD0250	2.50	29.8	70.8	70	0.8	3	●
VAPDMSUSD0251	2.51	29.8	70.8	70	0.8	3	●
VAPDMSUSD0252	2.52	29.8	70.8	70	0.8	3	●
VAPDMSUSD0253	2.53	29.8	70.8	70	0.8	3	●
VAPDMSUSD0254	2.54	29.8	70.8	70	0.8	3	●
VAPDMSUSD0255	2.55	29.8	70.8	70	0.8	3	●
VAPDMSUSD0256	2.56	29.8	70.8	70	0.8	3	●
VAPDMSUSD0257	2.57	29.8	70.8	70	0.8	3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0258	2.58	29.8	70.8	70	0.8	3	●
VAPDMSUSD0259	2.59	29.8	70.8	70	0.8	3	●
VAPDMSUSD0260	2.60	29.8	70.8	70	0.8	3	●
VAPDMSUSD0261	2.61	29.8	70.8	70	0.8	3	●
VAPDMSUSD0262	2.62	29.8	70.8	70	0.8	3	●
VAPDMSUSD0263	2.63	29.8	70.8	70	0.8	3	●
VAPDMSUSD0264	2.64	29.8	70.8	70	0.8	3	●
VAPDMSUSD0265	2.65	29.8	70.8	70	0.8	3	●
VAPDMSUSD0266	2.66	29.8	70.8	70	0.8	3	●
VAPDMSUSD0267	2.67	29.8	70.8	70	0.8	3	●
VAPDMSUSD0268	2.68	29.8	70.8	70	0.8	3	●
VAPDMSUSD0269	2.69	29.8	70.8	70	0.8	3	●
VAPDMSUSD0270	2.70	32.8	70.8	70	0.8	3	●
VAPDMSUSD0271	2.71	32.8	70.8	70	0.8	3	●
VAPDMSUSD0272	2.72	32.8	70.8	70	0.8	3	●
VAPDMSUSD0273	2.73	32.8	70.8	70	0.8	3	●
VAPDMSUSD0274	2.74	32.8	70.8	70	0.8	3	●
VAPDMSUSD0275	2.75	32.8	70.8	70	0.8	3	●
VAPDMSUSD0276	2.76	32.8	70.8	70	0.8	3	●
VAPDMSUSD0277	2.77	32.8	70.8	70	0.8	3	●
VAPDMSUSD0278	2.78	32.8	70.8	70	0.8	3	●
VAPDMSUSD0279	2.79	32.8	70.8	70	0.8	3	●
VAPDMSUSD0280	2.80	32.8	70.8	70	0.8	3	●
VAPDMSUSD0281	2.81	32.8	70.8	70	0.8	3	●
VAPDMSUSD0282	2.82	32.9	70.9	70	0.9	3	●
VAPDMSUSD0283	2.83	32.9	70.9	70	0.9	3	●
VAPDMSUSD0284	2.84	32.9	70.9	70	0.9	3	●
VAPDMSUSD0285	2.85	32.9	70.9	70	0.9	3	●
VAPDMSUSD0286	2.86	32.9	70.9	70	0.9	3	●
VAPDMSUSD0287	2.87	32.9	70.9	70	0.9	3	●
VAPDMSUSD0288	2.88	32.9	70.9	70	0.9	3	●
VAPDMSUSD0289	2.89	32.9	70.9	70	0.9	3	●
VAPDMSUSD0290	2.90	32.9	70.9	70	0.9	3	●
VAPDMSUSD0291	2.91	32.9	70.9	70	0.9	3	●
VAPDMSUSD0292	2.92	32.9	70.9	70	0.9	3	●
VAPDMSUSD0293	2.93	32.9	70.9	70	0.9	3	●
VAPDMSUSD0294	2.94	32.9	70.9	70	0.9	3	●
VAPDMSUSD0295	2.95	32.9	70.9	70	0.9	3	●
VAPDMSUSD0296	2.96	32.9	70.9	70	0.9	3	●
VAPDMSUSD0297	2.97	32.9	70.9	70	0.9	3	●
VAPDMSUSD0298	2.98	32.9	70.9	70	0.9	3	●
VAPDMSUSD0299	2.99	32.9	70.9	70	0.9	3	●
VAPDMSUSD0300	3.00	32.9	70.9	70	0.9	3	●
VAPDMSUSD0301	3.01	35.9	85.9	85	0.9	4	●
VAPDMSUSD0302	3.02	35.9	85.9	85	0.9	4	●
VAPDMSUSD0303	3.03	35.9	85.9	85	0.9	4	●
VAPDMSUSD0304	3.04	35.9	85.9	85	0.9	4	●
VAPDMSUSD0305	3.05	35.9	85.9	85	0.9	4	●

P

钻头

VAPDMSUS

VIOLET 涂层高精度钻头，用于钻削不锈钢(M)

高速钢

P
钻头

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0306	3.06	35.9	85.9	85	0.9	4	●
VAPDMSUSD0307	3.07	35.9	85.9	85	0.9	4	●
VAPDMSUSD0308	3.08	35.9	85.9	85	0.9	4	●
VAPDMSUSD0309	3.09	35.9	85.9	85	0.9	4	●
VAPDMSUSD0310	3.10	35.9	85.9	85	0.9	4	●
VAPDMSUSD0311	3.11	35.9	85.9	85	0.9	4	●
VAPDMSUSD0312	3.12	35.9	85.9	85	0.9	4	●
VAPDMSUSD0313	3.13	35.9	85.9	85	0.9	4	●
VAPDMSUSD0314	3.14	35.9	85.9	85	0.9	4	●
VAPDMSUSD0315	3.15	36.0	86.0	85	1.0	4	●
VAPDMSUSD0316	3.16	36.0	86.0	85	1.0	4	●
VAPDMSUSD0317	3.17	36.0	86.0	85	1.0	4	●
VAPDMSUSD0318	3.18	36.0	86.0	85	1.0	4	●
VAPDMSUSD0319	3.19	36.0	86.0	85	1.0	4	●
VAPDMSUSD0320	3.20	36.0	86.0	85	1.0	4	●
VAPDMSUSD0321	3.21	36.0	86.0	85	1.0	4	●
VAPDMSUSD0322	3.22	36.0	86.0	85	1.0	4	●
VAPDMSUSD0323	3.23	36.0	86.0	85	1.0	4	●
VAPDMSUSD0324	3.24	36.0	86.0	85	1.0	4	●
VAPDMSUSD0325	3.25	36.0	86.0	85	1.0	4	●
VAPDMSUSD0326	3.26	36.0	86.0	85	1.0	4	●
VAPDMSUSD0327	3.27	36.0	86.0	85	1.0	4	●
VAPDMSUSD0328	3.28	36.0	86.0	85	1.0	4	●
VAPDMSUSD0329	3.29	36.0	86.0	85	1.0	4	●
VAPDMSUSD0330	3.30	36.0	86.0	85	1.0	4	●
VAPDMSUSD0331	3.31	39.0	86.0	85	1.0	4	●
VAPDMSUSD0332	3.32	39.0	86.0	85	1.0	4	●
VAPDMSUSD0333	3.33	39.0	86.0	85	1.0	4	●
VAPDMSUSD0334	3.34	39.0	86.0	85	1.0	4	●
VAPDMSUSD0335	3.35	39.0	86.0	85	1.0	4	●
VAPDMSUSD0336	3.36	39.0	86.0	85	1.0	4	●
VAPDMSUSD0337	3.37	39.0	86.0	85	1.0	4	●
VAPDMSUSD0338	3.38	39.0	86.0	85	1.0	4	●
VAPDMSUSD0339	3.39	39.0	86.0	85	1.0	4	●
VAPDMSUSD0340	3.40	39.0	86.0	85	1.0	4	●
VAPDMSUSD0341	3.41	39.0	86.0	85	1.0	4	●
VAPDMSUSD0342	3.42	39.0	86.0	85	1.0	4	●
VAPDMSUSD0343	3.43	39.0	86.0	85	1.0	4	●
VAPDMSUSD0344	3.44	39.0	86.0	85	1.0	4	●
VAPDMSUSD0345	3.45	39.0	86.0	85	1.0	4	●
VAPDMSUSD0346	3.46	39.0	86.0	85	1.0	4	●
VAPDMSUSD0347	3.47	39.0	86.0	85	1.0	4	●
VAPDMSUSD0348	3.48	39.1	86.1	85	1.1	4	●
VAPDMSUSD0349	3.49	39.1	86.1	85	1.1	4	●
VAPDMSUSD0350	3.50	39.1	86.1	85	1.1	4	●
VAPDMSUSD0351	3.51	39.1	86.1	85	1.1	4	●
VAPDMSUSD0352	3.52	39.1	86.1	85	1.1	4	●
VAPDMSUSD0353	3.53	39.1	86.1	85	1.1	4	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0354	3.54	39.1	86.1	85	1.1	4	●
VAPDMSUSD0355	3.55	39.1	86.1	85	1.1	4	●
VAPDMSUSD0356	3.56	39.1	86.1	85	1.1	4	●
VAPDMSUSD0357	3.57	39.1	86.1	85	1.1	4	●
VAPDMSUSD0358	3.58	39.1	86.1	85	1.1	4	●
VAPDMSUSD0359	3.59	39.1	86.1	85	1.1	4	●
VAPDMSUSD0360	3.60	39.1	86.1	85	1.1	4	●
VAPDMSUSD0361	3.61	39.1	86.1	85	1.1	4	●
VAPDMSUSD0362	3.62	39.1	86.1	85	1.1	4	●
VAPDMSUSD0363	3.63	39.1	86.1	85	1.1	4	●
VAPDMSUSD0364	3.64	39.1	86.1	85	1.1	4	●
VAPDMSUSD0365	3.65	39.1	86.1	85	1.1	4	●
VAPDMSUSD0366	3.66	39.1	86.1	85	1.1	4	●
VAPDMSUSD0367	3.67	39.1	86.1	85	1.1	4	●
VAPDMSUSD0368	3.68	39.1	86.1	85	1.1	4	●
VAPDMSUSD0369	3.69	39.1	86.1	85	1.1	4	●
VAPDMSUSD0370	3.70	39.1	86.1	85	1.1	4	●
VAPDMSUSD0371	3.71	43.1	86.1	85	1.1	4	●
VAPDMSUSD0372	3.72	43.1	86.1	85	1.1	4	●
VAPDMSUSD0373	3.73	43.1	86.1	85	1.1	4	●
VAPDMSUSD0374	3.74	43.1	86.1	85	1.1	4	●
VAPDMSUSD0375	3.75	43.1	86.1	85	1.1	4	●
VAPDMSUSD0376	3.76	43.1	86.1	85	1.1	4	●
VAPDMSUSD0377	3.77	43.1	86.1	85	1.1	4	●
VAPDMSUSD0378	3.78	43.1	86.1	85	1.1	4	●
VAPDMSUSD0379	3.79	43.1	86.1	85	1.1	4	●
VAPDMSUSD0380	3.80	43.1	86.1	85	1.1	4	●
VAPDMSUSD0381	3.81	43.1	86.1	85	1.1	4	●
VAPDMSUSD0382	3.82	43.2	86.2	85	1.2	4	●
VAPDMSUSD0383	3.83	43.2	86.2	85	1.2	4	●
VAPDMSUSD0384	3.84	43.2	86.2	85	1.2	4	●
VAPDMSUSD0385	3.85	43.2	86.2	85	1.2	4	●
VAPDMSUSD0386	3.86	43.2	86.2	85	1.2	4	●
VAPDMSUSD0387	3.87	43.2	86.2	85	1.2	4	●
VAPDMSUSD0388	3.88	43.2	86.2	85	1.2	4	●
VAPDMSUSD0389	3.89	43.2	86.2	85	1.2	4	●
VAPDMSUSD0390	3.90	43.2	86.2	85	1.2	4	●
VAPDMSUSD0391	3.91	43.2	86.2	85	1.2	4	●
VAPDMSUSD0392	3.92	43.2	86.2	85	1.2	4	●
VAPDMSUSD0393	3.93	43.2	86.2	85	1.2	4	●
VAPDMSUSD0394	3.94	43.2	86.2	85	1.2	4	●
VAPDMSUSD0395	3.95	43.2	86.2	85	1.2	4	●
VAPDMSUSD0396	3.96	43.2	86.2	85	1.2	4	●
VAPDMSUSD0397	3.97	43.2	86.2	85	1.2	4	●
VAPDMSUSD0398	3.98	43.2	86.2	85	1.2	4	●
VAPDMSUSD0399	3.99	43.2	86.2	85	1.2	4	●
VAPDMSUSD0400	4.00	42.8	85.8	85	0.8	4	●
VAPDMSUSD0405	4.05	42.8	100.8	100	0.8	6	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0410	4.10	42.9	100.9	100	0.9	6	●
VAPDMSUSD0415	4.15	42.9	100.9	100	0.9	6	●
VAPDMSUSD0420	4.20	42.9	100.9	100	0.9	6	●
VAPDMSUSD0425	4.25	46.9	100.9	100	0.9	6	●
VAPDMSUSD0430	4.30	46.9	100.9	100	0.9	6	●
VAPDMSUSD0435	4.35	46.9	100.9	100	0.9	6	●
VAPDMSUSD0440	4.40	46.9	100.9	100	0.9	6	●
VAPDMSUSD0445	4.45	46.9	100.9	100	0.9	6	●
VAPDMSUSD0450	4.50	46.9	100.9	100	0.9	6	●
VAPDMSUSD0455	4.55	46.9	100.9	100	0.9	6	●
VAPDMSUSD0460	4.60	47.0	101.0	100	1.0	6	●
VAPDMSUSD0465	4.65	47.0	101.0	100	1.0	6	●
VAPDMSUSD0470	4.70	47.0	101.0	100	1.0	6	●
VAPDMSUSD0475	4.75	47.0	101.0	100	1.0	6	●
VAPDMSUSD0480	4.80	52.0	101.0	100	1.0	6	●
VAPDMSUSD0485	4.85	52.0	101.0	100	1.0	6	●
VAPDMSUSD0490	4.90	52.0	101.0	100	1.0	6	●
VAPDMSUSD0495	4.95	52.0	101.0	100	1.0	6	●
VAPDMSUSD0500	5.00	52.0	101.0	100	1.0	6	●
VAPDMSUSD0505	5.05	52.1	101.1	100	1.1	6	●
VAPDMSUSD0510	5.10	52.1	101.1	100	1.1	6	●
VAPDMSUSD0515	5.15	52.1	101.1	100	1.1	6	●
VAPDMSUSD0520	5.20	52.1	101.1	100	1.1	6	●
VAPDMSUSD0525	5.25	52.1	101.1	100	1.1	6	●
VAPDMSUSD0530	5.30	52.1	101.1	100	1.1	6	●
VAPDMSUSD0535	5.35	57.1	107.1	106	1.1	6	●
VAPDMSUSD0540	5.40	57.1	107.1	106	1.1	6	●
VAPDMSUSD0545	5.45	57.1	107.1	106	1.1	6	●
VAPDMSUSD0550	5.50	57.1	107.1	106	1.1	6	●
VAPDMSUSD0555	5.55	57.2	107.2	106	1.2	6	●
VAPDMSUSD0560	5.60	57.2	107.2	106	1.2	6	●
VAPDMSUSD0565	5.65	57.2	107.2	106	1.2	6	●
VAPDMSUSD0570	5.70	57.2	107.2	106	1.2	6	●
VAPDMSUSD0575	5.75	57.2	107.2	106	1.2	6	●
VAPDMSUSD0580	5.80	57.2	107.2	106	1.2	6	●
VAPDMSUSD0585	5.85	57.2	107.2	106	1.2	6	●
VAPDMSUSD0590	5.90	57.2	107.2	106	1.2	6	●
VAPDMSUSD0595	5.95	57.2	107.2	106	1.2	6	●
VAPDMSUSD0600	6.00	57.2	107.2	106	1.2	6	●
VAPDMSUSD0605	6.05	63.3	113.3	112	1.3	8	●
VAPDMSUSD0610	6.10	63.3	113.3	112	1.3	8	●
VAPDMSUSD0615	6.15	63.3	113.3	112	1.3	8	●
VAPDMSUSD0620	6.20	63.3	113.3	112	1.3	8	●
VAPDMSUSD0625	6.25	63.3	113.3	112	1.3	8	●
VAPDMSUSD0630	6.30	63.3	113.3	112	1.3	8	●
VAPDMSUSD0635	6.35	63.3	113.3	112	1.3	8	●
VAPDMSUSD0640	6.40	63.3	113.3	112	1.3	8	●
VAPDMSUSD0645	6.45	63.3	113.3	112	1.3	8	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0650	6.50	63.4	113.4	112	1.4	8	●
VAPDMSUSD0655	6.55	63.4	113.4	112	1.4	8	●
VAPDMSUSD0660	6.60	63.4	113.4	112	1.4	8	●
VAPDMSUSD0665	6.65	63.4	113.4	112	1.4	8	●
VAPDMSUSD0670	6.70	63.4	113.4	112	1.4	8	●
VAPDMSUSD0675	6.75	68.4	118.4	117	1.4	8	●
VAPDMSUSD0680	6.80	68.4	118.4	117	1.4	8	●
VAPDMSUSD0685	6.85	68.4	118.4	117	1.4	8	●
VAPDMSUSD0690	6.90	68.4	118.4	117	1.4	8	●
VAPDMSUSD0695	6.95	68.4	118.4	117	1.4	8	●
VAPDMSUSD0700	7.00	68.5	118.5	117	1.5	8	●
VAPDMSUSD0705	7.05	68.5	118.5	117	1.5	8	●
VAPDMSUSD0710	7.10	68.5	118.5	117	1.5	8	●
VAPDMSUSD0715	7.15	68.5	118.5	117	1.5	8	●
VAPDMSUSD0720	7.20	68.5	118.5	117	1.5	8	●
VAPDMSUSD0725	7.25	68.5	118.5	117	1.5	8	●
VAPDMSUSD0730	7.30	68.5	118.5	117	1.5	8	●
VAPDMSUSD0735	7.35	68.5	118.5	117	1.5	8	●
VAPDMSUSD0740	7.40	68.5	118.5	117	1.5	8	●
VAPDMSUSD0745	7.45	68.5	118.5	117	1.5	8	●
VAPDMSUSD0750	7.50	68.6	118.6	117	1.6	8	●
VAPDMSUSD0755	7.55	74.6	124.6	123	1.6	8	●
VAPDMSUSD0760	7.60	74.6	124.6	123	1.6	8	●
VAPDMSUSD0765	7.65	74.6	124.6	123	1.6	8	●
VAPDMSUSD0770	7.70	74.6	124.6	123	1.6	8	●
VAPDMSUSD0775	7.75	74.6	124.6	123	1.6	8	●
VAPDMSUSD0780	7.80	74.6	124.6	123	1.6	8	●
VAPDMSUSD0785	7.85	74.6	124.6	123	1.6	8	●
VAPDMSUSD0790	7.90	74.6	124.6	123	1.6	8	●
VAPDMSUSD0795	7.95	74.7	124.7	123	1.7	8	●
VAPDMSUSD0800	8.00	74.7	124.7	123	1.7	8	●
VAPDMSUSD0805	8.05	74.7	129.7	128	1.7	10	●
VAPDMSUSD0810	8.10	74.7	129.7	128	1.7	10	●
VAPDMSUSD0815	8.15	74.7	129.7	128	1.7	10	●
VAPDMSUSD0820	8.20	74.7	129.7	128	1.7	10	●
VAPDMSUSD0825	8.25	74.7	129.7	128	1.7	10	●
VAPDMSUSD0830	8.30	74.7	129.7	128	1.7	10	●
VAPDMSUSD0835	8.35	74.7	129.7	128	1.7	10	●
VAPDMSUSD0840	8.40	74.7	129.7	128	1.7	10	●
VAPDMSUSD0845	8.45	74.8	129.8	128	1.8	10	●
VAPDMSUSD0850	8.50	74.8	129.8	128	1.8	10	●
VAPDMSUSD0855	8.55	80.8	135.8	134	1.8	10	●
VAPDMSUSD0860	8.60	80.8	135.8	134	1.8	10	●
VAPDMSUSD0865	8.65	80.8	135.8	134	1.8	10	●
VAPDMSUSD0870	8.70	80.8	135.8	134	1.8	10	●
VAPDMSUSD0875	8.75	80.8	135.8	134	1.8	10	●
VAPDMSUSD0880	8.80	80.8	135.8	134	1.8	10	●
VAPDMSUSD0885	8.85	80.8	135.8	134	1.8	10	●

P

钻头

VAPDMSUS

VIOLET 涂层高精度钻头，用于钻削不锈钢(M)

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0890	8.90	80.8	135.8	134	1.8	10	●
VAPDMSUSD0895	8.95	80.9	135.9	134	1.9	10	●
VAPDMSUSD0900	9.00	80.9	135.9	134	1.9	10	●
VAPDMSUSD0910	9.10	80.9	135.9	134	1.9	10	●
VAPDMSUSD0920	9.20	80.9	135.9	134	1.9	10	●
VAPDMSUSD0930	9.30	80.9	135.9	134	1.9	10	●
VAPDMSUSD0940	9.40	81.0	136.0	134	2.0	10	●
VAPDMSUSD0950	9.50	81.0	136.0	134	2.0	10	●
VAPDMSUSD0960	9.60	87.0	142.0	140	2.0	10	●
VAPDMSUSD0970	9.70	87.0	142.0	140	2.0	10	●
VAPDMSUSD0980	9.80	87.0	142.0	140	2.0	10	●
VAPDMSUSD0990	9.90	87.1	142.1	140	2.1	10	●
VAPDMSUSD1000	10.0	87.1	142.1	140	2.1	10	●
VAPDMSUSD1010	10.1	87.1	147.1	145	2.1	12	●
VAPDMSUSD1020	10.2	87.1	147.1	145	2.1	12	●
VAPDMSUSD1030	10.3	87.1	147.1	145	2.1	12	●
VAPDMSUSD1040	10.4	87.2	147.2	145	2.2	12	●
VAPDMSUSD1050	10.5	87.2	147.2	145	2.2	12	●
VAPDMSUSD1060	10.6	87.2	147.2	145	2.2	12	●
VAPDMSUSD1070	10.7	94.2	154.2	152	2.2	12	●
VAPDMSUSD1080	10.8	94.2	154.2	152	2.2	12	●
VAPDMSUSD1090	10.9	94.3	154.3	152	2.3	12	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD1100	11.0	94.3	154.3	152	2.3	12	●
VAPDMSUSD1110	11.1	94.3	154.3	152	2.3	12	●
VAPDMSUSD1120	11.2	94.3	154.3	152	2.3	12	●
VAPDMSUSD1130	11.3	94.3	154.3	152	2.3	12	●
VAPDMSUSD1140	11.4	94.4	154.4	152	2.4	12	●
VAPDMSUSD1150	11.5	94.4	154.4	152	2.4	12	●
VAPDMSUSD1160	11.6	94.4	154.4	152	2.4	12	●
VAPDMSUSD1170	11.7	94.4	154.4	152	2.4	12	●
VAPDMSUSD1180	11.8	94.4	154.4	152	2.4	12	●
VAPDMSUSD1190	11.9	101.5	161.5	159	2.5	12	●
VAPDMSUSD1200	12.0	101.5	161.5	159	2.5	12	●
VAPDMSUSD1210	12.1	101.5	161.5	159	2.5	12	●
VAPDMSUSD1220	12.2	101.5	161.5	159	2.5	12	●
VAPDMSUSD1230	12.3	101.6	161.6	159	2.6	12	●
VAPDMSUSD1240	12.4	101.6	161.6	159	2.6	12	●
VAPDMSUSD1250	12.5	101.6	161.6	159	2.6	12	●
VAPDMSUSD1260	12.6	101.6	161.6	159	2.6	12	●
VAPDMSUSD1270	12.7	101.6	161.6	159	2.6	12	●
VAPDMSUSD1280	12.8	101.7	161.7	159	2.7	12	●
VAPDMSUSD1290	12.9	101.7	161.7	159	2.7	12	●
VAPDMSUSD1300	13.0	101.7	161.7	159	2.7	12	●

P

钻头

●：标准库存品

VAPDSSUS VAPDMSUS

VIOLET 涂层高精度钻头 不锈钢用 (S)/(M)

高速钢

推荐切削条件

工件材料	不锈钢				碳钢、合金钢 铸铁 铜、铜合金		结构钢 铝合金	
	奥氏体类		马氏体类 铁素体类		S50C、SCM、FC		SS400	
	SUS304、SUS316		SUS420、SUS430					
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
0.5	7600	0.01	8800	0.01	11250	0.01	15000	0.02
1.0	4800	0.02	6300	0.05	10000	0.05	12000	0.05
2.0	2400	0.04	3200	0.06	5500	0.09	6400	0.09
3.0	1600	0.07	2100	0.10	3700	0.13	4300	0.13
4.0	1200	0.09	1600	0.10	2800	0.15	3200	0.15
5.0	950	0.12	1300	0.13	2200	0.18	2600	0.18
6.0	800	0.14	1100	0.15	1800	0.20	2100	0.19
8.0	600	0.18	800	0.18	1400	0.22	1600	0.24
10.0	480	0.22	640	0.21	1100	0.25	1300	0.28
12.0	400	0.24	530	0.25	930	0.30	1100	0.34
13.0	370	0.26	490	0.28	860	0.32	1000	0.36
14.0	340	0.30	450	0.27	730	0.31	930	0.36
15.0	320	0.31	425	0.28	680	0.32	870	0.38
16.0	300	0.32	400	0.30	640	0.34	820	0.42
18.0	270	0.34	350	0.32	570	0.36	725	0.43
20.0	240	0.36	320	0.35	510	0.38	660	0.45

- 注1) 工件安装刚性差时,或机床条件有限制时,按照其情况,应降低进给量和转速。
注2) 请使用弹簧筒夹式钻夹头和铣夹头。
注3) 应使用足量的切削液。
注4) 加工析出硬化系不锈钢(SUS630、SUS631)推荐使用WSTAR钻头(MVE、MVS、MMS)。
注5) 孔深超过DC×4时,请采用步进方式加工。
注6) 上述切削条件是使用水溶性切削液的标准情况。
若使用非水溶性切削液时,应降低转速。

P

钻头



P

钢

M

不锈钢

K

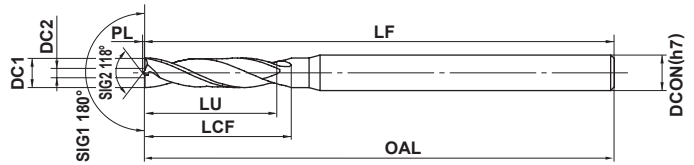
铸铁

N

有色金属

S

H



$$\text{※LU} = \text{LCF} - 2\text{DC} \quad (\text{Max } 3 \times \text{DC})$$



DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 18	18 < DC ≤ 30	30 < DC ≤ 32
0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033	0 -0.039

- 采用独创的形状, 可实现高效率的铤孔加工。
切屑分断性好, 铤孔后加工面的平面度优异。

型号	尺寸 (mm)							库存
	DC1	DC2	LCF	OAL	LF	PL	DCON	
VAPDSCBD0200	2.0	0.7	12	60.2	60	0.2	3	●
VAPDSCBD0210	2.1	0.7	12	60.2	60	0.2	3	●
VAPDSCBD0220	2.2	0.7	12	60.2	60	0.2	3	●
VAPDSCBD0230	2.3	0.7	13	60.2	60	0.2	3	●
VAPDSCBD0240	2.4	0.7	13	60.2	60	0.2	3	●
VAPDSCBD0250	2.5	0.7	13	60.2	60	0.2	3	●
VAPDSCBD0260	2.6	0.8	15	60.2	60	0.2	3	●
VAPDSCBD0270	2.7	0.8	15	60.2	60	0.2	3	●
VAPDSCBD0280	2.8	0.8	15	60.2	60	0.2	3	●
VAPDSCBD0290	2.9	0.8	15	60.2	60	0.2	3	●
VAPDSCBD0300	3.0	0.8	15	60.2	60	0.2	3	●
VAPDSCBD0310	3.1	0.8	17	70.2	70	0.2	4	●
VAPDSCBD0320	3.2	0.8	17	70.2	70	0.2	4	●
VAPDSCBD0330	3.3	0.8	19	70.2	70	0.2	4	●
VAPDSCBD0340	3.4	0.8	19	70.2	70	0.2	4	●
VAPDSCBD0350	3.5	0.8	19	70.2	70	0.2	4	●
VAPDSCBD0360	3.6	1.0	21	70.2	70	0.2	4	●
VAPDSCBD0370	3.7	1.0	21	70.2	70	0.2	4	●
VAPDSCBD0380	3.8	1.0	21	70.2	70	0.2	4	●
VAPDSCBD0390	3.9	1.0	21	70.2	70	0.2	4	●
VAPDSCBD0400	4.0	1.0	21	70.3	70	0.3	4	●
VAPDSCBD0410	4.1	1.0	21	80.3	80	0.3	6	●
VAPDSCBD0420	4.2	1.0	21	80.3	80	0.3	6	●
VAPDSCBD0430	4.3	1.0	23	80.3	80	0.3	6	●
VAPDSCBD0440	4.4	1.0	23	80.3	80	0.3	6	●
VAPDSCBD0450	4.5	1.0	23	80.3	80	0.3	6	●
VAPDSCBD0460	4.6	1.4	25	80.3	80	0.3	6	●
VAPDSCBD0470	4.7	1.4	25	80.3	80	0.3	6	●
VAPDSCBD0480	4.8	1.4	25	80.3	80	0.3	6	●
VAPDSCBD0490	4.9	1.4	25	80.3	80	0.3	6	●
VAPDSCBD0500	5.0	1.4	25	80.4	80	0.4	6	●
VAPDSCBD0510	5.1	1.4	25	80.4	80	0.4	6	●
VAPDSCBD0520	5.2	1.4	25	80.4	80	0.4	6	●
VAPDSCBD0530	5.3	1.4	25	80.4	80	0.4	6	●
VAPDSCBD0540	5.4	1.4	27	80.4	80	0.4	6	●
VAPDSCBD0550	5.5	1.4	27	80.4	80	0.4	6	●
VAPDSCBD0560	5.6	1.4	27	80.4	80	0.4	6	●
VAPDSCBD0570	5.7	1.4	27	80.4	80	0.4	6	●
VAPDSCBD0580	5.8	1.4	27	80.4	80	0.4	6	●
VAPDSCBD0590	5.9	1.4	27	80.4	80	0.4	6	●

型号	尺寸 (mm)							库存
	DC1	DC2	LCF	OAL	LF	PL	DCON	
VAPDSCBD0600	6.0	1.4	27	80.4	80	0.4	6	●
VAPDSCBD0610	6.1	1.4	30	80.4	80	0.4	8	●
VAPDSCBD0620	6.2	1.4	30	80.4	80	0.4	8	●
VAPDSCBD0630	6.3	1.4	30	80.4	80	0.4	8	●
VAPDSCBD0640	6.4	1.4	30	80.4	80	0.4	8	●
VAPDSCBD0650	6.5	1.4	30	80.4	80	0.4	8	●
VAPDSCBD0660	6.6	1.8	30	80.4	80	0.4	8	●
VAPDSCBD0670	6.7	1.8	30	80.4	80	0.4	8	●
VAPDSCBD0680	6.8	1.8	32	80.4	80	0.4	8	●
VAPDSCBD0690	6.9	1.8	32	80.4	80	0.4	8	●
VAPDSCBD0700	7.0	1.8	32	80.6	80	0.6	8	●
VAPDSCBD0710	7.1	1.8	32	80.6	80	0.6	8	●
VAPDSCBD0720	7.2	1.8	32	80.6	80	0.6	8	●
VAPDSCBD0730	7.3	1.8	32	80.6	80	0.6	8	●
VAPDSCBD0740	7.4	1.8	32	80.6	80	0.6	8	●
VAPDSCBD0750	7.5	1.8	32	80.6	80	0.6	8	●
VAPDSCBD0760	7.6	2.0	35	85.6	85	0.6	8	●
VAPDSCBD0770	7.7	2.0	35	85.6	85	0.6	8	●
VAPDSCBD0780	7.8	2.0	35	85.6	85	0.6	8	●
VAPDSCBD0790	7.9	2.0	35	85.6	85	0.6	8	●
VAPDSCBD0800	8.0	2.0	35	85.6	85	0.6	8	●
VAPDSCBD0810	8.1	2.0	35	90.6	90	0.6	10	●
VAPDSCBD0850	8.5	2.0	35	90.6	90	0.6	10	●
VAPDSCBD0860	8.6	2.8	38	93.6	93	0.6	10	●
VAPDSCBD0880	8.8	2.8	38	93.6	93	0.6	10	●
VAPDSCBD0900	9.0	2.8	38	93.8	93	0.8	10	●
VAPDSCBD0910	9.1	2.8	38	93.8	93	0.8	10	●
VAPDSCBD0950	9.5	2.8	38	93.8	93	0.8	10	●
VAPDSCBD0960	9.6	3.2	41	96.8	96	0.8	10	●
VAPDSCBD0980	9.8	3.2	41	96.8	96	0.8	10	●
VAPDSCBD1000	10.0	3.2	41	96.9	96	0.9	10	●
VAPDSCBD1010	10.1	3.2	41	101.9	101	0.9	12	●
VAPDSCBD1030	10.3	3.2	41	101.9	101	0.9	12	●
VAPDSCBD1050	10.5	3.2	41	101.9	101	0.9	12	●
VAPDSCBD1080	10.8	3.7	45	105.9	105	0.9	12	●
VAPDSCBD1100	11.0	3.7	45	105.9	105	0.9	12	●
VAPDSCBD1110	11.1	3.7	45	105.9	105	0.9	12	●
VAPDSCBD1150	11.5	3.7	45	105.9	105	0.9	12	●
VAPDSCBD1180	11.8	3.7	45	105.9	105	0.9	12	●
VAPDSCBD1200	12.0	3.7	49	109.9	109	0.9	12	●

●: 标准库存品

型号	尺寸 (mm)							库存
	DC1	DC2	LCF	OAL	LF	PL	DCON	
VAPDSCBD1250	12.5	3.7	49	109.9	109	0.9	12	●
VAPDSCBD1300	13.0	4.2	49	110.1	109	1.1	12	●
VAPDSCBD1350	13.5	4.2	51	122.1	121	1.1	16	●
VAPDSCBD1380	13.8	4.2	51	122.1	121	1.1	16	●
VAPDSCBD1400	14.0	4.2	51	122.1	121	1.1	16	●
VAPDSCBD1410	14.1	5.5	58	124.1	123	1.1	16	●
VAPDSCBD1420	14.2	5.5	58	124.1	123	1.1	16	●
VAPDSCBD1450	14.5	5.5	58	124.1	123	1.1	16	●
VAPDSCBD1480	14.8	5.5	58	124.1	123	1.1	16	●
VAPDSCBD1500	15.0	5.5	58	124.3	123	1.3	16	●
VAPDSCBD1550	15.5	5.5	60	126.3	125	1.3	16	●
VAPDSCBD1570	15.7	5.5	60	126.3	125	1.3	16	●
VAPDSCBD1580	15.8	5.5	60	126.3	125	1.3	16	●
VAPDSCBD1600	16.0	5.5	60	126.3	125	1.3	16	●
VAPDSCBD1700	17.0	5.5	62	133.3	132	1.3	20	●
VAPDSCBD1750	17.5	5.5	63	134.6	133	1.6	20	●
VAPDSCBD1760	17.6	6.5	63	134.6	133	1.6	20	●
VAPDSCBD1770	17.7	6.5	63	134.6	133	1.6	20	●
VAPDSCBD1780	17.8	6.5	63	134.6	133	1.6	20	●
VAPDSCBD1800	18.0	6.5	63	134.6	133	1.6	20	●

型号	尺寸 (mm)							库存
	DC1	DC2	LCF	OAL	LF	PL	DCON	
VAPDSCBD1810	18.1	6.5	65	136.6	135	1.6	20	●
VAPDSCBD1900	19.0	6.5	65	136.6	135	1.6	20	●
VAPDSCBD1980	19.8	7.5	67	138.6	137	1.6	20	●
VAPDSCBD2000	20.0	7.5	67	138.8	137	1.8	20	●
VAPDSCBD2010	20.1	7.5	67	138.8	137	1.8	20	●
VAPDSCBD2100	21.0	7.5	75	166.8	165	1.8	25	●
VAPDSCBD2200	22.0	7.5	75	166.8	165	1.8	25	●
VAPDSCBD2300	23.0	7.5	80	171.8	170	1.8	25	●
VAPDSCBD2400	24.0	8.5	80	172.2	170	2.2	25	●
VAPDSCBD2500	25.0	8.5	85	182.2	180	2.2	25	●
VAPDSCBD2600	26.0	9.0	85	182.2	180	2.2	32	●
VAPDSCBD2700	27.0	9.0	95	192.2	190	2.2	32	●
VAPDSCBD2800	28.0	10.0	95	192.6	190	2.6	32	●
VAPDSCBD2900	29.0	10.0	100	197.6	195	2.6	32	●
VAPDSCBD3000	30.0	11.0	100	197.6	195	2.6	32	●
VAPDSCBD3100	31.0	11.0	105	202.6	200	2.6	32	●
VAPDSCBD3200	32.0	13.0	105	202.6	200	2.6	32	●

推荐切削条件

工件材料	结构钢 铝合金		碳钢、合金钢 球墨铸铁		合金工具钢 (未处理材料) 铁素体类不锈钢 马氏体类不锈钢		合金工具钢 (—HRC40) 析出硬化类不锈钢	
	SS400		S50C、SCM、FCD		SKD11、SUS430、405、SUS420、440		SKD61、SUS630、631	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
2.0	5600	0.07	4800	0.07	3200	0.07	2800	0.04
3.0	3700	0.10	3200	0.10	2100	0.10	1900	0.05
4.0	2800	0.12	2400	0.12	1600	0.12	1400	0.06
5.0	2200	0.14	1900	0.14	1300	0.14	1150	0.07
6.0	1850	0.15	1600	0.15	1050	0.15	950	0.08
8.0	1400	0.20	1200	0.20	800	0.20	720	0.10
10.0	1100	0.23	960	0.23	640	0.21	570	0.11
12.0	950	0.26	800	0.26	530	0.24	470	0.12
14.0	800	0.27	680	0.27	450	0.25	410	0.13
16.0	700	0.28	500	0.28	360	0.26	300	0.14
18.0	620	0.29	450	0.29	320	0.27	260	0.15
20.0	560	0.30	400	0.30	290	0.27	240	0.15
22.0	510	0.32	360	0.32	260	0.29	220	0.16
24.0	460	0.33	330	0.33	240	0.30	200	0.16
26.0	430	0.35	310	0.35	220	0.31	180	0.17
28.0	400	0.36	290	0.36	210	0.33	170	0.18
30.0	370	0.37	270	0.37	190	0.34	160	0.18
32.0	350	0.38	250	0.38	180	0.35	150	0.19

注1) 以上所示的切削条件表适用于孔深DCx3、无底孔的情况。孔深DCx1以下时,可将转速提高至1.2倍。

注2) 推荐在无底孔的状态下加工。有底孔时切屑不分散。要求切屑分散时,请使用步进加工。

注3) 斜面的镗孔加工推荐使用硬质合金立铣刀。

注4) 奥氏体不锈钢(SUS304、SUS316)所含成分不同,切削性能也会有很大差异。
请采用上表加工不锈钢的转速的40%—70%,进给量的40%—60%进行加工。

注5) 请使用弹簧筒夹式钻夹头和铣夹头。

注6) 工件安装刚性差时,或机床条件有限制时,按照其情况,应降低进给量和转速。

注7) 应使用足量的切削液。

注8) 上述切削条件是使用水溶性切削液的标准情况。
若使用非水溶性切削液,请降低转速。

VIOLET涂层钻头

VSD

VIOLET 涂层直柄钻头



DC<0.7

DC≥0.7

DC<2

DC≥2

P

M

K

N

S

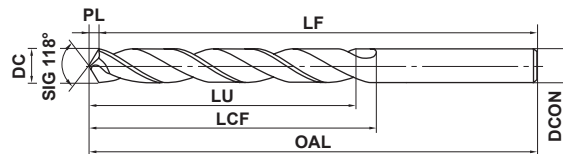
H

钢

不锈钢

铸铁

有色金属



※LU = LCF-2DC



0.5≤DC<1	1≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤13
0 -0.010	0 -0.014	0 -0.018	0 -0.022	0 -0.027

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VSDD0050	0.5	6.2	27.2	27	0.18	0.5	●
VSDD0060	0.6	7.2	30.2	30	0.21	0.6	●
VSDD0070	0.7	9.2	32.2	32	0.21	0.7	●
VSDD0080	0.8	10.2	34.2	34	0.24	0.8	●
VSDD0090	0.9	11.3	36.3	36	0.27	0.9	●
VSDD0100	1.0	12.3	40.3	40	0.3	1.0	●
VSDD0110	1.1	14.3	42.3	42	0.3	1.1	●
VSDD0120	1.2	16.4	42.4	42	0.4	1.2	●
VSDD0130	1.3	16.4	45.4	45	0.4	1.3	●
VSDD0140	1.4	18.4	48.4	48	0.4	1.4	●
VSDD0150	1.5	18.5	48.5	48	0.5	1.5	●
VSDD0160	1.6	20.5	50.5	50	0.5	1.6	●
VSDD0170	1.7	20.5	50.5	50	0.5	1.7	●
VSDD0180	1.8	22.5	52.5	52	0.5	1.8	●
VSDD0190	1.9	22.6	52.6	52	0.6	1.9	●
VSDD0200	2.0	23.6	55.6	55	0.6	2.0	●
VSDD0210	2.1	23.6	55.6	55	0.6	2.1	●
VSDD0220	2.2	26.7	58.7	58	0.7	2.2	●
VSDD0230	2.3	26.7	58.7	58	0.7	2.3	●
VSDD0240	2.4	29.7	61.7	61	0.7	2.4	●
VSDD0250	2.5	29.8	61.8	61	0.8	2.5	●
VSDD0260	2.6	29.8	64.8	64	0.8	2.6	●
VSDD0270	2.7	32.8	64.8	64	0.8	2.7	●
VSDD0280	2.8	32.8	67.8	67	0.8	2.8	●
VSDD0290	2.9	32.9	71.9	71	0.9	2.9	●
VSDD0300	3.0	32.9	71.9	71	0.9	3.0	●
VSDD0310	3.1	35.9	71.9	71	0.9	3.1	●
VSDD0320	3.2	36.0	72.0	71	1.0	3.2	●
VSDD0330	3.3	36.0	74.0	73	1.0	3.3	●
VSDD0340	3.4	39.0	74.0	73	1.0	3.4	●
VSDD0350	3.5	39.1	74.1	73	1.1	3.5	●
VSDD0360	3.6	39.1	77.1	76	1.1	3.6	●
VSDD0370	3.7	39.1	77.1	76	1.1	3.7	●
VSDD0380	3.8	43.1	77.1	76	1.1	3.8	●
VSDD0390	3.9	43.2	80.2	79	1.2	3.9	●
VSDD0400	4.0	43.2	84.2	83	1.2	4.0	●
VSDD0410	4.1	43.2	84.2	83	1.2	4.1	●
VSDD0420	4.2	43.3	84.3	83	1.3	4.2	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VSDD0430	4.3	47.3	84.3	83	1.3	4.3	●
VSDD0440	4.4	47.3	87.3	86	1.3	4.4	●
VSDD0450	4.5	47.4	87.4	86	1.4	4.5	●
VSDD0460	4.6	47.4	87.4	86	1.4	4.6	●
VSDD0470	4.7	47.4	90.4	89	1.4	4.7	●
VSDD0480	4.8	52.4	90.4	89	1.4	4.8	●
VSDD0490	4.9	52.5	93.5	92	1.5	4.9	●
VSDD0500	5.0	52.5	93.5	92	1.5	5.0	●
VSDD0510	5.1	52.5	93.5	92	1.5	5.1	●
VSDD0520	5.2	52.6	96.6	95	1.6	5.2	●
VSDD0530	5.3	52.6	96.6	95	1.6	5.3	●
VSDD0540	5.4	57.6	96.6	95	1.6	5.4	●
VSDD0550	5.5	57.7	96.7	95	1.7	5.5	●
VSDD0560	5.6	57.7	99.7	98	1.7	5.6	●
VSDD0570	5.7	57.7	99.7	98	1.7	5.7	●
VSDD0580	5.8	57.7	99.7	98	1.7	5.8	●
VSDD0590	5.9	57.8	99.8	98	1.8	5.9	●
VSDD0600	6.0	57.8	103.8	102	1.8	6.0	●
VSDD0610	6.1	63.8	103.8	102	1.8	6.1	●
VSDD0620	6.2	63.9	103.9	102	1.9	6.2	●
VSDD0630	6.3	63.9	103.9	102	1.9	6.3	●
VSDD0640	6.4	63.9	106.9	105	1.9	6.4	●
VSDD0650	6.5	64.0	107.0	105	2.0	6.5	●
VSDD0660	6.6	64.0	107.0	105	2.0	6.6	●
VSDD0670	6.7	64.0	107.0	105	2.0	6.7	●
VSDD0680	6.8	69.0	107.0	105	2.0	6.8	●
VSDD0690	6.9	69.1	107.1	105	2.1	6.9	●
VSDD0700	7.0	69.1	107.1	105	2.1	7.0	●
VSDD0710	7.1	69.1	110.1	108	2.1	7.1	●
VSDD0720	7.2	69.2	110.2	108	2.2	7.2	●
VSDD0730	7.3	69.2	110.2	108	2.2	7.3	●
VSDD0740	7.4	69.2	113.2	111	2.2	7.4	●
VSDD0750	7.5	69.3	113.3	111	2.3	7.5	●
VSDD0760	7.6	75.3	113.3	111	2.3	7.6	●
VSDD0770	7.7	75.3	116.3	114	2.3	7.7	●
VSDD0780	7.8	75.3	116.3	114	2.3	7.8	●
VSDD0790	7.9	75.4	116.4	114	2.4	7.9	●
VSDD0800	8.0	75.4	116.4	114	2.4	8.0	●

注1) 到ø0.5 — ø1.9位置,有5只, ø2.0以上有1只。

●: 标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VSDD0810	8.1	75.4	119.4	117	2.4	8.1	●
VSDD0820	8.2	75.5	119.5	117	2.5	8.2	●
VSDD0830	8.3	75.5	119.5	117	2.5	8.3	●
VSDD0840	8.4	75.5	123.5	121	2.5	8.4	●
VSDD0850	8.5	75.6	123.6	121	2.6	8.5	●
VSDD0860	8.6	81.6	123.6	121	2.6	8.6	●
VSDD0870	8.7	81.6	123.6	121	2.6	8.7	●
VSDD0880	8.8	81.6	126.6	124	2.6	8.8	●
VSDD0890	8.9	81.7	126.7	124	2.7	8.9	●
VSDD0900	9.0	81.7	126.7	124	2.7	9.0	●
VSDD0910	9.1	81.7	126.7	124	2.7	9.1	●
VSDD0920	9.2	81.8	129.8	127	2.8	9.2	●
VSDD0930	9.3	81.8	129.8	127	2.8	9.3	●
VSDD0940	9.4	81.8	129.8	127	2.8	9.4	●
VSDD0950	9.5	81.9	129.9	127	2.9	9.5	●
VSDD0960	9.6	87.9	132.9	130	2.9	9.6	●
VSDD0970	9.7	87.9	132.9	130	2.9	9.7	●
VSDD0980	9.8	87.9	132.9	130	2.9	9.8	●
VSDD0990	9.9	88.0	133.0	130	3.0	9.9	●
VSDD1000	10.0	88.0	133.0	130	3.0	10.0	●
VSDD1010	10.1	88.0	136.0	133	3.0	10.1	●
VSDD1020	10.2	88.1	136.1	133	3.1	10.2	●
VSDD1030	10.3	88.1	136.1	133	3.1	10.3	●
VSDD1040	10.4	88.1	136.1	133	3.1	10.4	●
VSDD1050	10.5	88.2	140.2	137	3.2	10.5	●
VSDD1060	10.6	88.2	140.2	137	3.2	10.6	●
VSDD1070	10.7	95.2	140.2	137	3.2	10.7	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
VSDD1080	10.8	95.2	143.2	140	3.2	10.8	●
VSDD1090	10.9	95.3	143.3	140	3.3	10.9	●
VSDD1100	11.0	95.3	143.3	140	3.3	11.0	●
VSDD1110	11.1	95.3	143.3	140	3.3	11.1	●
VSDD1120	11.2	95.4	146.4	143	3.4	11.2	●
VSDD1130	11.3	95.4	146.4	143	3.4	11.3	●
VSDD1140	11.4	95.4	146.4	143	3.4	11.4	●
VSDD1150	11.5	95.5	146.5	143	3.5	11.5	●
VSDD1160	11.6	95.5	149.5	146	3.5	11.6	●
VSDD1170	11.7	95.5	149.5	146	3.5	11.7	●
VSDD1180	11.8	95.5	149.5	146	3.5	11.8	●
VSDD1190	11.9	102.6	149.6	146	3.6	11.9	●
VSDD1200	12.0	102.6	152.6	149	3.6	12.0	●
VSDD1210	12.1	102.6	152.6	149	3.6	12.1	●
VSDD1220	12.2	102.7	152.7	149	3.7	12.2	●
VSDD1230	12.3	102.7	152.7	149	3.7	12.3	●
VSDD1240	12.4	102.7	155.7	152	3.7	12.4	●
VSDD1250	12.5	102.8	155.8	152	3.8	12.5	●
VSDD1260	12.6	102.8	155.8	152	3.8	12.6	●
VSDD1270	12.7	102.8	155.8	152	3.8	12.7	●
VSDD1280	12.8	102.8	155.8	152	3.8	12.8	●
VSDD1290	12.9	102.9	155.9	152	3.9	12.9	●
VSDD1300	13.0	102.9	155.9	152	3.9	13.0	●

推荐切削条件

工件材料	结构钢		碳钢		不锈钢		不锈钢 工具钢 (未处理材料) 调质钢 (—HRC40) SUS304、SKD11、SKD61	
	SS400		S50C		SUS420			
切削速度	40m/min		30m/min		20m/min		10—14m/min	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
0.5	15000	0.01	11250	0.01	7500	0.01	5620	0.01
1.0	10000	0.02	7500	0.02	5000	0.02	3750	0.02
1.5	8200	0.03	6150	0.03	4100	0.03	2800	0.03
2.0	6370	0.05	4780	0.05	3180	0.05	2200	0.04
3.0	4250	0.10	3180	0.10	2120	0.07	1400	0.06
4.0	3180	0.13	2390	0.13	1590	0.09	1100	0.08
5.0	2550	0.15	1910	0.15	1270	0.11	860	0.10
6.0	2120	0.18	1590	0.18	1060	0.13	720	0.11
7.0	1820	0.20	1360	0.20	910	0.14	610	0.12
8.0	1590	0.22	1190	0.21	800	0.15	540	0.13
9.0	1420	0.24	1060	0.22	710	0.17	480	0.14
10.0	1270	0.26	960	0.23	640	0.18	430	0.15
11.0	1160	0.28	870	0.24	580	0.19	390	0.16
12.0	1060	0.30	800	0.25	530	0.20	360	0.17
13.0	980	0.30	730	0.26	490	0.20	330	0.17

- 注1) 工件安装刚性差时,请据实际加工条件降低转速。
 注2) 钻削孔深超过DC×3的深孔加工,使用步进进给钻削,并请降低切削条件。
 注3) 上述切削条件是使用水溶性切削液的标准情况。
 若使用非水溶性切削液,请降低转速。



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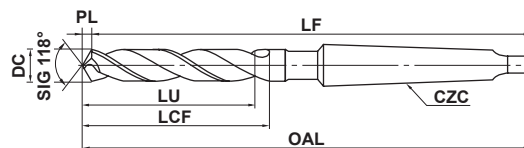
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※LU = LCF-2DC



DC=6	6<DC≤10	10<DC≤18	18<DC≤30	30<DC≤32
0 -0.018	0 -0.022	0 -0.027	0 -0.033	0 -0.039

型号	尺寸 (mm)					CZC	库存
	DC	LCF	OAL	LF	PL		
VTDS0600M1	6.0	45.8	127.8	126	1.8	MT.1	●
VTDS0650M1	6.5	46.0	128.0	126	2.0	MT.1	●
VTDS0660M1	6.6	46.0	128.0	126	2.0	MT.1	●
VTDS0680M1	6.8	46.0	128.0	126	2.0	MT.1	●
VTDS0700M1	7.0	46.1	128.1	126	2.1	MT.1	●
VTDS0720M1	7.2	46.2	128.2	126	2.2	MT.1	●
VTDS0750M1	7.5	46.3	128.3	126	2.3	MT.1	●
VTDS0770M1	7.7	50.3	132.3	130	2.3	MT.1	●
VTDS0780M1	7.8	50.3	132.3	130	2.3	MT.1	●
VTDS0800M1	8.0	50.4	132.4	130	2.4	MT.1	●
VTDS0820M1	8.2	50.5	132.5	130	2.5	MT.1	●
VTDS0850M1	8.5	50.6	132.6	130	2.6	MT.1	●
VTDS0880M1	8.8	54.6	135.6	133	2.6	MT.1	●
VTDS0900M1	9.0	54.7	135.7	133	2.7	MT.1	●
VTDS0950M1	9.5	54.9	135.9	133	2.9	MT.1	●
VTDS0970M1	9.7	58.9	139.9	137	2.9	MT.1	●
VTDS0980M1	9.8	58.9	139.9	137	2.9	MT.1	●
VTDS1000M1	10.0	59.0	140.0	137	3.0	MT.1	●
VTDS1030M1	10.3	59.1	140.1	137	3.1	MT.1	●
VTDS1050M1	10.5	59.2	140.2	137	3.2	MT.1	●
VTDS1080M1	10.8	64.2	145.2	142	3.2	MT.1	●
VTDS1100M1	11.0	64.3	145.3	142	3.3	MT.1	●
VTDS1150M1	11.5	64.5	145.5	142	3.5	MT.1	●
VTDS1200M1	12.0	69.6	149.6	146	3.6	MT.1	●
VTDS1250M2	12.5	69.8	166.8	163	3.8	MT.2	●
VTDS1300M2	13.0	69.9	166.9	163	3.9	MT.2	●
VTDS1350M2	13.5	74.1	172.1	168	4.1	MT.2	●
VTDS1400M2	14.0	74.2	172.2	168	4.2	MT.2	●
VTDS1450M2	14.5	77.4	175.4	171	4.4	MT.2	●
VTDS1500M2	15.0	77.5	175.5	171	4.5	MT.2	●
VTDS1550M2	15.5	81.7	179.7	175	4.7	MT.2	●
VTDS1600M2	16.0	81.8	179.8	175	4.8	MT.2	●

型号	尺寸 (mm)					CZC	库存
	DC	LCF	OAL	LF	PL		
VTDS1650M2	16.5	85.0	183.0	178	5.0	MT.2	●
VTDS1700M2	17.0	85.1	183.1	178	5.1	MT.2	●
VTDS1750M2	17.5	89.3	187.3	182	5.3	MT.2	●
VTDS1800M2	18.0	89.4	187.4	182	5.4	MT.2	●
VTDS1850M2	18.5	91.6	189.6	184	5.6	MT.2	●
VTDS1900M2	19.0	91.7	189.7	184	5.7	MT.2	●
VTDS1950M2	19.5	95.9	193.9	188	5.9	MT.2	●
VTDS2000M2	20.0	96.0	194.0	188	6.0	MT.2	●
VTDS2050M2	20.5	99.2	197.2	191	6.2	MT.2	●
VTDS2100M2	21.0	99.3	197.3	191	6.3	MT.2	●
VTDS2150M2	21.5	102.5	200.5	194	6.5	MT.2	●
VTDS2200M2	22.0	102.6	200.6	194	6.6	MT.2	●
VTDS2250M2	22.5	106.8	204.8	198	6.8	MT.2	●
VTDS2300M2	23.0	106.9	204.9	198	6.9	MT.2	●
VTDS2350M3	23.5	109.1	231.1	224	7.1	MT.3	●
VTDS2400M3	24.0	109.2	231.2	224	7.2	MT.3	●
VTDS2450M3	24.5	109.4	231.4	224	7.4	MT.3	●
VTDS2500M3	25.0	109.5	231.5	224	7.5	MT.3	●
VTDS2550M3	25.5	112.7	233.7	226	7.7	MT.3	●
VTDS2600M3	26.0	112.8	233.8	226	7.8	MT.3	●
VTDS2650M3	26.5	113.0	234.0	226	8.0	MT.3	●
VTDS2700M3	27.0	116.1	238.1	230	8.1	MT.3	●
VTDS2750M3	27.5	116.3	238.3	230	8.3	MT.3	●
VTDS2800M3	28.0	116.4	238.4	230	8.4	MT.3	●
VTDS2850M3	28.5	119.6	240.6	232	8.6	MT.3	●
VTDS2900M3	29.0	119.7	240.7	232	8.7	MT.3	●
VTDS2950M3	29.5	119.9	240.9	232	8.9	MT.3	●
VTDS3000M3	30.0	120.0	241.0	232	9.0	MT.3	●
VTDS3050M3	30.5	123.2	244.2	235	9.2	MT.3	●
VTDS3100M3	31.0	123.3	244.3	235	9.3	MT.3	●
VTDS3150M3	31.5	123.5	244.5	235	9.5	MT.3	●
VTDS3200M3	32.0	123.6	244.6	235	9.6	MT.3	●

●：标准库存品

推荐切削条件

工件材料	结构钢 SS400		碳钢 S50C		不锈钢 SUS420 铜合金、黄铜等		不锈钢 SUS304 工具钢 SKD11（未处理材料）		调质钢 SKD61 （HRC35—40）	
切削速度	33—38m/min		28—33m/min		20m/min		15m/min		18m/min	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
6.0	2000	0.18	1750	0.18	1060	0.15	800	0.12	950	0.12
8.0	1400	0.22	1270	0.22	800	0.20	600	0.15	720	0.15
10.0	1100	0.25	960	0.25	640	0.22	480	0.18	570	0.18
14.0	790	0.30	680	0.28	450	0.25	340	0.23	410	0.23
18.0	610	0.35	530	0.34	350	0.30	270	0.27	320	0.27
20.0	540	0.40	480	0.38	320	0.33	240	0.30	280	0.30
22.0	480	0.42	430	0.40	290	0.35	220	0.30	260	0.30
24.0	430	0.42	380	0.40	260	0.35	200	0.30	240	0.30
28.0	370	0.45	330	0.42	220	0.38	170	0.33	200	0.33
32.0	320	0.45	280	0.42	200	0.38	150	0.33	180	0.33

注1) 上述切削条件是使用水溶性切削液的标准情况。
若使用非水溶性切削液,请降低转速。

直柄钻头

GSD

G型直柄钻头



DC<0.7

DC≥0.7

DC<2

DC≥2

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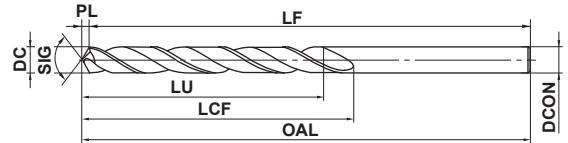
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※LU = LCF-2DC



0.5≤DC<1	1≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤13
0 -0.010	0 -0.014	0 -0.018	0 -0.022	0 -0.027

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GSDD0050	0.5	6.2	27.2	27	0.18	0.5	●
GSDD0060	0.6	7.2	30.2	30	0.21	0.6	●
GSDD0070	0.7	9.2	32.2	32	0.21	0.7	●
GSDD0080	0.8	10.2	34.2	34	0.24	0.8	●
GSDD0090	0.9	11.3	36.3	36	0.27	0.9	●
GSDD0100	1.0	12.3	40.3	40	0.3	1.0	●
GSDD0110	1.1	14.3	42.3	42	0.3	1.1	●
GSDD0120	1.2	16.4	42.4	42	0.4	1.2	●
GSDD0130	1.3	16.4	45.4	45	0.4	1.3	●
GSDD0140	1.4	18.4	48.4	48	0.4	1.4	●
GSDD0150	1.5	18.5	48.5	48	0.5	1.5	●
GSDD0160	1.6	20.5	50.5	50	0.5	1.6	●
GSDD0170	1.7	20.5	50.5	50	0.5	1.7	●
GSDD0180	1.8	22.5	52.5	52	0.5	1.8	●
GSDD0190	1.9	22.6	52.6	52	0.6	1.9	●
GSDD0200	2.0	23.6	55.6	55	0.6	2.0	●
GSDD0210	2.1	23.6	55.6	55	0.6	2.1	●
GSDD0220	2.2	26.7	58.7	58	0.7	2.2	●
GSDD0230	2.3	26.7	58.7	58	0.7	2.3	●
GSDD0240	2.4	29.7	61.7	61	0.7	2.4	●
GSDD0250	2.5	29.8	61.8	61	0.8	2.5	●
GSDD0260	2.6	29.8	64.8	64	0.8	2.6	●
GSDD0270	2.7	32.8	64.8	64	0.8	2.7	●
GSDD0280	2.8	32.8	67.8	67	0.8	2.8	●
GSDD0290	2.9	32.9	71.9	71	0.9	2.9	●
GSDD0300	3.0	32.9	71.9	71	0.9	3.0	●
GSDD0310	3.1	35.9	71.9	71	0.9	3.1	●
GSDD0320	3.2	36.0	72.0	71	1.0	3.2	●
GSDD0330	3.3	36.0	74.0	73	1.0	3.3	●
GSDD0340	3.4	39.0	74.0	73	1.0	3.4	●
GSDD0350	3.5	39.1	74.1	73	1.1	3.5	●
GSDD0360	3.6	39.1	77.1	76	1.1	3.6	●
GSDD0370	3.7	39.1	77.1	76	1.1	3.7	●
GSDD0380	3.8	43.1	77.1	76	1.1	3.8	●
GSDD0390	3.9	43.2	80.2	79	1.2	3.9	●
GSDD0400	4.0	43.2	84.2	83	1.2	4.0	●
GSDD0410	4.1	43.2	84.2	83	1.2	4.1	●
GSDD0420	4.2	43.3	84.3	83	1.3	4.2	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GSDD0430	4.3	47.3	84.3	83	1.3	4.3	●
GSDD0440	4.4	47.3	87.3	86	1.3	4.4	●
GSDD0450	4.5	47.4	87.4	86	1.4	4.5	●
GSDD0460	4.6	47.4	87.4	86	1.4	4.6	●
GSDD0470	4.7	47.4	90.4	89	1.4	4.7	●
GSDD0480	4.8	52.4	90.4	89	1.4	4.8	●
GSDD0490	4.9	52.5	93.5	92	1.5	4.9	●
GSDD0500	5.0	52.5	93.5	92	1.5	5.0	●
GSDD0510	5.1	52.5	93.5	92	1.5	5.1	●
GSDD0520	5.2	52.6	96.6	95	1.6	5.2	●
GSDD0530	5.3	52.6	96.6	95	1.6	5.3	●
GSDD0540	5.4	57.6	96.6	95	1.6	5.4	●
GSDD0550	5.5	57.7	96.7	95	1.7	5.5	●
GSDD0560	5.6	57.7	99.7	98	1.7	5.6	●
GSDD0570	5.7	57.7	99.7	98	1.7	5.7	●
GSDD0580	5.8	57.7	99.7	98	1.7	5.8	●
GSDD0590	5.9	57.8	99.8	98	1.8	5.9	●
GSDD0600	6.0	57.8	103.8	102	1.8	6.0	●
GSDD0610	6.1	63.8	103.8	102	1.8	6.1	●
GSDD0620	6.2	63.9	103.9	102	1.9	6.2	●
GSDD0630	6.3	63.9	103.9	102	1.9	6.3	●
GSDD0640	6.4	63.9	106.9	105	1.9	6.4	●
GSDD0650	6.5	64.0	107.0	105	2.0	6.5	●
GSDD0660	6.6	64.0	107.0	105	2.0	6.6	●
GSDD0670	6.7	64.0	107.0	105	2.0	6.7	●
GSDD0680	6.8	69.0	107.0	105	2.0	6.8	●
GSDD0690	6.9	69.1	107.1	105	2.1	6.9	●
GSDD0700	7.0	69.1	107.1	105	2.1	7.0	●
GSDD0710	7.1	69.1	110.1	108	2.1	7.1	●
GSDD0720	7.2	69.2	110.2	108	2.2	7.2	●
GSDD0730	7.3	69.2	110.2	108	2.2	7.3	●
GSDD0740	7.4	69.2	113.2	111	2.2	7.4	●
GSDD0750	7.5	69.3	113.3	111	2.3	7.5	●
GSDD0760	7.6	75.3	113.3	111	2.3	7.6	●
GSDD0770	7.7	75.3	116.3	114	2.3	7.7	●
GSDD0780	7.8	75.3	116.3	114	2.3	7.8	●
GSDD0790	7.9	75.4	116.4	114	2.4	7.9	●
GSDD0800	8.0	75.4	116.4	114	2.4	8.0	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GSDD0810	8.1	75.4	119.4	117	2.4	8.1	●
GSDD0820	8.2	75.5	119.5	117	2.5	8.2	●
GSDD0830	8.3	75.5	119.5	117	2.5	8.3	●
GSDD0840	8.4	75.5	123.5	121	2.5	8.4	●
GSDD0850	8.5	75.6	123.6	121	2.6	8.5	●
GSDD0860	8.6	81.6	123.6	121	2.6	8.6	●
GSDD0870	8.7	81.6	123.6	121	2.6	8.7	●
GSDD0880	8.8	81.6	126.6	124	2.6	8.8	●
GSDD0890	8.9	81.7	126.7	124	2.7	8.9	●
GSDD0900	9.0	81.7	126.7	124	2.7	9.0	●
GSDD0910	9.1	81.7	126.7	124	2.7	9.1	●
GSDD0920	9.2	81.8	129.8	127	2.8	9.2	●
GSDD0930	9.3	81.8	129.8	127	2.8	9.3	●
GSDD0940	9.4	81.8	129.8	127	2.8	9.4	●
GSDD0950	9.5	81.9	129.9	127	2.9	9.5	●
GSDD0960	9.6	87.9	132.9	130	2.9	9.6	●
GSDD0970	9.7	87.9	132.9	130	2.9	9.7	●
GSDD0980	9.8	87.9	132.9	130	2.9	9.8	●
GSDD0990	9.9	88.0	133.0	130	3.0	9.9	●
GSDD1000	10.0	88.0	133.0	130	3.0	10.0	●
GSDD1010	10.1	88.0	136.0	133	3.0	10.1	●
GSDD1020	10.2	88.1	136.1	133	3.1	10.2	●
GSDD1030	10.3	88.1	136.1	133	3.1	10.3	●
GSDD1040	10.4	88.1	136.1	133	3.1	10.4	●
GSDD1050	10.5	88.2	140.2	137	3.2	10.5	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GSDD1060	10.6	88.2	140.2	137	3.2	10.6	●
GSDD1070	10.7	95.2	140.2	137	3.2	10.7	●
GSDD1080	10.8	95.2	143.2	140	3.2	10.8	●
GSDD1090	10.9	95.3	143.3	140	3.3	10.9	●
GSDD1100	11.0	95.3	143.3	140	3.3	11.0	●
GSDD1110	11.1	95.3	143.3	140	3.3	11.1	●
GSDD1120	11.2	95.4	146.4	143	3.4	11.2	●
GSDD1130	11.3	95.4	146.4	143	3.4	11.3	●
GSDD1140	11.4	95.4	146.4	143	3.4	11.4	●
GSDD1150	11.5	95.5	146.5	143	3.5	11.5	●
GSDD1160	11.6	95.5	149.5	146	3.5	11.6	●
GSDD1170	11.7	95.5	149.5	146	3.5	11.7	●
GSDD1180	11.8	95.6	149.6	146	3.6	11.8	●
GSDD1190	11.9	102.6	149.6	146	3.6	11.9	●
GSDD1200	12.0	102.6	152.6	149	3.6	12.0	●
GSDD1210	12.1	102.6	152.6	149	3.6	12.1	●
GSDD1220	12.2	102.7	152.7	149	3.7	12.2	●
GSDD1230	12.3	102.7	152.7	149	3.7	12.3	●
GSDD1240	12.4	102.7	155.7	152	3.7	12.4	●
GSDD1250	12.5	102.8	155.8	152	3.8	12.5	●
GSDD1260	12.6	102.8	155.8	152	3.8	12.6	●
GSDD1270	12.7	102.8	155.8	152	3.8	12.7	●
GSDD1280	12.8	102.9	155.9	152	3.9	12.8	●
GSDD1290	12.9	102.9	155.9	152	3.9	12.9	●
GSDD1300	13.0	102.9	155.9	152	3.9	13.0	●

直柄钻头

SD

直柄钻头



P

钢

M

不锈钢

K

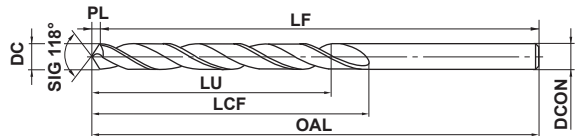
铸铁

N

有色金属

S

H



※LU = LCF-2DC



0.2≤DC<1	1≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤17.5
0 -0.012	0 -0.014	0 -0.018	0 -0.022	0 -0.027

● 钻削一般孔用。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDD0020	0.2	2.6	19.1	19	0.06	0.2	●
SDD0030	0.3	3.1	19.1	19	0.09	0.3	●
SDD0040	0.4	5.1	20.1	20	0.12	0.4	●
SDD0050	0.5	6.2	22.2	22	0.15	0.5	●
SDD0060	0.6	7.2	24.2	24	0.18	0.6	●
SDD0070	0.7	10.2	32.2	32	0.21	0.7	●
SDD0080	0.8	11.2	34.2	34	0.24	0.8	●
SDD0090	0.9	13.3	36.3	36	0.27	0.9	●
SDD0100	1.0	18.3	40.3	40	0.3	1.0	●
SDD0110	1.1	20.3	42.3	42	0.3	1.1	●
SDD0120	1.2	20.4	42.4	42	0.4	1.2	●
SDD0130	1.3	22.4	45.4	45	0.4	1.3	●
SDD0140	1.4	23.4	48.4	48	0.4	1.4	●
SDD0150	1.5	23.5	48.5	48	0.5	1.5	●
SDD0160	1.6	25.5	50.5	50	0.5	1.6	●
SDD0170	1.7	25.5	50.5	50	0.5	1.7	●
SDD0180	1.8	28.5	52.5	52	0.5	1.8	●
SDD0190	1.9	28.6	52.6	52	0.6	1.9	●
SDD0200	2.0	29.6	55.6	55	0.6	2.0	●
SDD0210	2.1	29.6	55.6	55	0.6	2.1	●
SDD0220	2.2	33.7	58.7	58	0.7	2.2	●
SDD0230	2.3	33.7	58.7	58	0.7	2.3	●
SDD0240	2.4	35.7	61.7	61	0.7	2.4	●
SDD0250	2.5	35.8	61.8	61	0.8	2.5	●
SDD0260	2.6	37.8	64.8	64	0.8	2.6	●
SDD0270	2.7	37.8	64.8	64	0.8	2.7	●
SDD0280	2.8	39.8	67.8	67	0.8	2.8	●
SDD0290	2.9	42.9	71.9	71	0.9	2.9	●
SDD0300	3.0	42.9	71.9	71	0.9	3.0	●
SDD0310	3.1	42.9	71.9	71	0.9	3.1	●
SDD0320	3.2	43.0	72.0	71	1.0	3.2	●
SDD0330	3.3	46.0	74.0	73	1.0	3.3	●
SDD0340	3.4	46.0	74.0	73	1.0	3.4	●
SDD0350	3.5	46.1	74.1	73	1.1	3.5	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDD0360	3.6	49.1	77.1	76	1.1	3.6	●
SDD0370	3.7	49.1	77.1	76	1.1	3.7	●
SDD0380	3.8	49.1	77.1	76	1.1	3.8	●
SDD0390	3.9	52.2	80.2	79	1.2	3.9	●
SDD0400	4.0	55.2	84.2	83	1.2	4.0	●
SDD0410	4.1	55.2	84.2	83	1.2	4.1	●
SDD0420	4.2	55.3	84.3	83	1.3	4.2	●
SDD0430	4.3	55.3	84.3	83	1.3	4.3	●
SDD0440	4.4	57.3	87.3	86	1.3	4.4	●
SDD0450	4.5	57.4	87.4	86	1.4	4.5	●
SDD0460	4.6	57.4	87.4	86	1.4	4.6	●
SDD0470	4.7	60.4	90.4	89	1.4	4.7	●
SDD0480	4.8	60.4	90.4	89	1.4	4.8	●
SDD0490	4.9	63.5	93.5	92	1.5	4.9	●
SDD0500	5.0	63.5	93.5	92	1.5	5.0	●
SDD0510	5.1	63.5	93.5	92	1.5	5.1	●
SDD0520	5.2	65.6	96.6	95	1.6	5.2	●
SDD0530	5.3	65.6	96.6	95	1.6	5.3	●
SDD0540	5.4	65.6	96.6	95	1.6	5.4	●
SDD0550	5.5	65.7	96.7	95	1.7	5.5	●
SDD0560	5.6	68.7	99.7	98	1.7	5.6	●
SDD0570	5.7	68.7	99.7	98	1.7	5.7	●
SDD0580	5.8	68.7	99.7	98	1.7	5.8	●
SDD0590	5.9	68.8	99.8	98	1.8	5.9	●
SDD0600	6.0	71.8	103.8	102	1.8	6.0	●
SDD0610	6.1	71.8	103.8	102	1.8	6.1	●
SDD0620	6.2	71.9	103.9	102	1.9	6.2	●
SDD0630	6.3	71.9	103.9	102	1.9	6.3	●
SDD0640	6.4	74.9	106.9	105	1.9	6.4	●
SDD0650	6.5	75.0	107.0	105	2.0	6.5	●
SDD0660	6.6	75.0	107.0	105	2.0	6.6	●
SDD0670	6.7	75.0	107.0	105	2.0	6.7	●
SDD0680	6.8	75.0	107.0	105	2.0	6.8	●
SDD0690	6.9	75.1	107.1	105	2.1	6.9	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDD0700	7.0	75.1	107.1	105	2.1	7.0	●
SDD0710	7.1	77.1	110.1	108	2.1	7.1	●
SDD0720	7.2	77.2	110.2	108	2.2	7.2	●
SDD0730	7.3	77.2	110.2	108	2.2	7.3	●
SDD0740	7.4	80.2	113.2	111	2.2	7.4	●
SDD0750	7.5	80.3	113.3	111	2.3	7.5	●
SDD0760	7.6	80.3	113.3	111	2.3	7.6	●
SDD0770	7.7	83.3	116.3	114	2.3	7.7	●
SDD0780	7.8	83.3	116.3	114	2.3	7.8	●
SDD0790	7.9	83.4	116.4	114	2.4	7.9	●
SDD0800	8.0	83.4	116.4	114	2.4	8.0	●
SDD0810	8.1	86.4	119.4	117	2.4	8.1	●
SDD0820	8.2	86.5	119.5	117	2.5	8.2	●
SDD0830	8.3	86.5	119.5	117	2.5	8.3	●
SDD0840	8.4	89.5	123.5	121	2.5	8.4	●
SDD0850	8.5	89.6	123.6	121	2.6	8.5	●
SDD0860	8.6	89.6	123.6	121	2.6	8.6	●
SDD0870	8.7	89.6	123.6	121	2.6	8.7	●
SDD0880	8.8	91.6	126.6	124	2.6	8.8	●
SDD0890	8.9	91.7	126.7	124	2.7	8.9	●
SDD0900	9.0	91.7	126.7	124	2.7	9.0	●
SDD0910	9.1	91.7	126.7	124	2.7	9.1	●
SDD0920	9.2	94.8	129.8	127	2.8	9.2	●
SDD0930	9.3	94.8	129.8	127	2.8	9.3	●
SDD0940	9.4	94.8	129.8	127	2.8	9.4	●
SDD0950	9.5	94.9	129.9	127	2.9	9.5	●
SDD0960	9.6	97.9	132.9	130	2.9	9.6	●
SDD0970	9.7	97.9	132.9	130	2.9	9.7	●
SDD0980	9.8	97.9	132.9	130	2.9	9.8	●
SDD0990	9.9	98.0	133.0	130	3.0	9.9	●
SDD1000	10.0	98.0	133.0	130	3.0	10.0	●
SDD1010	10.1	101.0	136.0	133	3.0	10.1	●
SDD1020	10.2	101.1	136.1	133	3.1	10.2	●
SDD1030	10.3	101.1	136.1	133	3.1	10.3	●
SDD1040	10.4	101.1	136.1	133	3.1	10.4	●
SDD1050	10.5	103.2	140.2	137	3.2	10.5	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDD1060	10.6	103.2	140.2	137	3.2	10.6	●
SDD1070	10.7	103.2	140.2	137	3.2	10.7	●
SDD1080	10.8	106.2	143.2	140	3.2	10.8	●
SDD1090	10.9	106.3	143.3	140	3.3	10.9	●
SDD1100	11.0	106.3	143.3	140	3.3	11.0	●
SDD1110	11.1	106.3	143.3	140	3.3	11.1	●
SDD1120	11.2	109.4	146.4	143	3.4	11.2	●
SDD1130	11.3	109.4	146.4	143	3.4	11.3	●
SDD1140	11.4	109.4	146.4	143	3.4	11.4	●
SDD1150	11.5	109.5	146.5	143	3.5	11.5	●
SDD1160	11.6	112.5	149.5	146	3.5	11.6	●
SDD1170	11.7	112.5	149.5	146	3.5	11.7	●
SDD1180	11.8	112.6	149.6	146	3.6	11.8	●
SDD1190	11.9	112.6	149.6	146	3.6	11.9	●
SDD1200	12.0	114.6	152.6	149	3.6	12.0	●
SDD1210	12.1	114.6	152.6	149	3.6	12.1	●
SDD1220	12.2	114.7	152.7	149	3.7	12.2	●
SDD1230	12.3	114.7	152.7	149	3.7	12.3	●
SDD1240	12.4	117.7	155.7	152	3.7	12.4	●
SDD1250	12.5	117.8	155.8	152	3.8	12.5	●
SDD1260	12.6	117.8	155.8	152	3.8	12.6	●
SDD1270	12.7	117.8	155.8	152	3.8	12.7	●
SDD1280	12.8	117.9	155.9	152	3.9	12.8	●
SDD1290	12.9	117.9	155.9	152	3.9	12.9	●
SDD1300	13.0	117.9	155.9	152	3.9	13.0	●
SDD1350	13.5	126.1	172.1	168	4.1	13.5	●
SDD1400	14.0	126.2	172.2	168	4.2	14.0	●
SDD1450	14.5	126.4	172.4	168	4.4	14.5	●
SDD1500	15.0	136.5	185.5	181	4.5	15.0	●
SDD1550	15.5	136.7	185.7	181	4.7	15.5	●
SDD1600	16.0	136.8	185.8	181	4.8	16.0	●
SDD1650	16.5	137.0	186.0	181	5.0	16.5	●
SDD1700	17.0	148.1	199.1	194	5.1	17.0	●
SDD1750	17.5	148.3	199.3	194	5.3	17.5	●

P

钻头

直柄钻头

SD

1/100直柄钻头



P

钢

M

不锈钢

K

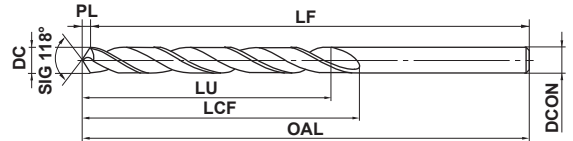
铸铁

N

有色金属

S

H



※LU = LCF-2DC

 $0.25 \leq DC \leq 5.95$ $\begin{matrix} 0 \\ -0.007 \end{matrix}$ ●直径公差 $\begin{matrix} 0 \\ -0.007 \end{matrix}$ mm。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDD0025	0.25	3.1	19.1	19	0.08	0.25	●
SDD0035	0.35	4.1	19.1	19	0.11	0.35	●
SDD0045	0.45	5.1	20.1	20	0.14	0.45	●
SDD0055	0.55	7.2	24.2	24	0.17	0.55	●
SDD0065	0.65	8.2	26.2	26	0.20	0.65	●
SDD0075	0.75	11.2	34.2	34	0.23	0.75	●
SDD0085	0.85	13.3	36.3	36	0.26	0.85	●
SDD0095	0.95	18.3	40.3	40	0.29	0.95	●
SDD0105	1.05	20.3	42.3	42	0.3	1.05	●
SDD0115	1.15	20.4	42.4	42	0.4	1.15	●
SDD0125	1.25	22.4	45.4	45	0.4	1.25	●
SDD0135	1.35	23.4	48.4	48	0.4	1.35	●
SDD0145	1.45	23.4	48.4	48	0.4	1.45	●
SDD0155	1.55	25.5	50.5	50	0.5	1.55	●
SDD0165	1.65	25.5	50.5	50	0.5	1.65	●
SDD0175	1.75	28.5	52.5	52	0.5	1.75	●
SDD0185	1.85	28.6	52.6	52	0.6	1.85	●
SDD0195	1.95	29.6	55.6	55	0.6	1.95	●
SDD0205	2.05	29.6	55.6	55	0.6	2.05	●
SDD0215	2.15	29.7	55.7	55	0.7	2.15	●
SDD0225	2.25	33.7	58.7	58	0.7	2.25	●
SDD0235	2.35	33.7	58.7	58	0.7	2.35	●
SDD0245	2.45	35.7	61.7	61	0.7	2.45	●
SDD0255	2.55	37.8	64.8	64	0.8	2.55	●
SDD0265	2.65	37.8	64.8	64	0.8	2.65	●
SDD0275	2.75	39.8	67.8	67	0.8	2.75	●
SDD0285	2.85	39.9	67.9	67	0.9	2.85	●
SDD0295	2.95	42.9	71.9	71	0.9	2.95	●
SDD0305	3.05	42.9	71.9	71	0.9	3.05	●
SDD0315	3.15	43.0	72.0	71	1.0	3.15	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDD0325	3.25	43.0	72.0	71	1.0	3.25	●
SDD0335	3.35	46.0	74.0	73	1.0	3.35	●
SDD0345	3.45	46.0	74.0	73	1.0	3.45	●
SDD0355	3.55	46.1	74.1	73	1.1	3.55	●
SDD0365	3.65	49.1	77.1	76	1.1	3.65	●
SDD0375	3.75	49.1	77.1	76	1.1	3.75	●
SDD0385	3.85	52.2	80.2	79	1.2	3.85	●
SDD0395	3.95	52.2	80.2	79	1.2	3.95	●
SDD0405	4.05	55.2	84.2	83	1.2	4.05	●
SDD0415	4.15	55.3	84.3	83	1.3	4.15	●
SDD0425	4.25	55.3	84.3	83	1.3	4.25	●
SDD0435	4.35	55.3	84.3	83	1.3	4.35	●
SDD0445	4.45	57.3	87.3	86	1.3	4.45	●
SDD0455	4.55	57.4	87.4	86	1.4	4.55	●
SDD0465	4.65	60.4	90.4	89	1.4	4.65	●
SDD0475	4.75	60.4	90.4	89	1.4	4.75	●
SDD0485	4.85	60.5	90.5	89	1.5	4.85	●
SDD0495	4.95	63.5	93.5	92	1.5	4.95	●
SDD0505	5.05	63.5	93.5	92	1.5	5.05	●
SDD0515	5.15	63.6	93.6	92	1.6	5.15	●
SDD0525	5.25	65.6	96.6	95	1.6	5.25	●
SDD0535	5.35	65.6	96.6	95	1.6	5.35	●
SDD0545	5.45	65.6	96.6	95	1.6	5.45	●
SDD0555	5.55	65.7	96.7	95	1.7	5.55	●
SDD0565	5.65	68.7	99.7	98	1.7	5.65	●
SDD0575	5.75	68.7	99.7	98	1.7	5.75	●
SDD0585	5.85	68.8	99.8	98	1.8	5.85	●
SDD0595	5.95	68.8	99.8	98	1.8	5.95	●

●：标准库存品

切削条件 > P209

技术资料 > R001

SDLS

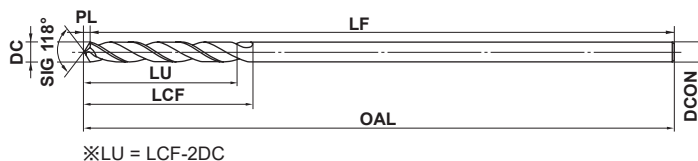
直柄钻头 长柄型



高速钢

DC ≥ 2

P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属		



※LU = LCF - 2DC



$1 \leq DC \leq 3$	$3 < DC \leq 6$	$6 < DC \leq 10$
$\begin{smallmatrix} 0 \\ -0.014 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.022 \end{smallmatrix}$

- 钻头刚性高，推荐用于避免与工件干涉等需要长钻头的情况下。
- 咬入性优异，可用于机动进给加工至手动进给加工等广泛领域。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDLS0100A100	1.0	12.3	100.3	100	0.3	1.0	●
SDLS0110A100	1.1	14.3	100.3	100	0.3	1.1	●
SDLS0120A100	1.2	16.4	100.4	100	0.4	1.2	●
SDLS0130A100	1.3	16.4	100.4	100	0.4	1.3	●
SDLS0140A100	1.4	18.4	100.4	100	0.4	1.4	●
SDLS0150A100	1.5	18.5	100.5	100	0.5	1.5	●
SDLS0160A100	1.6	20.5	100.5	100	0.5	1.6	●
SDLS0170A100	1.7	20.5	100.5	100	0.5	1.7	●
SDLS0180A100	1.8	22.5	100.5	100	0.5	1.8	●
SDLS0190A100	1.9	22.6	100.6	100	0.6	1.9	●
SDLS0200A100	2.0	23.6	100.6	100	0.6	2.0	●
SDLS0210A150	2.1	23.6	150.6	150	0.6	2.1	●
SDLS0220A150	2.2	26.7	150.7	150	0.7	2.2	●
SDLS0230A150	2.3	26.7	150.7	150	0.7	2.3	●
SDLS0240A150	2.4	29.7	150.7	150	0.7	2.4	●
SDLS0250A150	2.5	29.8	150.8	150	0.8	2.5	●
SDLS0260A150	2.6	29.8	150.8	150	0.8	2.6	●
SDLS0270A150	2.7	32.8	150.8	150	0.8	2.7	●
SDLS0280A150	2.8	32.8	150.8	150	0.8	2.8	●
SDLS0290A150	2.9	32.9	150.9	150	0.9	2.9	●
SDLS0300A150	3.0	32.9	150.9	150	0.9	3.0	●
SDLS0310A150	3.1	35.9	150.9	150	0.9	3.1	●
SDLS0320A150	3.2	36.0	151.0	150	1.0	3.2	●
SDLS0330A150	3.3	36.0	151.0	150	1.0	3.3	●
SDLS0340A150	3.4	39.0	151.0	150	1.0	3.4	●
SDLS0350A150	3.5	39.1	151.1	150	1.1	3.5	●
SDLS0360A200	3.6	39.1	201.1	200	1.1	3.6	●
SDLS0370A200	3.7	39.1	201.1	200	1.1	3.7	●
SDLS0380A200	3.8	43.1	201.1	200	1.1	3.8	●
SDLS0390A200	3.9	43.2	201.2	200	1.2	3.9	●
SDLS0400A200	4.0	43.2	201.2	200	1.2	4.0	●
SDLS0410A200	4.1	43.2	201.2	200	1.2	4.1	●
SDLS0420A200	4.2	43.3	201.3	200	1.3	4.2	●
SDLS0430A200	4.3	47.3	201.3	200	1.3	4.3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDLS0440A200	4.4	47.3	201.3	200	1.3	4.4	●
SDLS0450A200	4.5	47.4	201.4	200	1.4	4.5	●
SDLS0460A200	4.6	47.4	201.4	200	1.4	4.6	●
SDLS0470A200	4.7	47.4	201.4	200	1.4	4.7	●
SDLS0480A200	4.8	52.4	201.4	200	1.4	4.8	●
SDLS0490A200	4.9	52.5	201.5	200	1.5	4.9	●
SDLS0500A200	5.0	52.5	201.5	200	1.5	5.0	●
SDLS0510A200	5.1	52.5	201.5	200	1.5	5.1	●
SDLS0520A200	5.2	52.6	201.6	200	1.6	5.2	●
SDLS0530A200	5.3	52.6	201.6	200	1.6	5.3	●
SDLS0540A200	5.4	57.6	201.6	200	1.6	5.4	●
SDLS0550A200	5.5	57.7	201.7	200	1.7	5.5	●
SDLS0560A200	5.6	57.7	201.7	200	1.7	5.6	●
SDLS0570A200	5.7	57.7	201.7	200	1.7	5.7	●
SDLS0580A200	5.8	57.7	201.7	200	1.7	5.8	●
SDLS0590A200	5.9	57.8	201.8	200	1.8	5.9	●
SDLS0600A200	6.0	57.8	201.8	200	1.8	6.0	●
SDLS0610A250	6.1	63.8	251.8	250	1.8	6.1	●
SDLS0620A250	6.2	63.9	251.9	250	1.9	6.2	●
SDLS0630A250	6.3	63.9	251.9	250	1.9	6.3	●
SDLS0640A250	6.4	63.9	251.9	250	1.9	6.4	●
SDLS0650A250	6.5	64.0	252.0	250	2.0	6.5	●
SDLS0660A250	6.6	64.0	252.0	250	2.0	6.6	●
SDLS0670A250	6.7	64.0	252.0	250	2.0	6.7	●
SDLS0680A250	6.8	69.0	252.0	250	2.0	6.8	●
SDLS0690A250	6.9	69.1	252.1	250	2.1	6.9	●
SDLS0700A250	7.0	69.1	252.1	250	2.1	7.0	●
SDLS0710A250	7.1	69.1	252.1	250	2.1	7.1	●
SDLS0720A250	7.2	69.2	252.2	250	2.2	7.2	●
SDLS0730A250	7.3	69.2	252.2	250	2.2	7.3	●
SDLS0740A250	7.4	69.2	252.2	250	2.2	7.4	●
SDLS0750A250	7.5	69.3	252.3	250	2.3	7.5	●
SDLS0760A250	7.6	75.3	252.3	250	2.3	7.6	●
SDLS0770A250	7.7	75.3	252.3	250	2.3	7.7	●

P

钻头

SDLS
直柄钻头 长柄型

高速钢

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDLS0780A250	7.8	75.3	252.3	250	2.3	7.8	●
SDLS0790A250	7.9	75.4	252.4	250	2.4	7.9	●
SDLS0800A250	8.0	75.4	252.4	250	2.4	8.0	●
SDLS0810A250	8.1	75.4	252.4	250	2.4	8.1	●
SDLS0820A250	8.2	75.5	252.5	250	2.5	8.2	●
SDLS0830A250	8.3	75.5	252.5	250	2.5	8.3	●
SDLS0840A250	8.4	75.5	252.5	250	2.5	8.4	●
SDLS0850A250	8.5	75.6	252.6	250	2.6	8.5	●
SDLS0860A250	8.6	81.6	252.6	250	2.6	8.6	●
SDLS0870A250	8.7	81.6	252.6	250	2.6	8.7	●
SDLS0880A250	8.8	81.6	252.6	250	2.6	8.8	●
SDLS0890A250	8.9	81.7	252.7	250	2.7	8.9	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
SDLS0900A250	9.0	81.7	252.7	250	2.7	9.0	●
SDLS0910A250	9.1	81.7	252.7	250	2.7	9.1	●
SDLS0920A250	9.2	81.8	252.8	250	2.8	9.2	●
SDLS0930A250	9.3	81.8	252.8	250	2.8	9.3	●
SDLS0940A250	9.4	81.8	252.8	250	2.8	9.4	●
SDLS0950A250	9.5	81.9	252.9	250	2.9	9.5	●
SDLS0960A250	9.6	87.9	252.9	250	2.9	9.6	●
SDLS0970A250	9.7	87.9	252.9	250	2.9	9.7	●
SDLS0980A250	9.8	87.9	252.9	250	2.9	9.8	●
SDLS0990A250	9.9	88.0	253.0	250	3.0	9.9	●
SDLS1000A250	10.0	88.0	253.0	250	3.0	10.0	●

P

钻头

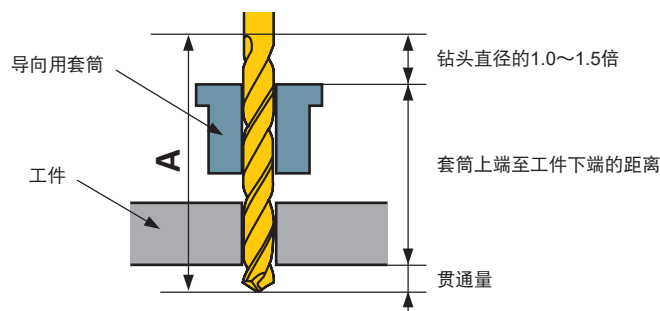
●：标准库存品

推荐切削条件

工件材料	软钢 (≤HB180)、 碳钢、合金钢 (HB180—280)				合金工具钢 (≤30HRC)				合金工具钢 (<40HRC)				灰铸铁 (≤350MPa) FC300等			
	SS400, S10C, S45C, SCM440等				SKD, SKT等				SKD, SKT等							
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)
1.0	16	5000	0.02	100	13	4000	0.01	40	9	2800	0.007	15	16	5000	0.02	100
1.5	20	4200	0.03	125	15	3200	0.02	60	10	2100	0.01	20	20	4200	0.03	125
2.0	20	3200	0.05	160	16	2500	0.03	75	11	1800	0.02	35	20	3200	0.05	160
3.0	20	2100	0.1	210	17	1800	0.06	105	11	1200	0.04	45	22	2300	0.1	230
4.0	20	1600	0.12	190	17	1350	0.08	105	11	900	0.06	50	22	1750	0.12	210
5.0	20	1300	0.14	180	17	1100	0.1	110	11	700	0.08	55	22	1400	0.14	195
6.0	20	1050	0.17	175	17	900	0.12	105	11	600	0.1	60	22	1150	0.18	205
7.0	20	900	0.19	170	17	780	0.14	105	11	500	0.11	55	22	1000	0.19	190
8.0	20	800	0.2	160	17	670	0.15	100	11	450	0.12	50	22	890	0.2	175
9.0	20	700	0.21	145	17	600	0.16	95	11	400	0.13	50	22	780	0.21	160
10.0	20	650	0.22	140	17	540	0.17	90	11	350	0.14	45	22	700	0.22	150

工件材料	铁素体、析出硬化类不锈钢 (≤HB200)				奥氏体类不锈钢 (≤HB200)				铜、铜合金				铝合金 (Si<5%)			
	SUS431, SUS420J2等				SUS304, SUS316等								A6061, A7075等			
直径 DC (mm)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)	切削速度 (m/min)	转速 (min ⁻¹)	进给量 (mm/rev)	进给速度 (mm/min)
1.0	13	4000	0.02	80	9	3000	0.02	60	16	5000	0.02	100	22	7000	0.04	280
1.5	14	3000	0.03	90	9	2000	0.03	60	20	4200	0.03	125	28	6000	0.06	360
2.0	14	2200	0.05	110	9	1500	0.04	60	20	3200	0.05	160	30	4800	0.08	380
3.0	15	1600	0.07	110	9	1000	0.06	60	20	2100	0.1	210	40	4200	0.13	545
4.0	15	1200	0.11	130	9	700	0.08	55	20	1600	0.12	190	40	3200	0.16	510
5.0	15	950	0.13	120	9	600	0.09	50	20	1300	0.14	180	40	2550	0.2	510
6.0	15	800	0.14	110	10	530	0.1	50	20	1050	0.18	185	40	2100	0.23	480
7.0	15	700	0.15	105	10	450	0.11	45	20	900	0.19	170	40	1800	0.25	450
8.0	15	600	0.16	95	10	400	0.13	50	20	800	0.2	160	40	1600	0.28	445
9.0	15	520	0.17	85	10	360	0.14	50	20	700	0.21	145	40	1400	0.3	420
10.0	15	480	0.18	85	10	310	0.15	45	20	650	0.22	140	40	1280	0.33	420

- 注1) 上表中未刊载中间直径钻头的转速, 请根据大直径且最接近钻头直径的条件或根据最接近钻头直径的切削速度进行计算。请将每转进给量设为以最接近钻头直径的推荐进给量为标准的适当值。
- 注2) 工件安装刚性差或机床受限制时, 请按照其情况, 降低转速与进给速度。
- 注3) 孔深超过DC×3时, 请采用步进方式加工。
- 注4) 上表切削条件以刀具悬伸量是槽长的2倍左右为标准。若悬伸量大, 请降低切削条件。
- 注5) 推荐使用水溶性切削液。若使用非水溶性切削液, 请降低转速。
- 注6) 要充分供给冷却液。若难以充分供给冷却液的加工条件下, 请降低切削条件。
- 注7) 若使用导向用套筒, 要确保槽长>A尺寸(下图), 若槽短, 请卸下套筒后再进行加工。
若不卸套筒, 请使用LSD或GWSL钻头。



直柄钻头

KSD

不锈钢用钴高速钢直柄钻头



DC<2

DC≥2

DC≥2

P

钢

M

不锈钢

K

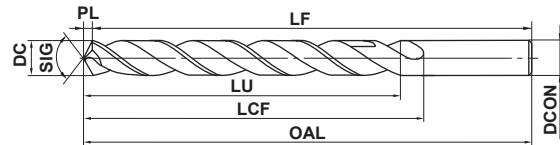
铸铁

N

有色金属

S

H



$$\text{※LU} = \text{LCF} - 2\text{DC}$$



1≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤13
0 -0.014	0 -0.018	0 -0.022	0 -0.027

●头刃部锋利性好,最适宜低于HB200的不锈钢的切削。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
KSDD0100	1.0	12.3	40.3	40	0.3	1.0	●
KSDD0110	1.1	14.3	42.3	42	0.3	1.1	●
KSDD0120	1.2	16.3	42.3	42	0.3	1.2	●
KSDD0130	1.3	16.3	45.3	45	0.3	1.3	●
KSDD0140	1.4	18.4	48.4	48	0.4	1.4	●
KSDD0150	1.5	18.4	48.4	48	0.4	1.5	●
KSDD0160	1.6	20.4	50.4	50	0.4	1.6	●
KSDD0170	1.7	20.4	50.4	50	0.4	1.7	●
KSDD0180	1.8	22.5	52.5	52	0.5	1.8	●
KSDD0190	1.9	22.5	52.5	52	0.5	1.9	●
KSDD0200	2.0	29.6	55.6	55	0.6	2.0	●
KSDD0210	2.1	29.6	55.6	55	0.6	2.1	●
KSDD0220	2.2	33.7	58.7	58	0.7	2.2	●
KSDD0230	2.3	33.7	58.7	58	0.7	2.3	●
KSDD0240	2.4	35.7	61.7	61	0.7	2.4	●
KSDD0250	2.5	35.8	61.8	61	0.8	2.5	●
KSDD0260	2.6	37.8	64.8	64	0.8	2.6	●
KSDD0270	2.7	37.8	64.8	64	0.8	2.7	●
KSDD0280	2.8	39.8	67.8	67	0.8	2.8	●
KSDD0290	2.9	42.9	71.9	71	0.9	2.9	●
KSDD0300	3.0	42.9	71.9	71	0.9	3.0	●
KSDD0310	3.1	42.9	71.9	71	0.9	3.1	●
KSDD0320	3.2	43.0	72.0	71	1.0	3.2	●
KSDD0330	3.3	46.0	74.0	73	1.0	3.3	●
KSDD0340	3.4	46.0	74.0	73	1.0	3.4	●
KSDD0350	3.5	46.1	74.1	73	1.1	3.5	●
KSDD0360	3.6	49.1	77.1	76	1.1	3.6	●
KSDD0370	3.7	49.1	77.1	76	1.1	3.7	●
KSDD0380	3.8	49.1	77.1	76	1.1	3.8	●
KSDD0390	3.9	52.2	80.2	79	1.2	3.9	●
KSDD0400	4.0	55.2	84.2	83	1.2	4.0	●
KSDD0410	4.1	55.2	84.2	83	1.2	4.1	●
KSDD0420	4.2	55.3	84.3	83	1.3	4.2	●
KSDD0430	4.3	55.3	84.3	83	1.3	4.3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
KSDD0440	4.4	57.3	87.3	86	1.3	4.4	●
KSDD0450	4.5	57.4	87.4	86	1.4	4.5	●
KSDD0460	4.6	57.4	87.4	86	1.4	4.6	●
KSDD0470	4.7	60.4	90.4	89	1.4	4.7	●
KSDD0480	4.8	60.4	90.4	89	1.4	4.8	●
KSDD0490	4.9	63.5	93.5	92	1.5	4.9	●
KSDD0500	5.0	63.5	93.5	92	1.5	5.0	●
KSDD0510	5.1	63.5	93.5	92	1.5	5.1	●
KSDD0520	5.2	65.6	96.6	95	1.6	5.2	●
KSDD0530	5.3	65.6	96.6	95	1.6	5.3	●
KSDD0540	5.4	65.6	96.6	95	1.6	5.4	●
KSDD0550	5.5	65.7	96.7	95	1.7	5.5	●
KSDD0560	5.6	68.7	99.7	98	1.7	5.6	●
KSDD0570	5.7	68.7	99.7	98	1.7	5.7	●
KSDD0580	5.8	68.7	99.7	98	1.7	5.8	●
KSDD0590	5.9	68.8	99.8	98	1.8	5.9	●
KSDD0600	6.0	71.8	103.8	102	1.8	6.0	●
KSDD0610	6.1	71.8	103.8	102	1.8	6.1	●
KSDD0620	6.2	71.9	103.9	102	1.9	6.2	●
KSDD0630	6.3	71.9	103.9	102	1.9	6.3	●
KSDD0640	6.4	74.9	106.9	105	1.9	6.4	●
KSDD0650	6.5	75.0	107.0	105	2.0	6.5	●
KSDD0660	6.6	75.0	107.0	105	2.0	6.6	●
KSDD0670	6.7	75.0	107.0	105	2.0	6.7	●
KSDD0680	6.8	75.0	107.0	105	2.0	6.8	●
KSDD0690	6.9	75.1	107.1	105	2.1	6.9	●
KSDD0700	7.0	75.1	107.1	105	2.1	7.0	●
KSDD0710	7.1	77.1	110.1	108	2.1	7.1	●
KSDD0720	7.2	77.2	110.2	108	2.2	7.2	●
KSDD0730	7.3	77.2	110.2	108	2.2	7.3	●
KSDD0740	7.4	80.2	113.2	111	2.2	7.4	●
KSDD0750	7.5	80.3	113.3	111	2.3	7.5	●
KSDD0760	7.6	80.3	113.3	111	2.3	7.6	●
KSDD0770	7.7	83.3	116.3	114	2.3	7.7	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
KSDD0780	7.8	83.3	116.3	114	2.3	7.8	●
KSDD0790	7.9	83.4	116.4	114	2.4	7.9	●
KSDD0800	8.0	83.4	116.4	114	2.4	8.0	●
KSDD0810	8.1	86.4	119.4	117	2.4	8.1	●
KSDD0820	8.2	86.5	119.5	117	2.5	8.2	●
KSDD0830	8.3	86.5	119.5	117	2.5	8.3	●
KSDD0840	8.4	89.5	123.5	121	2.5	8.4	●
KSDD0850	8.5	89.6	123.6	121	2.6	8.5	●
KSDD0860	8.6	89.6	123.6	121	2.6	8.6	●
KSDD0870	8.7	89.6	123.6	121	2.6	8.7	●
KSDD0880	8.8	91.6	126.6	124	2.6	8.8	●
KSDD0890	8.9	91.7	126.7	124	2.7	8.9	●
KSDD0900	9.0	91.7	126.7	124	2.7	9.0	●
KSDD0910	9.1	91.7	126.7	124	2.7	9.1	●
KSDD0920	9.2	94.8	129.8	127	2.8	9.2	●
KSDD0930	9.3	94.8	129.8	127	2.8	9.3	●
KSDD0940	9.4	94.8	129.8	127	2.8	9.4	●
KSDD0950	9.5	94.9	129.9	127	2.9	9.5	●
KSDD0960	9.6	97.9	132.9	130	2.9	9.6	●
KSDD0970	9.7	97.9	132.9	130	2.9	9.7	●
KSDD0980	9.8	97.9	132.9	130	2.9	9.8	●
KSDD0990	9.9	98.0	133.0	130	3.0	9.9	●
KSDD1000	10.0	98.0	133.0	130	3.0	10.0	●
KSDD1010	10.1	101.0	136.0	133	3.0	10.1	●
KSDD1020	10.2	101.1	136.1	133	3.1	10.2	●
KSDD1030	10.3	101.1	136.1	133	3.1	10.3	●
KSDD1040	10.4	101.1	136.1	133	3.1	10.4	●
KSDD1050	10.5	103.2	140.2	137	3.2	10.5	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
KSDD1060	10.6	103.2	140.2	137	3.2	10.6	●
KSDD1070	10.7	103.2	140.2	137	3.2	10.7	●
KSDD1080	10.8	106.2	143.2	140	3.2	10.8	●
KSDD1090	10.9	106.3	143.3	140	3.3	10.9	●
KSDD1100	11.0	106.3	143.3	140	3.3	11.0	●
KSDD1110	11.1	106.3	143.3	140	3.3	11.1	●
KSDD1120	11.2	109.4	146.4	143	3.4	11.2	●
KSDD1130	11.3	109.4	146.4	143	3.4	11.3	●
KSDD1140	11.4	109.4	146.4	143	3.4	11.4	●
KSDD1150	11.5	109.5	146.5	143	3.5	11.5	●
KSDD1160	11.6	112.5	149.5	146	3.5	11.6	●
KSDD1170	11.7	112.5	149.5	146	3.5	11.7	●
KSDD1180	11.8	112.5	149.5	146	3.5	11.8	●
KSDD1190	11.9	112.6	149.6	146	3.6	11.9	●
KSDD1200	12.0	114.6	152.6	149	3.6	12.0	●
KSDD1210	12.1	114.6	152.6	149	3.6	12.1	●
KSDD1220	12.2	114.7	152.7	149	3.7	12.2	●
KSDD1230	12.3	114.7	152.7	149	3.7	12.3	●
KSDD1240	12.4	117.7	155.7	152	3.7	12.4	●
KSDD1250	12.5	117.8	155.8	152	3.8	12.5	●
KSDD1260	12.6	117.8	155.8	152	3.8	12.6	●
KSDD1270	12.7	117.8	155.8	152	3.8	12.7	●
KSDD1280	12.8	117.8	155.8	152	3.8	12.8	●
KSDD1290	12.9	117.9	155.9	152	3.9	12.9	●
KSDD1300	13.0	117.9	155.9	152	3.9	13.0	●

直柄钻头

GWSS

G型非步进直柄钻头



P

钢

M

不锈钢

K

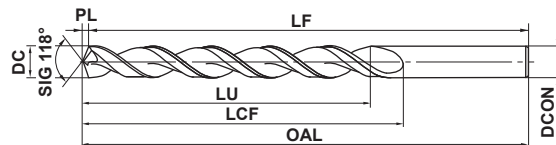
铸铁

N

有色金属

S

H



※LU = LCF-2DC



1≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤13
0 -0.014	0 -0.018	0 -0.022	0 -0.027

● 最适合于钻削深孔,可进行非步进进给钻削深孔,也可有效地钻削浅孔。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSSD0100	1.0	18.3	40.3	40	0.3	1.0	●
GWSSD0110	1.1	20.3	42.3	42	0.3	1.1	●
GWSSD0120	1.2	20.4	42.4	42	0.4	1.2	●
GWSSD0130	1.3	22.4	45.4	45	0.4	1.3	●
GWSSD0140	1.4	23.4	48.4	48	0.4	1.4	●
GWSSD0150	1.5	23.5	48.5	48	0.5	1.5	●
GWSSD0160	1.6	25.5	50.5	50	0.5	1.6	●
GWSSD0170	1.7	25.5	50.5	50	0.5	1.7	●
GWSSD0180	1.8	28.5	52.5	52	0.5	1.8	●
GWSSD0190	1.9	28.6	52.6	52	0.6	1.9	●
GWSSD0200	2.0	29.6	55.6	55	0.6	2.0	●
GWSSD0210	2.1	29.6	55.6	55	0.6	2.1	●
GWSSD0220	2.2	33.7	58.7	58	0.7	2.2	●
GWSSD0230	2.3	33.7	58.7	58	0.7	2.3	●
GWSSD0240	2.4	35.7	61.7	61	0.7	2.4	●
GWSSD0250	2.5	35.8	61.8	61	0.8	2.5	●
GWSSD0260	2.6	37.8	64.8	64	0.8	2.6	●
GWSSD0270	2.7	37.8	64.8	64	0.8	2.7	●
GWSSD0280	2.8	39.8	67.8	67	0.8	2.8	●
GWSSD0290	2.9	42.9	71.9	71	0.9	2.9	●
GWSSD0300	3.0	42.9	71.9	71	0.9	3.0	●
GWSSD0310	3.1	42.9	71.9	71	0.9	3.1	●
GWSSD0320	3.2	43.0	72.0	71	1.0	3.2	●
GWSSD0330	3.3	46.0	74.0	73	1.0	3.3	●
GWSSD0340	3.4	46.0	74.0	73	1.0	3.4	●
GWSSD0350	3.5	46.1	74.1	73	1.1	3.5	●
GWSSD0360	3.6	49.1	77.1	76	1.1	3.6	●
GWSSD0370	3.7	49.1	77.1	76	1.1	3.7	●
GWSSD0380	3.8	49.1	77.1	76	1.1	3.8	●
GWSSD0390	3.9	52.2	80.2	79	1.2	3.9	●
GWSSD0400	4.0	55.2	84.2	83	1.2	4.0	●
GWSSD0410	4.1	55.2	84.2	83	1.2	4.1	●
GWSSD0420	4.2	55.3	84.3	83	1.3	4.2	●
GWSSD0430	4.3	55.3	84.3	83	1.3	4.3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSSD0440	4.4	57.3	87.3	86	1.3	4.4	●
GWSSD0450	4.5	57.4	87.4	86	1.4	4.5	●
GWSSD0460	4.6	57.4	87.4	86	1.4	4.6	●
GWSSD0470	4.7	60.4	90.4	89	1.4	4.7	●
GWSSD0480	4.8	60.4	90.4	89	1.4	4.8	●
GWSSD0490	4.9	63.5	93.5	92	1.5	4.9	●
GWSSD0500	5.0	63.5	93.5	92	1.5	5.0	●
GWSSD0510	5.1	63.5	93.5	92	1.5	5.1	●
GWSSD0520	5.2	65.6	96.6	95	1.6	5.2	●
GWSSD0530	5.3	65.6	96.6	95	1.6	5.3	●
GWSSD0540	5.4	65.6	96.6	95	1.6	5.4	●
GWSSD0550	5.5	65.7	96.7	95	1.7	5.5	●
GWSSD0560	5.6	68.7	99.7	98	1.7	5.6	●
GWSSD0570	5.7	68.7	99.7	98	1.7	5.7	●
GWSSD0580	5.8	68.7	99.7	98	1.7	5.8	●
GWSSD0590	5.9	68.8	99.8	98	1.8	5.9	●
GWSSD0600	6.0	71.8	103.8	102	1.8	6.0	●
GWSSD0610	6.1	71.8	103.8	102	1.8	6.1	●
GWSSD0620	6.2	71.9	103.9	102	1.9	6.2	●
GWSSD0630	6.3	71.9	103.9	102	1.9	6.3	●
GWSSD0640	6.4	74.9	106.9	105	1.9	6.4	●
GWSSD0650	6.5	75.0	107.0	105	2.0	6.5	●
GWSSD0660	6.6	75.0	107.0	105	2.0	6.6	●
GWSSD0670	6.7	75.0	107.0	105	2.0	6.7	●
GWSSD0680	6.8	75.0	107.0	105	2.0	6.8	●
GWSSD0690	6.9	75.1	107.1	105	2.1	6.9	●
GWSSD0700	7.0	75.1	107.1	105	2.1	7.0	●
GWSSD0710	7.1	77.1	110.1	108	2.1	7.1	●
GWSSD0720	7.2	77.2	110.2	108	2.2	7.2	●
GWSSD0730	7.3	77.2	110.2	108	2.2	7.3	●
GWSSD0740	7.4	80.2	113.2	111	2.2	7.4	●
GWSSD0750	7.5	80.3	113.3	111	2.3	7.5	●
GWSSD0760	7.6	80.3	113.3	111	2.3	7.6	●
GWSSD0770	7.7	83.3	116.3	114	2.3	7.7	●

●: 标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSSD0780	7.8	83.3	116.3	114	2.3	7.8	●
GWSSD0790	7.9	83.4	116.4	114	2.4	7.9	●
GWSSD0800	8.0	83.4	116.4	114	2.4	8.0	●
GWSSD0810	8.1	86.4	119.4	117	2.4	8.1	●
GWSSD0820	8.2	86.5	119.5	117	2.5	8.2	●
GWSSD0830	8.3	86.5	119.5	117	2.5	8.3	●
GWSSD0840	8.4	89.5	123.5	121	2.5	8.4	●
GWSSD0850	8.5	89.6	123.6	121	2.6	8.5	●
GWSSD0860	8.6	89.6	123.6	121	2.6	8.6	●
GWSSD0870	8.7	89.6	123.6	121	2.6	8.7	●
GWSSD0880	8.8	91.6	126.6	124	2.6	8.8	●
GWSSD0890	8.9	91.7	126.7	124	2.7	8.9	●
GWSSD0900	9.0	91.7	126.7	124	2.7	9.0	●
GWSSD0910	9.1	91.7	126.7	124	2.7	9.1	●
GWSSD0920	9.2	94.8	129.8	127	2.8	9.2	●
GWSSD0930	9.3	94.8	129.8	127	2.8	9.3	●
GWSSD0940	9.4	94.8	129.8	127	2.8	9.4	●
GWSSD0950	9.5	94.9	129.9	127	2.9	9.5	●
GWSSD0960	9.6	97.9	132.9	130	2.9	9.6	●
GWSSD0970	9.7	97.9	132.9	130	2.9	9.7	●
GWSSD0980	9.8	97.9	132.9	130	2.9	9.8	●
GWSSD0990	9.9	98.0	133.0	130	3.0	9.9	●
GWSSD1000	10.0	98.0	133.0	130	3.0	10.0	●
GWSSD1010	10.1	101.0	136.0	133	3.0	10.1	●
GWSSD1020	10.2	101.1	136.1	133	3.1	10.2	●
GWSSD1030	10.3	101.1	136.1	133	3.1	10.3	●
GWSSD1040	10.4	101.1	136.1	133	3.1	10.4	●
GWSSD1050	10.5	103.2	140.2	137	3.2	10.5	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSSD1060	10.6	103.2	140.2	137	3.2	10.6	●
GWSSD1070	10.7	103.2	140.2	137	3.2	10.7	●
GWSSD1080	10.8	106.2	143.2	140	3.2	10.8	●
GWSSD1090	10.9	106.3	143.3	140	3.3	10.9	●
GWSSD1100	11.0	106.3	143.3	140	3.3	11.0	●
GWSSD1110	11.1	106.3	143.3	140	3.3	11.1	●
GWSSD1120	11.2	109.4	146.4	143	3.4	11.2	●
GWSSD1130	11.3	109.4	146.4	143	3.4	11.3	●
GWSSD1140	11.4	109.4	146.4	143	3.4	11.4	●
GWSSD1150	11.5	109.5	146.5	143	3.5	11.5	●
GWSSD1160	11.6	112.5	149.5	146	3.5	11.6	●
GWSSD1170	11.7	112.5	149.5	146	3.5	11.7	●
GWSSD1180	11.8	112.5	149.5	146	3.5	11.8	●
GWSSD1190	11.9	112.6	149.6	146	3.6	11.9	●
GWSSD1200	12.0	114.6	152.6	149	3.6	12.0	●
GWSSD1210	12.1	114.6	152.6	149	3.6	12.1	●
GWSSD1220	12.2	114.7	152.7	149	3.7	12.2	●
GWSSD1230	12.3	114.7	152.7	149	3.7	12.3	●
GWSSD1240	12.4	117.7	155.7	152	3.7	12.4	●
GWSSD1250	12.5	117.8	155.8	152	3.8	12.5	●
GWSSD1260	12.6	117.8	155.8	152	3.8	12.6	●
GWSSD1270	12.7	117.8	155.8	152	3.8	12.7	●
GWSSD1280	12.8	117.8	155.8	152	3.8	12.8	●
GWSSD1290	12.9	117.9	155.9	152	3.9	12.9	●
GWSSD1300	13.0	117.9	155.9	152	3.9	13.0	●

直柄钻头

GWSL

G型非步进长直柄钻头



P

钢

M

不锈钢

K

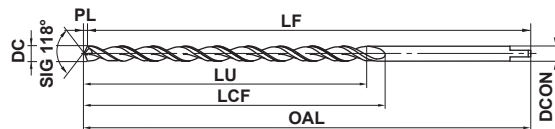
铸铁

N

有色金属

S

H



※LU = LCF-2DC



$2 \leq DC \leq 3$	$3 < DC \leq 6$	$6 < DC \leq 10$	$10 < DC \leq 13$
0 -0.014	0 -0.018	0 -0.022	0 -0.027

● 最适合于钻削深孔。比GWSS型钻头可更有效地钻削更深的孔。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSLD0200A125	2.0	80.6	125.6	125	0.6	2.0	●
GWSLD0200A160	2.0	100.6	160.6	160	0.6	2.0	●
GWSLD0210A125	2.1	80.6	125.6	125	0.6	2.1	●
GWSLD0210A160	2.1	100.6	160.6	160	0.6	2.1	●
GWSLD0220A125	2.2	80.7	125.7	125	0.7	2.2	●
GWSLD0220A160	2.2	100.7	160.7	160	0.7	2.2	●
GWSLD0230A125	2.3	80.7	125.7	125	0.7	2.3	●
GWSLD0230A160	2.3	100.7	160.7	160	0.7	2.3	●
GWSLD0240A125	2.4	80.7	125.7	125	0.7	2.4	●
GWSLD0240A160	2.4	100.7	160.7	160	0.7	2.4	●
GWSLD0250A125	2.5	80.8	125.8	125	0.8	2.5	●
GWSLD0250A160	2.5	100.8	160.8	160	0.8	2.5	●
GWSLD0260A125	2.6	80.8	125.8	125	0.8	2.6	●
GWSLD0260A160	2.6	100.8	160.8	160	0.8	2.6	●
GWSLD0270A125	2.7	80.8	125.8	125	0.8	2.7	●
GWSLD0270A160	2.7	100.8	160.8	160	0.8	2.7	●
GWSLD0280A125	2.8	80.8	125.8	125	0.8	2.8	●
GWSLD0280A160	2.8	100.8	160.8	160	0.8	2.8	●
GWSLD0290A125	2.9	80.9	125.9	125	0.9	2.9	●
GWSLD0290A160	2.9	100.9	160.9	160	0.9	2.9	●
GWSLD0300A125	3.0	80.9	125.9	125	0.9	3.0	●
GWSLD0300A160	3.0	100.9	160.9	160	0.9	3.0	●
GWSLD0300A200	3.0	125.9	200.9	200	0.9	3.0	●
GWSLD0310A160	3.1	100.9	160.9	160	0.9	3.1	●
GWSLD0310A200	3.1	125.9	200.9	200	0.9	3.1	●
GWSLD0320A160	3.2	101.0	161.0	160	1.0	3.2	●
GWSLD0320A200	3.2	126.0	201.0	200	1.0	3.2	●
GWSLD0330A160	3.3	101.0	161.0	160	1.0	3.3	●
GWSLD0330A200	3.3	126.0	201.0	200	1.0	3.3	●
GWSLD0340A160	3.4	101.0	161.0	160	1.0	3.4	●
GWSLD0340A200	3.4	126.0	201.0	200	1.0	3.4	●
GWSLD0350A160	3.5	101.1	161.1	160	1.1	3.5	●
GWSLD0350A200	3.5	126.1	201.1	200	1.1	3.5	●
GWSLD0360A160	3.6	101.1	161.1	160	1.1	3.6	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSLD0360A200	3.6	126.1	201.1	200	1.1	3.6	●
GWSLD0370A160	3.7	101.1	161.1	160	1.1	3.7	●
GWSLD0370A200	3.7	126.1	201.1	200	1.1	3.7	●
GWSLD0380A160	3.8	101.1	161.1	160	1.1	3.8	●
GWSLD0380A200	3.8	126.1	201.1	200	1.1	3.8	●
GWSLD0390A160	3.9	101.2	161.2	160	1.2	3.9	●
GWSLD0390A200	3.9	126.2	201.2	200	1.2	3.9	●
GWSLD0400A160	4.0	101.2	161.2	160	1.2	4.0	●
GWSLD0400A200	4.0	126.2	201.2	200	1.2	4.0	●
GWSLD0400A250	4.0	161.2	251.2	250	1.2	4.0	●
GWSLD0410A160	4.1	101.2	161.2	160	1.2	4.1	●
GWSLD0410A200	4.1	126.2	201.2	200	1.2	4.1	●
GWSLD0410A250	4.1	161.2	251.2	250	1.2	4.1	●
GWSLD0420A160	4.2	101.3	161.3	160	1.3	4.2	●
GWSLD0420A200	4.2	126.3	201.3	200	1.3	4.2	●
GWSLD0420A250	4.2	161.3	251.3	250	1.3	4.2	●
GWSLD0430A160	4.3	101.3	161.3	160	1.3	4.3	●
GWSLD0430A200	4.3	126.3	201.3	200	1.3	4.3	●
GWSLD0430A250	4.3	161.3	251.3	250	1.3	4.3	●
GWSLD0440A160	4.4	101.3	161.3	160	1.3	4.4	●
GWSLD0440A200	4.4	126.3	201.3	200	1.3	4.4	●
GWSLD0440A250	4.4	161.3	251.3	250	1.3	4.4	●
GWSLD0450A160	4.5	101.4	161.4	160	1.4	4.5	●
GWSLD0450A200	4.5	126.4	201.4	200	1.4	4.5	●
GWSLD0450A250	4.5	161.4	251.4	250	1.4	4.5	●
GWSLD0460A160	4.6	101.4	161.4	160	1.4	4.6	●
GWSLD0460A200	4.6	126.4	201.4	200	1.4	4.6	●
GWSLD0460A250	4.6	161.4	251.4	250	1.4	4.6	●
GWSLD0470A160	4.7	101.4	161.4	160	1.4	4.7	●
GWSLD0470A200	4.7	126.4	201.4	200	1.4	4.7	●
GWSLD0470A250	4.7	161.4	251.4	250	1.4	4.7	●
GWSLD0480A160	4.8	101.4	161.4	160	1.4	4.8	●
GWSLD0480A200	4.8	126.4	201.4	200	1.4	4.8	●
GWSLD0480A250	4.8	161.4	251.4	250	1.4	4.8	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSLD0490A160	4.9	101.5	161.5	160	1.5	4.9	●
GWSLD0490A200	4.9	126.5	201.5	200	1.5	4.9	●
GWSLD0490A250	4.9	161.5	251.5	250	1.5	4.9	●
GWSLD0500A160	5.0	101.5	161.5	160	1.5	5.0	●
GWSLD0500A200	5.0	126.5	201.5	200	1.5	5.0	●
GWSLD0500A250	5.0	161.5	251.5	250	1.5	5.0	●
GWSLD0510A160	5.1	101.5	161.5	160	1.5	5.1	●
GWSLD0510A200	5.1	126.5	201.5	200	1.5	5.1	●
GWSLD0510A250	5.1	161.5	251.5	250	1.5	5.1	●
GWSLD0520A160	5.2	101.6	161.6	160	1.6	5.2	●
GWSLD0520A200	5.2	126.6	201.6	200	1.6	5.2	●
GWSLD0520A250	5.2	161.6	251.6	250	1.6	5.2	●
GWSLD0530A160	5.3	101.6	161.6	160	1.6	5.3	●
GWSLD0530A200	5.3	126.6	201.6	200	1.6	5.3	●
GWSLD0530A250	5.3	161.6	251.6	250	1.6	5.3	●
GWSLD0540A160	5.4	101.6	161.6	160	1.6	5.4	●
GWSLD0540A200	5.4	126.6	201.6	200	1.6	5.4	●
GWSLD0540A250	5.4	161.6	251.6	250	1.6	5.4	●
GWSLD0550A160	5.5	101.7	161.7	160	1.7	5.5	●
GWSLD0550A200	5.5	126.7	201.7	200	1.7	5.5	●
GWSLD0550A250	5.5	161.7	251.7	250	1.7	5.5	●
GWSLD0560A160	5.6	101.7	161.7	160	1.7	5.6	●
GWSLD0560A200	5.6	126.7	201.7	200	1.7	5.6	●
GWSLD0560A250	5.6	161.7	251.7	250	1.7	5.6	●
GWSLD0570A160	5.7	101.7	161.7	160	1.7	5.7	●
GWSLD0570A200	5.7	126.7	201.7	200	1.7	5.7	●
GWSLD0570A250	5.7	161.7	251.7	250	1.7	5.7	●
GWSLD0580A160	5.8	101.7	161.7	160	1.7	5.8	●
GWSLD0580A200	5.8	126.7	201.7	200	1.7	5.8	●
GWSLD0580A250	5.8	161.7	251.7	250	1.7	5.8	●
GWSLD0590A160	5.9	101.8	161.8	160	1.8	5.9	●
GWSLD0590A200	5.9	126.8	201.8	200	1.8	5.9	●
GWSLD0590A250	5.9	161.8	251.8	250	1.8	5.9	●
GWSLD0600A160	6.0	101.8	161.8	160	1.8	6.0	●
GWSLD0600A200	6.0	126.8	201.8	200	1.8	6.0	●
GWSLD0600A250	6.0	161.8	251.8	250	1.8	6.0	●
GWSLD0600A315	6.0	201.8	316.8	315	1.8	6.0	●
GWSLD0650A160	6.5	102.0	162.0	160	2.0	6.5	●
GWSLD0650A200	6.5	127.0	202.0	200	2.0	6.5	●
GWSLD0650A250	6.5	162.0	252.0	250	2.0	6.5	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
GWSLD0650A315	6.5	202.0	317.0	315	2.0	6.5	●
GWSLD0680A160	6.8	102.0	162.0	160	2.0	6.8	●
GWSLD0680A200	6.8	127.0	202.0	200	2.0	6.8	●
GWSLD0680A250	6.8	162.0	252.0	250	2.0	6.8	●
GWSLD0680A315	6.8	202.0	317.0	315	2.0	6.8	●
GWSLD0700A160	7.0	102.1	162.1	160	2.1	7.0	●
GWSLD0700A200	7.0	127.1	202.1	200	2.1	7.0	●
GWSLD0700A250	7.0	162.1	252.1	250	2.1	7.0	●
GWSLD0700A315	7.0	202.1	317.1	315	2.1	7.0	●
GWSLD0750A200	7.5	127.3	202.3	200	2.3	7.5	●
GWSLD0750A250	7.5	162.3	252.3	250	2.3	7.5	●
GWSLD0750A315	7.5	202.3	317.3	315	2.3	7.5	●
GWSLD0800A200	8.0	127.4	202.4	200	2.4	8.0	●
GWSLD0800A250	8.0	162.4	252.4	250	2.4	8.0	●
GWSLD0800A315	8.0	202.4	317.4	315	2.4	8.0	●
GWSLD0850A200	8.5	142.6	202.6	200	2.6	8.5	●
GWSLD0850A250	8.5	162.6	252.6	250	2.6	8.5	●
GWSLD0850A315	8.5	202.6	317.6	315	2.6	8.5	●
GWSLD0900A200	9.0	142.7	202.7	200	2.7	9.0	●
GWSLD0900A250	9.0	162.7	252.7	250	2.7	9.0	●
GWSLD0900A315	9.0	202.7	317.7	315	2.7	9.0	●
GWSLD0950A200	9.5	142.9	202.9	200	2.9	9.5	●
GWSLD0950A250	9.5	162.9	252.9	250	2.9	9.5	●
GWSLD0950A315	9.5	202.9	317.9	315	2.9	9.5	●
GWSLD1000A200	10.0	143.0	203.0	200	3.0	10.0	●
GWSLD1000A250	10.0	163.0	253.0	250	3.0	10.0	●
GWSLD1000A315	10.0	203.0	318.0	315	3.0	10.0	●
GWSLD1050A250	10.5	163.2	253.2	250	3.2	10.5	●
GWSLD1050A315	10.5	203.2	318.2	315	3.2	10.5	●
GWSLD1100A250	11.0	163.3	253.3	250	3.3	11.0	●
GWSLD1100A315	11.0	203.3	318.3	315	3.3	11.0	●
GWSLD1150A250	11.5	163.5	253.5	250	3.5	11.5	●
GWSLD1150A315	11.5	203.5	318.5	315	3.5	11.5	●
GWSLD1200A250	12.0	163.6	253.6	250	3.6	12.0	●
GWSLD1200A315	12.0	203.6	318.6	315	3.6	12.0	●
GWSLD1250A250	12.5	163.8	253.8	250	3.8	12.5	●
GWSLD1250A315	12.5	203.8	318.8	315	3.8	12.5	●
GWSLD1300A250	13.0	163.9	253.9	250	3.9	13.0	●
GWSLD1300A315	13.0	203.9	318.9	315	3.9	13.0	●

P

钻头

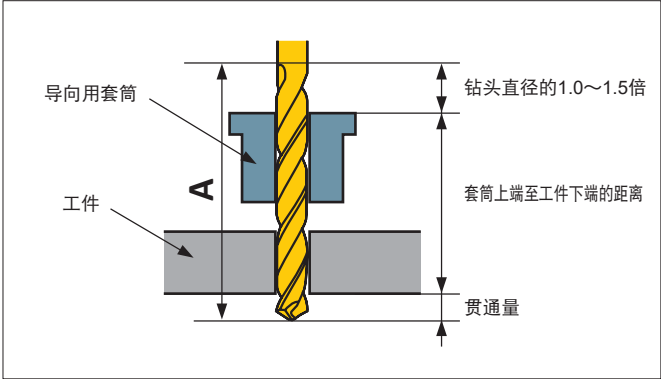
推荐切削条件

工件材料	结构钢 SS 碳钢S-C (－HRC25)		合金钢SCM 工具钢SK (－HRC35)		合金钢SCM 模具钢SKD (－HRC40)		铸铁 FC	
	直径 DC (mm)	转速 (min ^{－1})	进给量 (mm/rev)	转速 (min ^{－1})	进给量 (mm/rev)	转速 (min ^{－1})	进给量 (mm/rev)	转速 (min ^{－1})
2.0	4700	0.05	3600	0.03	2400	0.02	4700	0.05
3.0	3200	0.10	2400	0.08	1800	0.05	3500	0.10
6.0	1600	0.18	1200	0.15	900	0.13	1750	0.18
8.0	1200	0.20	900	0.18	680	0.15	1300	0.20
10.0	960	0.22	720	0.20	550	0.18	1100	0.22
12.0	800	0.24	600	0.22	450	0.20	880	0.24
13.0	730	0.26	550	0.23	400	0.21	800	0.26

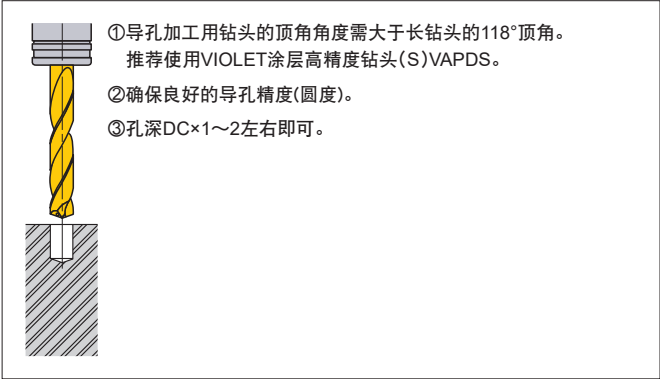
工件材料	不锈钢				铜合金、黄铜		铝合金	
	马氏体类SUS420 铁素体类SUS430		奥氏体类SUS304 析出硬化类SUS630					
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
2.0	2500	0.05	2300	0.04	4700	0.05	6000	0.08
3.0	1900	0.10	1500	0.07	3200	0.10	5500	0.13
6.0	950	0.18	750	0.10	1600	0.18	3100	0.23
8.0	700	0.20	530	0.13	1200	0.20	2300	0.28
10.0	560	0.22	420	0.15	960	0.22	1900	0.33
12.0	460	0.24	340	0.17	800	0.24	1600	0.38
13.0	420	0.25	300	0.18	730	0.25	1450	0.40

注1) 若钻削深孔,请参考切削条件减少率,降低各切削条件。
注2) 本表将钻削时使用水溶性切削液的切削条件作为标准条件,根据钻削的实际情况,请修正或调整切削条件。
注3) 高速长钻头与超硬长钻头相比刚性低,为了预防因钻头的偏转、弯曲引起故障,请使用用于导向的衬套及导孔(大约1~2DC)。
注4) 在使用用于导向的衬套时,请为了使槽长>A的尺寸(下图)选定钻头。

导向用套筒



导孔加工



P

钢

M

不锈钢

K

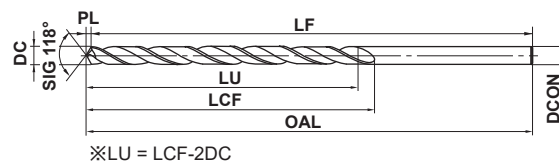
铸铁

N

有色金属

S

H



1 ≤ DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 13
0 -0.014	0 -0.018	0 -0.022	0 -0.027

● 广泛地用于钻削深孔。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
LSDD0100A100	1.0	25.3	100.3	100	0.3	1.0	●
LSDD0100A150	1.0	25.3	150.3	150	0.3	1.0	●
LSDD0110A100	1.1	25.3	100.3	100	0.3	1.1	●
LSDD0110A150	1.1	25.3	150.3	150	0.3	1.1	●
LSDD0120A100	1.2	25.4	100.4	100	0.4	1.2	●
LSDD0120A150	1.2	25.4	150.4	150	0.4	1.2	●
LSDD0130A100	1.3	30.4	100.4	100	0.4	1.3	●
LSDD0130A150	1.3	30.4	150.4	150	0.4	1.3	●
LSDD0140A100	1.4	30.4	100.4	100	0.4	1.4	●
LSDD0140A150	1.4	30.4	150.4	150	0.4	1.4	●
LSDD0150A100	1.5	30.5	100.5	100	0.5	1.5	●
LSDD0150A150	1.5	30.5	150.5	150	0.5	1.5	●
LSDD0160A100	1.6	40.5	100.5	100	0.5	1.6	●
LSDD0160A150	1.6	40.5	150.5	150	0.5	1.6	●
LSDD0170A100	1.7	40.5	100.5	100	0.5	1.7	●
LSDD0170A150	1.7	40.5	150.5	150	0.5	1.7	●
LSDD0180A100	1.8	40.5	100.5	100	0.5	1.8	●
LSDD0180A150	1.8	40.5	150.5	150	0.5	1.8	●
LSDD0190A100	1.9	40.6	100.6	100	0.6	1.9	●
LSDD0190A150	1.9	40.6	150.6	150	0.6	1.9	●
LSDD0200A100	2.0	50.6	100.6	100	0.6	2.0	●
LSDD0200A125	2.0	65.6	125.6	125	0.6	2.0	●
LSDD0200A150	2.0	75.6	150.6	150	0.6	2.0	●
LSDD0210A100	2.1	50.6	100.6	100	0.6	2.1	●
LSDD0210A150	2.1	75.6	150.6	150	0.6	2.1	●
LSDD0220A100	2.2	50.7	100.7	100	0.7	2.2	●
LSDD0220A150	2.2	75.7	150.7	150	0.7	2.2	●
LSDD0230A100	2.3	50.7	100.7	100	0.7	2.3	●
LSDD0230A150	2.3	75.7	150.7	150	0.7	2.3	●
LSDD0240A100	2.4	50.7	100.7	100	0.7	2.4	●
LSDD0240A150	2.4	75.7	150.7	150	0.7	2.4	●
LSDD0250A100	2.5	50.8	100.8	100	0.8	2.5	●
LSDD0250A125	2.5	65.8	125.8	125	0.8	2.5	●
LSDD0250A150	2.5	75.8	150.8	150	0.8	2.5	●
LSDD0260A100	2.6	50.8	100.8	100	0.8	2.6	●
LSDD0260A150	2.6	75.8	150.8	150	0.8	2.6	●
LSDD0270A100	2.7	50.8	100.8	100	0.8	2.7	●
LSDD0270A150	2.7	75.8	150.8	150	0.8	2.7	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
LSDD0280A100	2.8	50.8	100.8	100	0.8	2.8	●
LSDD0280A150	2.8	75.8	150.8	150	0.8	2.8	●
LSDD0290A100	2.9	50.9	100.9	100	0.9	2.9	●
LSDD0290A150	2.9	75.9	150.9	150	0.9	2.9	●
LSDD0300A100	3.0	50.9	100.9	100	0.9	3.0	●
LSDD0300A125	3.0	65.9	125.9	125	0.9	3.0	●
LSDD0300A150	3.0	75.9	150.9	150	0.9	3.0	●
LSDD0300A200	3.0	100.9	200.9	200	0.9	3.0	●
LSDD0310A150	3.1	75.9	150.9	150	0.9	3.1	●
LSDD0310A200	3.1	100.9	200.9	200	0.9	3.1	●
LSDD0320A125	3.2	66.0	126.0	125	1.0	3.2	●
LSDD0320A150	3.2	76.0	151.0	150	1.0	3.2	●
LSDD0320A200	3.2	101.0	201.0	200	1.0	3.2	●
LSDD0320A250	3.2	131.0	251.0	250	1.0	3.2	●
LSDD0330A150	3.3	76.0	151.0	150	1.0	3.3	●
LSDD0330A200	3.3	101.0	201.0	200	1.0	3.3	●
LSDD0340A150	3.4	76.0	151.0	150	1.0	3.4	●
LSDD0340A200	3.4	101.0	201.0	200	1.0	3.4	●
LSDD0350A125	3.5	66.1	126.1	125	1.1	3.5	●
LSDD0350A150	3.5	76.1	151.1	150	1.1	3.5	●
LSDD0350A200	3.5	101.1	201.1	200	1.1	3.5	●
LSDD0350A250	3.5	131.1	251.1	250	1.1	3.5	●
LSDD0360A150	3.6	76.1	151.1	150	1.1	3.6	●
LSDD0360A200	3.6	101.1	201.1	200	1.1	3.6	●
LSDD0370A150	3.7	76.1	151.1	150	1.1	3.7	●
LSDD0370A200	3.7	101.1	201.1	200	1.1	3.7	●
LSDD0380A150	3.8	76.1	151.1	150	1.1	3.8	●
LSDD0380A200	3.8	101.1	201.1	200	1.1	3.8	●
LSDD0390A150	3.9	76.2	151.2	150	1.2	3.9	●
LSDD0390A200	3.9	101.2	201.2	200	1.2	3.9	●
LSDD0400A125	4.0	71.2	126.2	125	1.2	4.0	●
LSDD0400A150	4.0	76.2	151.2	150	1.2	4.0	●
LSDD0400A200	4.0	101.2	201.2	200	1.2	4.0	●
LSDD0400A250	4.0	131.2	251.2	250	1.2	4.0	●
LSDD0410A150	4.1	76.2	151.2	150	1.2	4.1	●
LSDD0410A200	4.1	101.2	201.2	200	1.2	4.1	●
LSDD0420A150	4.2	76.3	151.3	150	1.3	4.2	●
LSDD0420A200	4.2	101.3	201.3	200	1.3	4.2	●

P

钻头

●：标准库存品

切削条件 > P191
技术资料 > R001

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
LSDD0430A150	4.3	76.3	151.3	150	1.3	4.3	●
LSDD0430A200	4.3	101.3	201.3	200	1.3	4.3	●
LSDD0440A150	4.4	76.3	151.3	150	1.3	4.4	●
LSDD0440A200	4.4	101.3	201.3	200	1.3	4.4	●
LSDD0450A125	4.5	71.4	126.4	125	1.4	4.5	●
LSDD0450A150	4.5	76.4	151.4	150	1.4	4.5	●
LSDD0450A200	4.5	101.4	201.4	200	1.4	4.5	●
LSDD0450A250	4.5	131.4	251.4	250	1.4	4.5	●
LSDD0460A150	4.6	91.4	151.4	150	1.4	4.6	●
LSDD0460A200	4.6	101.4	201.4	200	1.4	4.6	●
LSDD0470A150	4.7	91.4	151.4	150	1.4	4.7	●
LSDD0470A200	4.7	101.4	201.4	200	1.4	4.7	●
LSDD0480A150	4.8	91.4	151.4	150	1.4	4.8	●
LSDD0480A200	4.8	101.4	201.4	200	1.4	4.8	●
LSDD0490A150	4.9	91.5	151.5	150	1.5	4.9	●
LSDD0490A200	4.9	101.5	201.5	200	1.5	4.9	●
LSDD0500A150	5.0	91.5	151.5	150	1.5	5.0	●
LSDD0500A200	5.0	101.5	201.5	200	1.5	5.0	●
LSDD0500A250	5.0	131.5	251.5	250	1.5	5.0	●
LSDD0500A300	5.0	151.5	301.5	300	1.5	5.0	●
LSDD0510A200	5.1	101.5	201.5	200	1.5	5.1	●
LSDD0510A250	5.1	131.5	251.5	250	1.5	5.1	●
LSDD0520A200	5.2	101.6	201.6	200	1.6	5.2	●
LSDD0520A250	5.2	131.6	251.6	250	1.6	5.2	●
LSDD0530A200	5.3	101.6	201.6	200	1.6	5.3	●
LSDD0530A250	5.3	131.6	251.6	250	1.6	5.3	●
LSDD0540A200	5.4	101.6	201.6	200	1.6	5.4	●
LSDD0540A250	5.4	131.6	251.6	250	1.6	5.4	●
LSDD0550A150	5.5	91.7	151.7	150	1.7	5.5	●
LSDD0550A200	5.5	101.7	201.7	200	1.7	5.5	●
LSDD0550A250	5.5	131.7	251.7	250	1.7	5.5	●
LSDD0550A300	5.5	151.7	301.7	300	1.7	5.5	●
LSDD0560A200	5.6	101.7	201.7	200	1.7	5.6	●
LSDD0560A250	5.6	131.7	251.7	250	1.7	5.6	●
LSDD0570A200	5.7	101.7	201.7	200	1.7	5.7	●
LSDD0570A250	5.7	131.7	251.7	250	1.7	5.7	●
LSDD0580A200	5.8	101.7	201.7	200	1.7	5.8	●
LSDD0580A250	5.8	131.7	251.7	250	1.7	5.8	●
LSDD0590A200	5.9	101.8	201.8	200	1.8	5.9	●
LSDD0590A250	5.9	131.8	251.8	250	1.8	5.9	●
LSDD0600A150	6.0	91.8	151.8	150	1.8	6.0	●
LSDD0600A200	6.0	101.8	201.8	200	1.8	6.0	●
LSDD0600A250	6.0	131.8	251.8	250	1.8	6.0	●
LSDD0600A300	6.0	151.8	301.8	300	1.8	6.0	●
LSDD0640A200	6.4	121.9	201.9	200	1.9	6.4	●
LSDD0650A150	6.5	92.0	152.0	150	2.0	6.5	●
LSDD0650A200	6.5	122.0	202.0	200	2.0	6.5	●
LSDD0650A250	6.5	132.0	252.0	250	2.0	6.5	●
LSDD0650A300	6.5	152.0	302.0	300	2.0	6.5	●
LSDD0700A150	7.0	92.1	152.1	150	2.1	7.0	●
LSDD0700A200	7.0	122.1	202.1	200	2.1	7.0	●
LSDD0700A250	7.0	132.1	252.1	250	2.1	7.0	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
LSDD0700A300	7.0	152.1	302.1	300	2.1	7.0	●
LSDD0750A150	7.5	92.3	152.3	150	2.3	7.5	●
LSDD0750A200	7.5	122.3	202.3	200	2.3	7.5	●
LSDD0750A250	7.5	132.3	252.3	250	2.3	7.5	●
LSDD0750A300	7.5	152.3	302.3	300	2.3	7.5	●
LSDD0800A150	8.0	92.4	152.4	150	2.4	8.0	●
LSDD0800A200	8.0	122.4	202.4	200	2.4	8.0	●
LSDD0800A250	8.0	132.4	252.4	250	2.4	8.0	●
LSDD0800A300	8.0	152.4	302.4	300	2.4	8.0	●
LSDD0850A200	8.5	122.6	202.6	200	2.6	8.5	●
LSDD0850A250	8.5	132.6	252.6	250	2.6	8.5	●
LSDD0850A300	8.5	182.6	302.6	300	2.6	8.5	●
LSDD0850A350	8.5	202.6	352.6	350	2.6	8.5	●
LSDD0900A200	9.0	122.7	202.7	200	2.7	9.0	●
LSDD0900A250	9.0	132.7	252.7	250	2.7	9.0	●
LSDD0900A300	9.0	182.7	302.7	300	2.7	9.0	●
LSDD0900A350	9.0	202.7	352.7	350	2.7	9.0	●
LSDD0950A200	9.5	122.9	202.9	200	2.9	9.5	●
LSDD0950A250	9.5	132.9	252.9	250	2.9	9.5	●
LSDD0950A300	9.5	182.9	302.9	300	2.9	9.5	●
LSDD0950A350	9.5	202.9	352.9	350	2.9	9.5	●
LSDD1000A200	10.0	123.0	203.0	200	3.0	10.0	●
LSDD1000A250	10.0	133.0	253.0	250	3.0	10.0	●
LSDD1000A300	10.0	183.0	303.0	300	3.0	10.0	●
LSDD1000A350	10.0	203.0	353.0	350	3.0	10.0	●
LSDD1050A200	10.5	123.2	203.2	200	3.2	10.5	●
LSDD1050A250	10.5	133.2	253.2	250	3.2	10.5	●
LSDD1050A300	10.5	183.2	303.2	300	3.2	10.5	●
LSDD1050A350	10.5	203.2	353.2	350	3.2	10.5	●
LSDD1100A200	11.0	123.3	203.3	200	3.3	11.0	●
LSDD1100A250	11.0	133.3	253.3	250	3.3	11.0	●
LSDD1100A300	11.0	183.3	303.3	300	3.3	11.0	●
LSDD1100A350	11.0	203.3	353.3	350	3.3	11.0	●
LSDD1150A200	11.5	123.5	203.5	200	3.5	11.5	●
LSDD1150A250	11.5	133.5	253.5	250	3.5	11.5	●
LSDD1150A300	11.5	183.5	303.5	300	3.5	11.5	●
LSDD1150A350	11.5	203.5	353.5	350	3.5	11.5	●
LSDD1200A200	12.0	123.6	203.6	200	3.6	12.0	●
LSDD1200A250	12.0	133.6	253.6	250	3.6	12.0	●
LSDD1200A300	12.0	183.6	303.6	300	3.6	12.0	●
LSDD1200A350	12.0	203.6	353.6	350	3.6	12.0	●
LSDD1250A200	12.5	123.8	203.8	200	3.8	12.5	●
LSDD1250A250	12.5	133.8	253.8	250	3.8	12.5	●
LSDD1250A300	12.5	183.8	303.8	300	3.8	12.5	●
LSDD1250A350	12.5	203.8	353.8	350	3.8	12.5	●
LSDD1300A200	13.0	123.9	203.9	200	3.9	13.0	●
LSDD1300A250	13.0	133.9	253.9	250	3.9	13.0	●
LSDD1300A300	13.0	183.9	303.9	300	3.9	13.0	●
LSDD1300A350	13.0	203.9	353.9	350	3.9	13.0	●

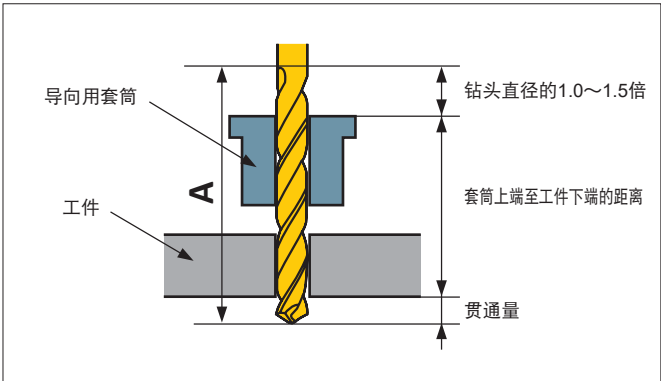
推荐切削条件

工件材料	结构钢 SS 碳钢S-C (-HRC25)		合金钢SCM 工具钢SK (-HRC35)		合金钢SCM 模具钢SKD (-HRC40)		铸铁 FC	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
1.0	5000	0.02	4000	0.01	2800	0.008	5000	0.02
2.0	3000	0.05	2500	0.03	1800	0.02	3000	0.05
3.0	2100	0.10	1800	0.08	1200	0.05	2300	0.10
6.0	1100	0.18	900	0.15	600	0.13	1100	0.18
8.0	800	0.20	670	0.18	450	0.15	900	0.20
10.0	650	0.22	540	0.20	350	0.18	700	0.22
12.0	520	0.24	450	0.22	300	0.20	600	0.24
13.0	480	0.26	410	0.23	280	0.21	540	0.26

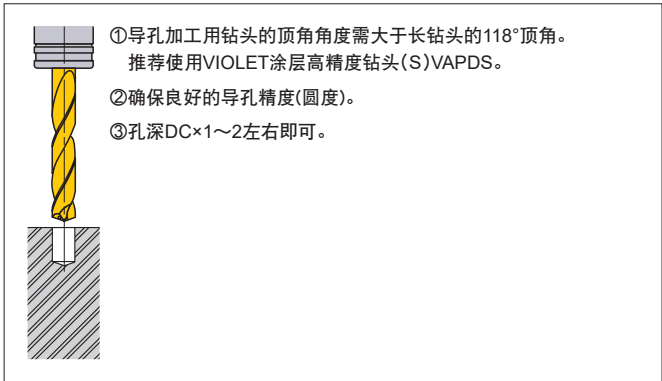
工件材料	不锈钢				铜合金、黄铜		铝合金	
	马氏体类SUS420 铁素体类SUS430		奥氏体类SUS304 析出硬化类SUS630					
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
1.0	4000	0.02	3000	0.02	5000	0.02	7000	0.04
2.0	2200	0.05	1500	0.04	3000	0.05	5000	0.08
3.0	1600	0.10	1000	0.07	2100	0.10	4200	0.13
6.0	800	0.18	530	0.10	1100	0.18	2100	0.23
8.0	600	0.20	400	0.13	800	0.20	1600	0.28
10.0	480	0.22	310	0.15	650	0.22	1200	0.33
12.0	400	0.24	250	0.17	520	0.24	1000	0.38
13.0	370	0.25	200	0.18	480	0.25	970	0.40

- 注1) 若钻削深孔,请参考切削条件减少率,降低各切削条件。
 注2) 本表将钻削时使用水溶性切削液的切削条件作为标准条件,根据钻削的实际情况,请修正或调整切削条件。
 注3) 高速长钻头与超硬长钻头相比刚性低,为了预防因钻头的偏转、弯曲引起故障,请使用用于导向的衬套及导孔(大约1~2DC)。
 注4) 在使用用于导向的衬套时,请为了使槽长>A的尺寸(下图)选定钻头。

导向用套筒



导孔加工



P

钻头



P

钢

M

不锈钢

K

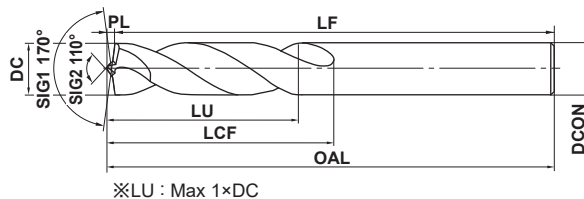
铸铁

N

有色金属

S

H



$2 \leq DC \leq 3$	$3 < DC \leq 6$	$6 < DC \leq 10$	$10 < DC \leq 13$
0 -0.014	0 -0.018	0 -0.022	0 -0.027

● 由于钻头切削刃磨成特殊形状, 钻削孔无毛刺。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
EPSSD0200	2.0	17	48.3	48	0.3	2.0	●
EPSSD0210	2.1	17	48.3	48	0.3	2.1	●
EPSSD0220	2.2	17	48.3	48	0.3	2.2	●
EPSSD0230	2.3	17	48.3	48	0.3	2.3	●
EPSSD0240	2.4	17	48.3	48	0.3	2.4	●
EPSSD0250	2.5	17	48.4	48	0.4	2.5	●
EPSSD0260	2.6	17	48.4	48	0.4	2.6	●
EPSSD0270	2.7	17	48.4	48	0.4	2.7	●
EPSSD0280	2.8	17	48.4	48	0.4	2.8	●
EPSSD0290	2.9	17	48.4	48	0.4	2.9	●
EPSSD0300	3.0	17	48.5	48	0.5	3.0	●
EPSSD0310	3.1	17	48.5	48	0.5	3.1	●
EPSSD0320	3.2	17	48.5	48	0.5	3.2	●
EPSSD0330	3.3	17	48.5	48	0.5	3.3	●
EPSSD0340	3.4	19	51.5	51	0.5	3.4	●
EPSSD0350	3.5	19	51.6	51	0.6	3.5	●
EPSSD0360	3.6	19	51.6	51	0.6	3.6	●
EPSSD0370	3.7	19	51.6	51	0.6	3.7	●
EPSSD0380	3.8	21	54.6	54	0.6	3.8	●
EPSSD0390	3.9	21	54.6	54	0.6	3.9	●
EPSSD0400	4.0	21	54.6	54	0.6	4.0	●
EPSSD0410	4.1	21	54.6	54	0.6	4.1	●
EPSSD0420	4.2	21	54.6	54	0.6	4.2	●
EPSSD0430	4.3	23	57.6	57	0.6	4.3	●
EPSSD0440	4.4	23	57.6	57	0.6	4.4	●
EPSSD0450	4.5	23	57.7	57	0.7	4.5	●
EPSSD0460	4.6	23	57.7	57	0.7	4.6	●
EPSSD0470	4.7	23	57.7	57	0.7	4.7	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
EPSSD0480	4.8	24	60.7	60	0.7	4.8	●
EPSSD0490	4.9	24	60.7	60	0.7	4.9	●
EPSSD0500	5.0	24	60.8	60	0.8	5.0	●
EPSSD0510	5.1	24	60.8	60	0.8	5.1	●
EPSSD0520	5.2	24	60.8	60	0.8	5.2	●
EPSSD0530	5.3	24	60.8	60	0.8	5.3	●
EPSSD0540	5.4	26	64.8	64	0.8	5.4	●
EPSSD0550	5.5	26	64.9	64	0.9	5.5	●
EPSSD0600	6.0	26	65.0	64	1.0	6.0	●
EPSSD0650	6.5	29	69.0	68	1.0	6.5	●
EPSSD0680	6.8	32	73.1	72	1.1	6.8	●
EPSSD0700	7.0	32	73.1	72	1.1	7.0	●
EPSSD0750	7.5	32	73.2	72	1.2	7.5	●
EPSSD0800	8.0	34	77.3	76	1.3	8.0	●
EPSSD0820	8.2	34	77.3	76	1.3	8.2	●
EPSSD0850	8.5	34	77.4	76	1.4	8.5	●
EPSSD0900	9.0	37	82.5	81	1.5	9.0	●
EPSSD0950	9.5	37	82.6	81	1.6	9.5	●
EPSSD1000	10.0	40	87.6	86	1.6	10.0	●
EPSSD1020	10.2	40	87.6	86	1.6	10.2	●
EPSSD1030	10.3	40	87.6	86	1.6	10.3	●
EPSSD1050	10.5	40	87.7	86	1.7	10.5	●
EPSSD1100	11.0	43	92.8	91	1.8	11.0	●
EPSSD1150	11.5	43	92.9	91	1.9	11.5	●
EPSSD1200	12.0	47	100.0	98	2.0	12.0	●
EPSSD1250	12.5	47	100.0	98	2.0	12.5	●
EPSSD1300	13.0	47	100.2	98	2.2	13.0	●

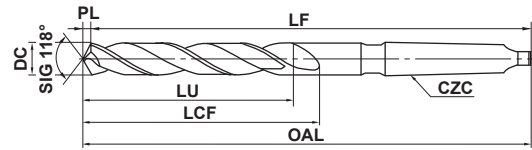
P

钻头

●: 标准库存品



P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属		



DC=6	6<DC≤10	10<DC≤18	18<DC≤30	30<DC≤40
0 -0.018	0 -0.022	0 -0.027	0 -0.033	0 -0.039

● 本公司独有的制造工艺和涂层技术，极大地提高了钻削效率。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
GTDD0600M1	6.0	56.8	149.8	148	1.8	MT.1	●
GTDD0650M1	6.5	63.0	154.0	152	2.0	MT.1	●
GTDD0660M1	6.6	63.0	157.0	155	2.0	MT.1	●
GTDD0680M1	6.8	69.0	157.0	155	2.0	MT.1	●
GTDD0700M1	7.0	69.1	157.1	155	2.1	MT.1	●
GTDD0720M1	7.2	69.2	160.2	158	2.2	MT.1	●
GTDD0750M1	7.5	69.3	160.3	158	2.3	MT.1	●
GTDD0770M1	7.7	74.3	164.3	162	2.3	MT.1	●
GTDD0780M1	7.8	74.3	164.3	162	2.3	MT.1	●
GTDD0800M1	8.0	74.4	164.4	162	2.4	MT.1	●
GTDD0820M1	8.2	74.5	170.5	168	2.5	MT.1	●
GTDD0850M1	8.5	74.6	170.6	168	2.6	MT.1	●
GTDD0880M1	8.8	80.6	174.6	172	2.6	MT.1	●
GTDD0900M1	9.0	80.7	174.7	172	2.7	MT.1	●
GTDD0950M1	9.5	80.9	177.9	175	2.9	MT.1	●
GTDD0970M1	9.7	86.9	180.9	178	2.9	MT.1	●
GTDD0980M1	9.8	86.9	180.9	178	2.9	MT.1	●
GTDD1000M1	10.0	87.0	181.0	178	3.0	MT.1	●
GTDD1030M1	10.3	87.1	185.1	182	3.1	MT.1	●
GTDD1050M1	10.5	87.2	185.2	182	3.2	MT.1	●
GTDD1080M1	10.8	93.2	188.2	185	3.2	MT.1	●
GTDD1100M1	11.0	93.3	188.3	185	3.3	MT.1	●
GTDD1150M1	11.5	93.5	191.5	188	3.5	MT.1	●
GTDD1200M1	12.0	100.6	195.6	192	3.6	MT.1	●
GTDD1250M1	12.5	100.8	198.8	195	3.8	MT.1	●
GTDD1300M1	13.0	100.9	201.9	198	3.9	MT.1	●
GTDD1350M1	13.5	107.1	206.1	202	4.1	MT.1	●
GTDD1400M1	14.0	107.2	209.2	205	4.2	MT.1	●
GTDD1450M2	14.5	113.4	226.4	222	4.4	MT.2	●
GTDD1500M2	15.0	113.5	229.5	225	4.5	MT.2	●
GTDD1550M2	15.5	119.7	232.7	228	4.7	MT.2	●
GTDD1600M2	16.0	119.8	234.8	230	4.8	MT.2	●
GTDD1650M2	16.5	124.0	237.0	232	5.0	MT.2	●
GTDD1700M2	17.0	124.1	240.1	235	5.1	MT.2	●
GTDD1750M2	17.5	129.3	245.3	240	5.3	MT.2	●
GTDD1800M2	18.0	129.4	245.4	240	5.4	MT.2	●
GTDD1850M2	18.5	134.6	250.6	245	5.6	MT.2	●
GTDD1900M2	19.0	134.7	250.7	245	5.7	MT.2	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
GTDD1950M2	19.5	138.9	255.9	250	5.9	MT.2	●
GTDD2000M2	20.0	139.0	256.0	250	6.0	MT.2	●
GTDD2050M2	20.5	144.2	261.2	255	6.2	MT.2	●
GTDD2100M2	21.0	144.3	261.3	255	6.3	MT.2	●
GTDD2150M2	21.5	149.5	266.5	260	6.5	MT.2	●
GTDD2150M3	21.5	149.5	286.5	280	6.5	MT.3	●
GTDD2200M2	22.0	149.6	266.6	260	6.6	MT.2	●
GTDD2200M3	22.0	149.6	286.6	280	6.6	MT.3	●
GTDD2250M2	22.5	153.8	271.8	265	6.8	MT.2	●
GTDD2250M3	22.5	153.8	291.8	285	6.8	MT.3	●
GTDD2300M2	23.0	153.9	271.9	265	6.9	MT.2	●
GTDD2300M3	23.0	153.9	291.9	285	6.9	MT.3	●
GTDD2350M3	23.5	154.1	292.1	285	7.1	MT.3	●
GTDD2400M3	24.0	159.2	292.2	285	7.2	MT.3	●
GTDD2450M3	24.5	159.4	292.4	285	7.4	MT.3	●
GTDD2500M3	25.0	159.5	292.5	285	7.5	MT.3	●
GTDD2550M3	25.5	163.7	292.7	285	7.7	MT.3	●
GTDD2600M3	26.0	163.8	292.8	285	7.8	MT.3	●
GTDD2650M3	26.5	164.0	298.0	290	8.0	MT.3	●
GTDD2700M3	27.0	169.1	298.1	290	8.1	MT.3	●
GTDD2750M3	27.5	169.3	303.3	295	8.3	MT.3	●
GTDD2800M3	28.0	169.4	303.4	295	8.4	MT.3	●
GTDD2850M3	28.5	173.6	308.6	300	8.6	MT.3	●
GTDD2900M3	29.0	173.7	308.7	300	8.7	MT.3	●
GTDD2950M3	29.5	173.9	313.9	305	8.9	MT.3	●
GTDD3000M3	30.0	174.0	314.0	305	9.0	MT.3	●
GTDD3050M3	30.5	179.2	319.2	310	9.2	MT.3	●
GTDD3100M3	31.0	179.3	319.3	310	9.3	MT.3	●
GTDD3150M3	31.5	179.5	324.5	315	9.5	MT.3	●
GTDD3200M3	32.0	183.6	324.6	315	9.6	MT.3	●
GTDD3300M4	33.0	183.9	354.9	345	9.9	MT.4	●
GTDD3400M4	34.0	189.2	360.2	350	10.2	MT.4	●
GTDD3500M4	35.0	189.5	360.5	350	10.5	MT.4	●
GTDD3600M4	36.0	193.8	365.8	355	10.8	MT.4	●
GTDD3700M4	37.0	194.1	366.1	355	11.1	MT.4	●
GTDD3800M4	38.0	198.4	371.4	360	11.4	MT.4	●
GTDD3900M4	39.0	198.7	371.7	360	11.7	MT.4	●
GTDD4000M4	40.0	199.0	377.0	365	12.0	MT.4	●

锥柄钻头

TD

锥柄钻头



DC>40

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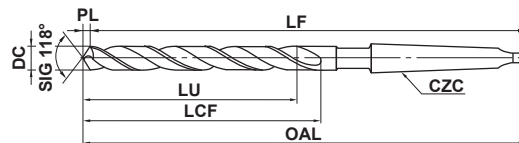
铸铁

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※LU = LCF-2DC



DC=3	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤30	30<DC≤50	50<DC≤75
0	0	0	0	0	0	0
-0.014	-0.018	-0.022	-0.027	-0.033	-0.039	-0.046

● 钻削一般孔用。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD0300M1	3.0	38.9	115.9	115	0.9	MT.1	●
TDD0310M1	3.1	45.9	122.9	122	0.9	MT.1	●
TDD0320M1	3.2	46.0	123.0	122	1.0	MT.1	●
TDD0330M1	3.3	46.0	123.0	122	1.0	MT.1	●
TDD0340M1	3.4	46.0	123.0	122	1.0	MT.1	●
TDD0350M1	3.5	46.1	123.1	122	1.1	MT.1	●
TDD0360M1	3.6	51.1	129.1	128	1.1	MT.1	●
TDD0370M1	3.7	51.1	129.1	128	1.1	MT.1	●
TDD0380M1	3.8	51.1	129.1	128	1.1	MT.1	●
TDD0390M1	3.9	51.2	129.2	128	1.2	MT.1	●
TDD0400M1	4.0	51.2	129.2	128	1.2	MT.1	●
TDD0410M1	4.1	56.2	136.2	135	1.2	MT.1	●
TDD0420M1	4.2	56.3	136.3	135	1.3	MT.1	●
TDD0430M1	4.3	56.3	136.3	135	1.3	MT.1	●
TDD0440M1	4.4	56.3	136.3	135	1.3	MT.1	●
TDD0450M1	4.5	56.4	136.4	135	1.4	MT.1	●
TDD0460M1	4.6	61.4	141.4	140	1.4	MT.1	●
TDD0470M1	4.7	61.4	141.4	140	1.4	MT.1	●
TDD0480M1	4.8	61.4	141.4	140	1.4	MT.1	●
TDD0490M1	4.9	61.5	141.5	140	1.5	MT.1	●
TDD0500M1	5.0	61.5	141.5	140	1.5	MT.1	●
TDD0510M1	5.1	66.5	146.5	145	1.5	MT.1	●
TDD0520M1	5.2	66.6	146.6	145	1.6	MT.1	●
TDD0530M1	5.3	66.6	146.6	145	1.6	MT.1	●
TDD0540M1	5.4	66.6	146.6	145	1.6	MT.1	●
TDD0550M1	5.5	66.7	146.7	145	1.7	MT.1	●
TDD0560M1	5.6	69.7	149.7	148	1.7	MT.1	●
TDD0570M1	5.7	69.7	149.7	148	1.7	MT.1	●
TDD0580M1	5.8	69.7	149.7	148	1.7	MT.1	●
TDD0590M1	5.9	69.8	149.8	148	1.8	MT.1	●
TDD0600M1	6.0	69.8	149.8	148	1.8	MT.1	●
TDD0610M1	6.1	73.8	153.8	152	1.8	MT.1	●
TDD0620M1	6.2	73.9	153.9	152	1.9	MT.1	●
TDD0630M1	6.3	73.9	153.9	152	1.9	MT.1	●
TDD0640M1	6.4	73.9	153.9	152	1.9	MT.1	●
TDD0650M1	6.5	74.0	154.0	152	2.0	MT.1	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD0660M1	6.6	77.0	157.0	155	2.0	MT.1	●
TDD0670M1	6.7	77.0	157.0	155	2.0	MT.1	●
TDD0680M1	6.8	77.0	157.0	155	2.0	MT.1	●
TDD0690M1	6.9	77.1	157.1	155	2.1	MT.1	●
TDD0700M1	7.0	77.1	157.1	155	2.1	MT.1	●
TDD0710M1	7.1	80.1	160.1	158	2.1	MT.1	●
TDD0720M1	7.2	80.2	160.2	158	2.2	MT.1	●
TDD0730M1	7.3	80.2	160.2	158	2.2	MT.1	●
TDD0740M1	7.4	80.2	160.2	158	2.2	MT.1	●
TDD0750M1	7.5	80.3	160.3	158	2.3	MT.1	●
TDD0760M1	7.6	84.3	164.3	162	2.3	MT.1	●
TDD0770M1	7.7	84.3	164.3	162	2.3	MT.1	●
TDD0780M1	7.8	84.3	164.3	162	2.3	MT.1	●
TDD0790M1	7.9	84.4	164.4	162	2.4	MT.1	●
TDD0800M1	8.0	84.4	164.4	162	2.4	MT.1	●
TDD0810M1	8.1	87.4	170.4	168	2.4	MT.1	●
TDD0820M1	8.2	87.5	170.5	168	2.5	MT.1	●
TDD0830M1	8.3	87.5	170.5	168	2.5	MT.1	●
TDD0840M1	8.4	87.5	170.5	168	2.5	MT.1	●
TDD0850M1	8.5	87.6	170.6	168	2.6	MT.1	●
TDD0860M1	8.6	90.6	174.6	172	2.6	MT.1	●
TDD0870M1	8.7	90.6	174.6	172	2.6	MT.1	●
TDD0880M1	8.8	90.6	174.6	172	2.6	MT.1	●
TDD0890M1	8.9	90.7	174.7	172	2.7	MT.1	●
TDD0900M1	9.0	90.7	174.7	172	2.7	MT.1	●
TDD0910M1	9.1	94.7	177.7	175	2.7	MT.1	●
TDD0920M1	9.2	94.8	177.8	175	2.8	MT.1	●
TDD0930M1	9.3	94.8	177.8	175	2.8	MT.1	●
TDD0940M1	9.4	94.8	177.8	175	2.8	MT.1	●
TDD0950M1	9.5	94.9	177.9	175	2.9	MT.1	●
TDD0960M1	9.6	97.9	180.9	178	2.9	MT.1	●
TDD0970M1	9.7	97.9	180.9	178	2.9	MT.1	●
TDD0980M1	9.8	97.9	180.9	178	2.9	MT.1	●
TDD0990M1	9.9	98.0	181.0	178	3.0	MT.1	●
TDD1000M1	10.0	98.0	181.0	178	3.0	MT.1	●
TDD1010M1	10.1	101.0	185.0	182	3.0	MT.1	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD1020M1	10.2	101.1	185.1	182	3.1	MT.1	●
TDD1030M1	10.3	101.1	185.1	182	3.1	MT.1	●
TDD1040M1	10.4	101.1	185.1	182	3.1	MT.1	●
TDD1050M1	10.5	101.2	185.2	182	3.2	MT.1	●
TDD1060M1	10.6	105.2	188.2	185	3.2	MT.1	●
TDD1070M1	10.7	105.2	188.2	185	3.2	MT.1	●
TDD1080M1	10.8	105.2	188.2	185	3.2	MT.1	●
TDD1090M1	10.9	105.3	188.3	185	3.3	MT.1	●
TDD1100M1	11.0	105.3	188.3	185	3.3	MT.1	●
TDD1110M1	11.1	108.3	191.3	188	3.3	MT.1	●
TDD1120M1	11.2	108.4	191.4	188	3.4	MT.1	●
TDD1130M1	11.3	108.4	191.4	188	3.4	MT.1	●
TDD1140M1	11.4	108.4	191.4	188	3.4	MT.1	●
TDD1150M1	11.5	108.5	191.5	188	3.5	MT.1	●
TDD1160M1	11.6	111.5	195.5	192	3.5	MT.1	●
TDD1170M1	11.7	111.5	195.5	192	3.5	MT.1	●
TDD1180M1	11.8	111.5	195.5	192	3.5	MT.1	●
TDD1190M1	11.9	111.6	195.6	192	3.6	MT.1	●
TDD1200M1	12.0	111.6	195.6	192	3.6	MT.1	●
TDD1210M1	12.1	115.6	198.6	195	3.6	MT.1	●
TDD1220M1	12.2	115.7	198.7	195	3.7	MT.1	●
TDD1230M1	12.3	115.7	198.7	195	3.7	MT.1	●
TDD1240M1	12.4	115.7	198.7	195	3.7	MT.1	●
TDD1250M1	12.5	115.8	198.8	195	3.8	MT.1	●
TDD1260M1	12.6	118.8	201.8	198	3.8	MT.1	●
TDD1270M1	12.7	118.8	201.8	198	3.8	MT.1	●
TDD1280M1	12.8	118.8	201.8	198	3.8	MT.1	●
TDD1290M1	12.9	118.9	201.9	198	3.9	MT.1	●
TDD1300M1	13.0	118.9	201.9	198	3.9	MT.1	●
TDD1310M1	13.1	121.9	205.9	202	3.9	MT.1	●
TDD1320M1	13.2	122.0	206.0	202	4.0	MT.1	●
TDD1330M1	13.3	122.0	206.0	202	4.0	MT.1	●
TDD1340M1	13.4	122.0	206.0	202	4.0	MT.1	●
TDD1350M1	13.5	122.1	206.1	202	4.1	MT.1	●
TDD1360M1	13.6	126.1	209.1	205	4.1	MT.1	●
TDD1370M1	13.7	126.1	209.1	205	4.1	MT.1	●
TDD1380M1	13.8	126.1	209.1	205	4.1	MT.1	●
TDD1390M1	13.9	126.2	209.2	205	4.2	MT.1	●
TDD1400M1	14.0	126.2	209.2	205	4.2	MT.1	●
TDD1410M2	14.1	126.2	226.2	222	4.2	MT.2	●
TDD1420M2	14.2	126.3	226.3	222	4.3	MT.2	●
TDD1430M2	14.3	126.3	226.3	222	4.3	MT.2	●
TDD1440M2	14.4	126.3	226.3	222	4.3	MT.2	●
TDD1450M2	14.5	126.4	226.4	222	4.4	MT.2	●
TDD1460M2	14.6	129.4	229.4	225	4.4	MT.2	●
TDD1470M2	14.7	129.4	229.4	225	4.4	MT.2	●
TDD1480M2	14.8	129.4	229.4	225	4.4	MT.2	●
TDD1490M2	14.9	129.5	229.5	225	4.5	MT.2	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD1500M2	15.0	129.5	229.5	225	4.5	MT.2	●
TDD1510M2	15.1	132.5	232.5	228	4.5	MT.2	●
TDD1520M2	15.2	132.6	232.6	228	4.6	MT.2	●
TDD1530M2	15.3	132.6	232.6	228	4.6	MT.2	●
TDD1540M2	15.4	132.6	232.6	228	4.6	MT.2	●
TDD1550M2	15.5	132.7	232.7	228	4.7	MT.2	●
TDD1560M2	15.6	134.7	234.7	230	4.7	MT.2	●
TDD1570M2	15.7	134.7	234.7	230	4.7	MT.2	●
TDD1580M2	15.8	134.7	234.7	230	4.7	MT.2	●
TDD1590M2	15.9	134.8	234.8	230	4.8	MT.2	●
TDD1600M2	16.0	134.8	234.8	230	4.8	MT.2	●
TDD1610M2	16.1	136.8	236.8	232	4.8	MT.2	●
TDD1620M2	16.2	136.9	236.9	232	4.9	MT.2	●
TDD1630M2	16.3	136.9	236.9	232	4.9	MT.2	●
TDD1640M2	16.4	136.9	236.9	232	4.9	MT.2	●
TDD1650M2	16.5	137.0	237.0	232	5.0	MT.2	●
TDD1660M2	16.6	140.0	240.0	235	5.0	MT.2	●
TDD1670M2	16.7	140.0	240.0	235	5.0	MT.2	●
TDD1680M2	16.8	140.0	240.0	235	5.0	MT.2	●
TDD1690M2	16.9	140.1	240.1	235	5.1	MT.2	●
TDD1700M2	17.0	140.1	240.1	235	5.1	MT.2	●
TDD1710M2	17.1	145.1	245.1	240	5.1	MT.2	●
TDD1720M2	17.2	145.2	245.2	240	5.2	MT.2	●
TDD1730M2	17.3	145.2	245.2	240	5.2	MT.2	●
TDD1740M2	17.4	145.2	245.2	240	5.2	MT.2	●
TDD1750M2	17.5	145.3	245.3	240	5.3	MT.2	●
TDD1760M2	17.6	145.3	245.3	240	5.3	MT.2	●
TDD1770M2	17.7	145.3	245.3	240	5.3	MT.2	●
TDD1780M2	17.8	145.3	245.3	240	5.3	MT.2	●
TDD1790M2	17.9	145.4	245.4	240	5.4	MT.2	●
TDD1800M2	18.0	145.4	245.4	240	5.4	MT.2	●
TDD1810M2	18.1	150.4	250.4	245	5.4	MT.2	●
TDD1820M2	18.2	150.5	250.5	245	5.5	MT.2	●
TDD1830M2	18.3	150.5	250.5	245	5.5	MT.2	●
TDD1840M2	18.4	150.5	250.5	245	5.5	MT.2	●
TDD1850M2	18.5	150.6	250.6	245	5.6	MT.2	●
TDD1860M2	18.6	150.6	250.6	245	5.6	MT.2	●
TDD1870M2	18.7	150.6	250.6	245	5.6	MT.2	●
TDD1880M2	18.8	150.6	250.6	245	5.6	MT.2	●
TDD1890M2	18.9	150.7	250.7	245	5.7	MT.2	●
TDD1900M2	19.0	150.7	250.7	245	5.7	MT.2	●
TDD1910M2	19.1	155.7	255.7	250	5.7	MT.2	●
TDD1920M2	19.2	155.8	255.8	250	5.8	MT.2	●
TDD1930M2	19.3	155.8	255.8	250	5.8	MT.2	●
TDD1940M2	19.4	155.8	255.8	250	5.8	MT.2	●
TDD1950M2	19.5	155.9	255.9	250	5.9	MT.2	●
TDD1960M2	19.6	155.9	255.9	250	5.9	MT.2	●
TDD1970M2	19.7	155.9	255.9	250	5.9	MT.2	●

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钻头

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD1980M2	19.8	155.9	255.9	250	5.9	MT.2	●
TDD1990M2	19.9	156.0	256.0	250	6.0	MT.2	●
TDD2000M2	20.0	156.0	256.0	250	6.0	MT.2	●
TDD2010M2	20.1	161.0	261.0	255	6.0	MT.2	●
TDD2020M2	20.2	161.1	261.1	255	6.1	MT.2	●
TDD2030M2	20.3	161.1	261.1	255	6.1	MT.2	●
TDD2040M2	20.4	161.1	261.1	255	6.1	MT.2	●
TDD2050M2	20.5	161.2	261.2	255	6.2	MT.2	●
TDD2060M2	20.6	161.2	261.2	255	6.2	MT.2	●
TDD2070M2	20.7	161.2	261.2	255	6.2	MT.2	●
TDD2080M2	20.8	161.2	261.2	255	6.2	MT.2	●
TDD2090M2	20.9	161.3	261.3	255	6.3	MT.2	●
TDD2100M2	21.0	161.3	261.3	255	6.3	MT.2	●
TDD2110M2	21.1	166.3	266.3	260	6.3	MT.2	●
TDD2120M2	21.2	166.4	266.4	260	6.4	MT.2	●
TDD2130M2	21.3	166.4	266.4	260	6.4	MT.2	●
TDD2140M2	21.4	166.4	266.4	260	6.4	MT.2	●
TDD2150M2	21.5	166.5	266.5	260	6.5	MT.2	●
TDD2160M2	21.6	166.5	266.5	260	6.5	MT.2	●
TDD2170M2	21.7	166.5	266.5	260	6.5	MT.2	●
TDD2180M2	21.8	166.5	266.5	260	6.5	MT.2	●
TDD2190M2	21.9	166.6	266.6	260	6.6	MT.2	●
TDD2200M2	22.0	166.6	266.6	260	6.6	MT.2	●
TDD2210M2	22.1	171.6	271.6	265	6.6	MT.2	●
TDD2220M2	22.2	171.7	271.7	265	6.7	MT.2	●
TDD2230M2	22.3	171.7	271.7	265	6.7	MT.2	●
TDD2240M2	22.4	171.7	271.7	265	6.7	MT.2	●
TDD2250M2	22.5	171.8	271.8	265	6.8	MT.2	●
TDD2260M2	22.6	171.8	271.8	265	6.8	MT.2	●
TDD2270M2	22.7	171.8	271.8	265	6.8	MT.2	●
TDD2280M2	22.8	171.8	271.8	265	6.8	MT.2	●
TDD2290M2	22.9	171.9	271.9	265	6.9	MT.2	●
TDD2300M2	23.0	171.9	271.9	265	6.9	MT.2	●
TDD2350M3	23.5	172.1	292.1	285	7.1	MT.3	●
TDD2400M3	24.0	172.2	292.2	285	7.2	MT.3	●
TDD2450M3	24.5	172.4	292.4	285	7.4	MT.3	●
TDD2500M3	25.0	172.5	292.5	285	7.5	MT.3	●
TDD2550M3	25.5	172.7	292.7	285	7.7	MT.3	●
TDD2600M3	26.0	172.8	292.8	285	7.8	MT.3	●
TDD2650M3	26.5	178.0	298.0	290	8.0	MT.3	●
TDD2700M3	27.0	178.1	298.1	290	8.1	MT.3	●
TDD2750M3	27.5	183.3	303.3	295	8.3	MT.3	●
TDD2800M3	28.0	183.4	303.4	295	8.4	MT.3	●
TDD2850M3	28.5	188.6	308.6	300	8.6	MT.3	●
TDD2900M3	29.0	188.7	308.7	300	8.7	MT.3	●
TDD2950M3	29.5	193.9	313.9	305	8.9	MT.3	●
TDD3000M3	30.0	194.0	314.0	305	9.0	MT.3	●
TDD3050M3	30.5	199.2	319.2	310	9.2	MT.3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD3100M3	31.0	199.3	319.3	310	9.3	MT.3	●
TDD3150M3	31.5	204.5	324.5	315	9.5	MT.3	●
TDD3200M3	32.0	204.6	324.6	315	9.6	MT.3	●
TDD3250M4	32.5	209.8	354.8	345	9.8	MT.4	●
TDD3300M4	33.0	209.9	354.9	345	9.9	MT.4	●
TDD3350M4	33.5	215.1	360.1	350	10.1	MT.4	●
TDD3400M4	34.0	215.2	360.2	350	10.2	MT.4	●
TDD3450M4	34.5	215.4	360.4	350	10.4	MT.4	●
TDD3500M4	35.0	215.5	360.5	350	10.5	MT.4	●
TDD3550M4	35.5	220.7	365.7	355	10.7	MT.4	●
TDD3600M4	36.0	220.8	365.8	355	10.8	MT.4	●
TDD3650M4	36.5	221.0	366.0	355	11.0	MT.4	●
TDD3700M4	37.0	221.1	366.1	355	11.1	MT.4	●
TDD3750M4	37.5	226.3	371.3	360	11.3	MT.4	●
TDD3800M4	38.0	226.4	371.4	360	11.4	MT.4	●
TDD3850M4	38.5	226.6	371.6	360	11.6	MT.4	●
TDD3900M4	39.0	226.7	371.7	360	11.7	MT.4	●
TDD3950M4	39.5	231.9	376.9	365	11.9	MT.4	●
TDD4000M4	40.0	232.0	377.0	365	12.0	MT.4	●
TDD4050M4	40.5	232.2	377.2	365	12.2	MT.4	●
TDD4100M4	41.0	232.3	377.3	365	12.3	MT.4	●
TDD4150M4	41.5	237.5	382.5	370	12.5	MT.4	●
TDD4200M4	42.0	237.6	382.6	370	12.6	MT.4	●
TDD4250M4	42.5	237.8	382.8	370	12.8	MT.4	●
TDD4300M4	43.0	237.9	382.9	370	12.9	MT.4	●
TDD4350M4	43.5	243.1	388.1	375	13.1	MT.4	●
TDD4400M4	44.0	243.2	388.2	375	13.2	MT.4	●
TDD4450M4	44.5	243.4	388.4	375	13.4	MT.4	●
TDD4500M4	45.0	243.5	388.5	375	13.5	MT.4	●
TDD4550M4	45.5	248.7	393.7	380	13.7	MT.4	●
TDD4600M4	46.0	248.8	393.8	380	13.8	MT.4	●
TDD4650M4	46.5	249.0	394.0	380	14.0	MT.4	●
TDD4700M4	47.0	249.1	394.1	380	14.1	MT.4	●
TDD4750M4	47.5	254.3	399.3	385	14.3	MT.4	●
TDD4800M4	48.0	254.4	399.4	385	14.4	MT.4	●
TDD4850M4	48.5	254.6	399.6	385	14.6	MT.4	●
TDD4900M4	49.0	254.7	399.7	385	14.7	MT.4	●
TDD4950M4	49.5	259.9	404.9	390	14.9	MT.4	●
TDD5000M4	50.0	260.0	405.0	390	15.0	MT.4	●
TDD5100M5	51.0	260.3	440.3	425	15.3	MT.5	●
TDD5200M5	52.0	265.6	445.6	430	15.6	MT.5	●
TDD5300M5	53.0	265.9	445.9	430	15.9	MT.5	●
TDD5400M5	54.0	271.2	451.2	435	16.2	MT.5	●
TDD5500M5	55.0	271.5	451.5	435	16.5	MT.5	●
TDD5600M5	56.0	276.8	456.8	440	16.8	MT.5	●
TDD5700M5	57.0	277.1	457.1	440	17.1	MT.5	●
TDD5800M5	58.0	282.4	462.4	445	17.4	MT.5	●
TDD5900M5	59.0	282.7	462.7	445	17.7	MT.5	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD6000M5	60.0	288.0	468.0	450	18.0	MT.5	●
TDD6100M5	61.0	288.3	468.3	450	18.3	MT.5	●
TDD6200M5	62.0	293.6	473.6	455	18.6	MT.5	●
TDD6300M5	63.0	293.9	473.9	455	18.9	MT.5	●
TDD6400M5	64.0	299.2	479.2	460	19.2	MT.5	●
TDD6500M5	65.0	299.5	479.5	460	19.5	MT.5	●
TDD6600M5	66.0	304.8	484.8	465	19.8	MT.5	●
TDD6700M5	67.0	305.1	485.1	465	20.1	MT.5	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TDD6800M5	68.0	310.4	490.4	470	20.4	MT.5	●
TDD6900M5	69.0	310.7	490.7	470	20.7	MT.5	●
TDD7000M5	70.0	316.0	496.0	475	21.0	MT.5	●
TDD7100M5	71.0	316.3	496.3	475	21.3	MT.5	●
TDD7200M5	72.0	321.6	501.6	480	21.6	MT.5	●
TDD7300M5	73.0	321.9	501.9	480	21.9	MT.5	●
TDD7400M5	74.0	327.2	507.2	485	22.2	MT.5	●
TDD7500M5	75.0	327.5	507.5	485	22.5	MT.5	●

锥柄钻头

KTD

钴高速钢锥柄钻头



DC<10, DC>35 10≤DC≤35 16<DC≤35 DC>35

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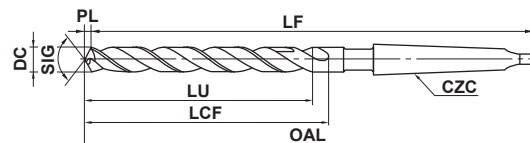
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※LU = LCF-2DC



5≤DC≤6	6<DC≤10	10<DC≤18	18<DC≤30	30<DC≤50
0 -0.018	0 -0.022	0 -0.027	0 -0.033	0 -0.039

● 最适宜钻削难加工材料。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
KTDD0500M1	5.0	61.5	141.5	140	1.5	MT.1	●
KTDD0550M1	5.5	66.7	146.7	145	1.7	MT.1	●
KTDD0600M1	6.0	69.8	149.8	148	1.8	MT.1	●
KTDD0650M1	6.5	74.0	154.0	152	2.0	MT.1	●
KTDD0700M1	7.0	77.1	157.1	155	2.1	MT.1	●
KTDD0750M1	7.5	80.3	160.3	158	2.3	MT.1	●
KTDD0800M1	8.0	84.4	164.4	162	2.4	MT.1	●
KTDD0850M1	8.5	87.6	170.6	168	2.6	MT.1	●
KTDD0900M1	9.0	90.7	174.7	172	2.7	MT.1	●
KTDD0950M1	9.5	94.9	177.9	175	2.9	MT.1	●
KTDD1000M1	10.0	97.4	180.4	178	2.4	MT.1	●
KTDD1010M1	10.1	100.5	184.5	182	2.5	MT.1	●
KTDD1020M1	10.2	100.5	184.5	182	2.5	MT.1	●
KTDD1030M1	10.3	100.5	184.5	182	2.5	MT.1	●
KTDD1040M1	10.4	100.5	184.5	182	2.5	MT.1	●
KTDD1050M1	10.5	100.6	184.6	182	2.6	MT.1	●
KTDD1060M1	10.6	104.6	187.6	185	2.6	MT.1	●
KTDD1070M1	10.7	104.6	187.6	185	2.6	MT.1	●
KTDD1080M1	10.8	104.6	187.6	185	2.6	MT.1	●
KTDD1090M1	10.9	104.7	187.7	185	2.7	MT.1	●
KTDD1100M1	11.0	104.7	187.7	185	2.7	MT.1	●
KTDD1150M1	11.5	107.8	190.8	188	2.8	MT.1	●
KTDD1200M1	12.0	110.9	194.9	192	2.9	MT.1	●
KTDD1210M2	12.1	115.0	215.0	212	3.0	MT.2	●
KTDD1220M2	12.2	115.0	215.0	212	3.0	MT.2	●
KTDD1250M2	12.5	115.0	215.0	212	3.0	MT.2	●
KTDD1300M2	13.0	118.2	218.2	215	3.2	MT.2	●
KTDD1310M2	13.1	121.2	221.2	218	3.2	MT.2	●
KTDD1320M2	13.2	121.2	221.2	218	3.2	MT.2	●
KTDD1350M2	13.5	121.3	221.3	218	3.3	MT.2	●
KTDD1370M2	13.7	125.3	225.3	222	3.3	MT.2	●
KTDD1380M2	13.8	125.4	225.4	222	3.4	MT.2	●
KTDD1390M2	13.9	125.4	225.4	222	3.4	MT.2	●
KTDD1400M2	14.0	125.4	225.4	222	3.4	MT.2	●
KTDD1410M2	14.1	125.4	225.4	222	3.4	MT.2	●
KTDD1420M2	14.2	125.5	225.5	222	3.5	MT.2	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
KTDD1430M2	14.3	125.5	225.5	222	3.5	MT.2	●
KTDD1440M2	14.4	125.5	225.5	222	3.5	MT.2	●
KTDD1450M2	14.5	125.5	225.5	222	3.5	MT.2	●
KTDD1470M2	14.7	128.6	228.6	225	3.6	MT.2	●
KTDD1500M2	15.0	128.7	228.7	225	3.7	MT.2	●
KTDD1550M2	15.5	131.8	231.8	228	3.8	MT.2	●
KTDD1600M2	16.0	133.9	233.9	230	3.9	MT.2	●
KTDD1620M2	16.2	136.0	236.0	232	4.0	MT.2	●
KTDD1650M2	16.5	136.0	236.0	232	4.0	MT.2	●
KTDD1670M2	16.7	139.1	239.1	235	4.1	MT.2	●
KTDD1700M2	17.0	139.1	239.1	235	4.1	MT.2	●
KTDD1750M2	17.5	144.3	244.3	240	4.3	MT.2	●
KTDD1770M2	17.7	144.3	244.3	240	4.3	MT.2	●
KTDD1800M2	18.0	144.4	244.4	240	4.4	MT.2	●
KTDD1850M2	18.5	149.5	249.5	245	4.5	MT.2	●
KTDD1900M2	19.0	149.6	249.6	245	4.6	MT.2	●
KTDD1950M2	19.5	154.8	254.8	250	4.8	MT.2	●
KTDD2000M2	20.0	154.9	254.9	250	4.9	MT.2	●
KTDD2050M3	20.5	160.0	280.0	275	5.0	MT.3	●
KTDD2100M3	21.0	160.1	280.1	275	5.1	MT.3	●
KTDD2150M3	21.5	165.2	285.2	280	5.2	MT.3	●
KTDD2200M3	22.0	165.4	285.4	280	5.4	MT.3	●
KTDD2250M3	22.5	170.5	290.5	285	5.5	MT.3	●
KTDD2300M3	23.0	170.6	290.6	285	5.6	MT.3	●
KTDD2350M3	23.5	170.7	290.7	285	5.7	MT.3	●
KTDD2400M3	24.0	170.9	290.9	285	5.9	MT.3	●
KTDD2450M3	24.5	171.0	291.0	285	6.0	MT.3	●
KTDD2500M3	25.0	171.1	291.1	285	6.1	MT.3	●
KTDD2550M3	25.5	171.2	291.2	285	6.2	MT.3	●
KTDD2600M3	26.0	171.3	291.3	285	6.3	MT.3	●
KTDD2650M3	26.5	176.5	296.5	290	6.5	MT.3	●
KTDD2700M3	27.0	176.6	296.6	290	6.6	MT.3	●
KTDD2750M4	27.5	181.7	326.7	320	6.7	MT.4	●
KTDD2800M4	28.0	181.8	326.8	320	6.8	MT.4	●
KTDD2850M4	28.5	187.0	332.0	325	7.0	MT.4	●
KTDD2900M4	29.0	187.1	332.1	325	7.1	MT.4	●

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
KTDD2950M4	29.5	192.2	337.2	330	7.2	MT.4	●
KTDD3000M4	30.0	192.3	337.3	330	7.3	MT.4	●
KTDD3050M4	30.5	197.4	342.4	335	7.4	MT.4	●
KTDD3100M4	31.0	197.6	342.6	335	7.6	MT.4	●
KTDD3150M4	31.5	202.7	347.7	340	7.7	MT.4	●
KTDD3200M4	32.0	202.8	347.8	340	7.8	MT.4	●
KTDD3300M4	33.0	208.0	353.0	345	8.0	MT.4	●
KTDD3400M4	34.0	213.3	358.3	350	8.3	MT.4	●
KTDD3500M4	35.0	213.5	358.5	350	8.5	MT.4	●
KTDD3600M4	36.0	220.8	365.8	355	10.8	MT.4	●
KTDD3700M4	37.0	221.1	366.1	355	11.1	MT.4	●
KTDD3800M4	38.0	226.4	371.4	360	11.4	MT.4	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
KTDD3900M4	39.0	226.7	371.7	360	11.7	MT.4	●
KTDD4000M4	40.0	232.0	377.0	365	12.0	MT.4	●
KTDD4100M4	41.0	232.3	377.3	365	12.3	MT.4	●
KTDD4200M4	42.0	237.6	382.6	370	12.6	MT.4	●
KTDD4300M4	43.0	237.9	382.9	370	12.9	MT.4	●
KTDD4400M4	44.0	243.2	388.2	375	13.2	MT.4	●
KTDD4500M4	45.0	243.5	388.5	375	13.5	MT.4	●
KTDD4600M4	46.0	248.8	393.8	380	13.8	MT.4	●
KTDD4700M4	47.0	249.1	394.1	380	14.1	MT.4	●
KTDD4800M4	48.0	254.4	399.4	385	14.4	MT.4	●
KTDD4900M4	49.0	254.7	399.7	385	14.7	MT.4	●
KTDD5000M4	50.0	260.0	405.0	390	15.0	MT.4	●

锥柄钻头

LTD

长锥柄钻头



DC>6

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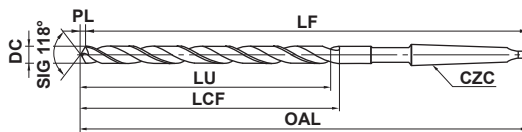
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※LU = LCF-2DC



DC=6	6<DC≤10	10<DC≤18	18<DC≤30	30<DC≤40
0 -0.018	0 -0.022	0 -0.027	0 -0.033	0 -0.039

● 广泛用于钻削深孔。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
LTDD0600A200M1	6.0	101.8	201.8	200	1.8	MT.1	●
LTDD0600A250M1	6.0	151.8	251.8	250	1.8	MT.1	●
LTDD0600A300M1	6.0	201.8	301.8	300	1.8	MT.1	●
LTDD0600A350M1	6.0	226.8	351.8	350	1.8	MT.1	●
LTDD0650A250M1	6.5	152.0	252.0	250	2.0	MT.1	●
LTDD0650A300M1	6.5	202.0	302.0	300	2.0	MT.1	●
LTDD0650A350M1	6.5	227.0	352.0	350	2.0	MT.1	●
LTDD0700A250M1	7.0	152.1	252.1	250	2.1	MT.1	●
LTDD0700A300M1	7.0	202.1	302.1	300	2.1	MT.1	●
LTDD0700A350M1	7.0	227.1	352.1	350	2.1	MT.1	●
LTDD0750A250M1	7.5	152.3	252.3	250	2.3	MT.1	●
LTDD0750A300M1	7.5	202.3	302.3	300	2.3	MT.1	●
LTDD0750A350M1	7.5	227.3	352.3	350	2.3	MT.1	●
LTDD0800A250M1	8.0	152.4	252.4	250	2.4	MT.1	●
LTDD0800A300M1	8.0	202.4	302.4	300	2.4	MT.1	●
LTDD0800A350M1	8.0	227.4	352.4	350	2.4	MT.1	●
LTDD0850A250M1	8.5	152.6	252.6	250	2.6	MT.1	●
LTDD0850A300M1	8.5	202.6	302.6	300	2.6	MT.1	●
LTDD0850A350M1	8.5	227.6	352.6	350	2.6	MT.1	●
LTDD0900A250M1	9.0	152.7	252.7	250	2.7	MT.1	●
LTDD0900A300M1	9.0	202.7	302.7	300	2.7	MT.1	●
LTDD0900A350M1	9.0	227.7	352.7	350	2.7	MT.1	●
LTDD0950A250M1	9.5	152.9	252.9	250	2.9	MT.1	●
LTDD0950A300M1	9.5	202.9	302.9	300	2.9	MT.1	●
LTDD0950A350M1	9.5	227.9	352.9	350	2.9	MT.1	●
LTDD0950A400M1	9.5	252.9	402.9	400	2.9	MT.1	●
LTDD1000A250M1	10.0	153.0	253.0	250	3.0	MT.1	●
LTDD1000A300M1	10.0	203.0	303.0	300	3.0	MT.1	●
LTDD1000A350M1	10.0	228.0	353.0	350	3.0	MT.1	●
LTDD1000A400M1	10.0	253.0	403.0	400	3.0	MT.1	●
LTDD1050A250M1	10.5	153.2	253.2	250	3.2	MT.1	●
LTDD1050A300M1	10.5	203.2	303.2	300	3.2	MT.1	●
LTDD1050A350M1	10.5	228.2	353.2	350	3.2	MT.1	●
LTDD1050A400M1	10.5	253.2	403.2	400	3.2	MT.1	●
LTDD1100A250M1	11.0	153.3	253.3	250	3.3	MT.1	●
LTDD1100A300M1	11.0	203.3	303.3	300	3.3	MT.1	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
LTDD1100A350M1	11.0	228.3	353.3	350	3.3	MT.1	●
LTDD1100A400M1	11.0	253.3	403.3	400	3.3	MT.1	●
LTDD1150A250M1	11.5	153.5	253.5	250	3.5	MT.1	●
LTDD1150A300M1	11.5	203.5	303.5	300	3.5	MT.1	●
LTDD1150A350M1	11.5	228.5	353.5	350	3.5	MT.1	●
LTDD1150A400M1	11.5	253.5	403.5	400	3.5	MT.1	●
LTDD1200A250M1	12.0	153.6	253.6	250	3.6	MT.1	●
LTDD1200A300M1	12.0	203.6	303.6	300	3.6	MT.1	●
LTDD1200A350M1	12.0	228.6	353.6	350	3.6	MT.1	●
LTDD1200A400M1	12.0	253.6	403.6	400	3.6	MT.1	●
LTDD1250A250M1	12.5	153.8	253.8	250	3.8	MT.1	●
LTDD1250A300M1	12.5	203.8	303.8	300	3.8	MT.1	●
LTDD1250A350M1	12.5	228.8	353.8	350	3.8	MT.1	●
LTDD1250A400M1	12.5	253.8	403.8	400	3.8	MT.1	●
LTDD1300A250M1	13.0	153.9	253.9	250	3.9	MT.1	●
LTDD1300A300M1	13.0	203.9	303.9	300	3.9	MT.1	●
LTDD1300A350M1	13.0	228.9	353.9	350	3.9	MT.1	●
LTDD1300A400M1	13.0	253.9	403.9	400	3.9	MT.1	●
LTDD1350A300M1	13.5	204.1	304.1	300	4.1	MT.1	●
LTDD1350A350M1	13.5	229.1	354.1	350	4.1	MT.1	●
LTDD1350A400M1	13.5	254.1	404.1	400	4.1	MT.1	●
LTDD1350A450M1	13.5	304.1	454.1	450	4.1	MT.1	●
LTDD1350A500M1	13.5	354.1	504.1	500	4.1	MT.1	●
LTDD1350A600M1	13.5	404.1	604.1	600	4.1	MT.1	●
LTDD1400A300M1	14.0	204.2	304.2	300	4.2	MT.1	●
LTDD1400A350M1	14.0	229.2	354.2	350	4.2	MT.1	●
LTDD1400A400M1	14.0	254.2	404.2	400	4.2	MT.1	●
LTDD1400A450M1	14.0	304.2	454.2	450	4.2	MT.1	●
LTDD1400A500M1	14.0	354.2	504.2	500	4.2	MT.1	●
LTDD1400A600M1	14.0	404.2	604.2	600	4.2	MT.1	●
LTDD1450A300M2	14.5	179.4	304.4	300	4.4	MT.2	●
LTDD1450A350M2	14.5	229.4	354.4	350	4.4	MT.2	●
LTDD1450A400M2	14.5	254.4	404.4	400	4.4	MT.2	●
LTDD1450A450M2	14.5	304.4	454.4	450	4.4	MT.2	●
LTDD1450A500M2	14.5	354.4	504.4	500	4.4	MT.2	●
LTDD1450A600M2	14.5	404.4	604.4	600	4.4	MT.2	●

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钻头

●：标准库存品

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
LTDD1500A300M2	15.0	179.5	304.5	300	4.5	MT.2	●
LTDD1500A350M2	15.0	229.5	354.5	350	4.5	MT.2	●
LTDD1500A400M2	15.0	254.5	404.5	400	4.5	MT.2	●
LTDD1500A450M2	15.0	304.5	454.5	450	4.5	MT.2	●
LTDD1500A500M2	15.0	354.5	504.5	500	4.5	MT.2	●
LTDD1500A600M2	15.0	404.5	604.5	600	4.5	MT.2	●
LTDD1550A300M2	15.5	179.7	304.7	300	4.7	MT.2	●
LTDD1550A350M2	15.5	229.7	354.7	350	4.7	MT.2	●
LTDD1550A400M2	15.5	254.7	404.7	400	4.7	MT.2	●
LTDD1550A450M2	15.5	304.7	454.7	450	4.7	MT.2	●
LTDD1550A500M2	15.5	354.7	504.7	500	4.7	MT.2	●
LTDD1550A600M2	15.5	404.7	604.7	600	4.7	MT.2	●
LTDD1600A300M2	16.0	179.8	304.8	300	4.8	MT.2	●
LTDD1600A350M2	16.0	229.8	354.8	350	4.8	MT.2	●
LTDD1600A400M2	16.0	254.8	404.8	400	4.8	MT.2	●
LTDD1600A450M2	16.0	304.8	454.8	450	4.8	MT.2	●
LTDD1600A500M2	16.0	354.8	504.8	500	4.8	MT.2	●
LTDD1600A600M2	16.0	404.8	604.8	600	4.8	MT.2	●
LTDD1650A300M2	16.5	180.0	305.0	300	5.0	MT.2	●
LTDD1650A350M2	16.5	230.0	355.0	350	5.0	MT.2	●
LTDD1650A400M2	16.5	255.0	405.0	400	5.0	MT.2	●
LTDD1650A450M2	16.5	305.0	455.0	450	5.0	MT.2	●
LTDD1650A500M2	16.5	355.0	505.0	500	5.0	MT.2	●
LTDD1650A600M2	16.5	405.0	605.0	600	5.0	MT.2	●
LTDD1700A300M2	17.0	180.1	305.1	300	5.1	MT.2	●
LTDD1700A350M2	17.0	230.1	355.1	350	5.1	MT.2	●
LTDD1700A400M2	17.0	255.1	405.1	400	5.1	MT.2	●
LTDD1700A450M2	17.0	305.1	455.1	450	5.1	MT.2	●
LTDD1700A500M2	17.0	355.1	505.1	500	5.1	MT.2	●
LTDD1700A600M2	17.0	405.1	605.1	600	5.1	MT.2	●
LTDD1750A300M2	17.5	180.3	305.3	300	5.3	MT.2	●
LTDD1750A350M2	17.5	230.3	355.3	350	5.3	MT.2	●
LTDD1750A400M2	17.5	255.3	405.3	400	5.3	MT.2	●
LTDD1750A450M2	17.5	305.3	455.3	450	5.3	MT.2	●
LTDD1750A500M2	17.5	355.3	505.3	500	5.3	MT.2	●
LTDD1750A600M2	17.5	405.3	605.3	600	5.3	MT.2	●
LTDD1800A300M2	18.0	180.4	305.4	300	5.4	MT.2	●
LTDD1800A350M2	18.0	230.4	355.4	350	5.4	MT.2	●
LTDD1800A400M2	18.0	255.4	405.4	400	5.4	MT.2	●
LTDD1800A450M2	18.0	305.4	455.4	450	5.4	MT.2	●
LTDD1800A500M2	18.0	355.4	505.4	500	5.4	MT.2	●
LTDD1800A600M2	18.0	405.4	605.4	600	5.4	MT.2	●
LTDD1900A300M2	19.0	180.7	305.7	300	5.7	MT.2	●
LTDD1900A350M2	19.0	230.7	355.7	350	5.7	MT.2	●
LTDD1900A400M2	19.0	255.7	405.7	400	5.7	MT.2	●
LTDD1900A450M2	19.0	305.7	455.7	450	5.7	MT.2	●
LTDD1900A500M2	19.0	355.7	505.7	500	5.7	MT.2	●
LTDD1900A600M2	19.0	405.7	605.7	600	5.7	MT.2	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
LTDD2000A300M2	20.0	181.0	306.0	300	6.0	MT.2	●
LTDD2000A350M2	20.0	231.0	356.0	350	6.0	MT.2	●
LTDD2000A400M2	20.0	256.0	406.0	400	6.0	MT.2	●
LTDD2000A450M2	20.0	306.0	456.0	450	6.0	MT.2	●
LTDD2000A500M2	20.0	356.0	506.0	500	6.0	MT.2	●
LTDD2000A600M2	20.0	406.0	606.0	600	6.0	MT.2	●
LTDD2100A350M2	21.0	231.3	356.3	350	6.3	MT.2	●
LTDD2100A400M2	21.0	256.3	406.3	400	6.3	MT.2	●
LTDD2100A450M2	21.0	306.3	456.3	450	6.3	MT.2	●
LTDD2100A500M2	21.0	356.3	506.3	500	6.3	MT.2	●
LTDD2100A600M2	21.0	406.3	606.3	600	6.3	MT.2	●
LTDD2200A350M2	22.0	231.6	356.6	350	6.6	MT.2	●
LTDD2200A400M2	22.0	256.6	406.6	400	6.6	MT.2	●
LTDD2200A450M2	22.0	306.6	456.6	450	6.6	MT.2	●
LTDD2200A500M2	22.0	356.6	506.6	500	6.6	MT.2	●
LTDD2200A600M2	22.0	406.6	606.6	600	6.6	MT.2	●
LTDD2300A350M2	23.0	231.9	356.9	350	6.9	MT.2	●
LTDD2300A400M2	23.0	256.9	406.9	400	6.9	MT.2	●
LTDD2300A450M2	23.0	306.9	456.9	450	6.9	MT.2	●
LTDD2300A500M2	23.0	356.9	506.9	500	6.9	MT.2	●
LTDD2300A600M2	23.0	406.9	606.9	600	6.9	MT.2	●
LTDD2400A350M3	24.0	207.2	357.2	350	7.2	MT.3	●
LTDD2400A400M3	24.0	257.2	407.2	400	7.2	MT.3	●
LTDD2400A450M3	24.0	307.2	457.2	450	7.2	MT.3	●
LTDD2400A500M3	24.0	357.2	507.2	500	7.2	MT.3	●
LTDD2400A600M3	24.0	407.2	607.2	600	7.2	MT.3	●
LTDD2500A350M3	25.0	207.5	357.5	350	7.5	MT.3	●
LTDD2500A400M3	25.0	257.5	407.5	400	7.5	MT.3	●
LTDD2500A450M3	25.0	307.5	457.5	450	7.5	MT.3	●
LTDD2500A500M3	25.0	357.5	507.5	500	7.5	MT.3	●
LTDD2500A600M3	25.0	407.5	607.5	600	7.5	MT.3	●
LTDD2600A400M3	26.0	257.8	407.8	400	7.8	MT.3	●
LTDD2600A450M3	26.0	307.8	457.8	450	7.8	MT.3	●
LTDD2600A500M3	26.0	357.8	507.8	500	7.8	MT.3	●
LTDD2600A600M3	26.0	407.8	607.8	600	7.8	MT.3	●
LTDD2700A400M3	27.0	258.1	408.1	400	8.1	MT.3	●
LTDD2700A450M3	27.0	308.1	458.1	450	8.1	MT.3	●
LTDD2700A500M3	27.0	358.1	508.1	500	8.1	MT.3	●
LTDD2700A600M3	27.0	408.1	608.1	600	8.1	MT.3	●
LTDD2800A400M3	28.0	258.4	408.4	400	8.4	MT.3	●
LTDD2800A450M3	28.0	308.4	458.4	450	8.4	MT.3	●
LTDD2800A500M3	28.0	358.4	508.4	500	8.4	MT.3	●
LTDD2800A600M3	28.0	408.4	608.4	600	8.4	MT.3	●
LTDD2900A400M3	29.0	258.7	408.7	400	8.7	MT.3	●
LTDD2900A450M3	29.0	308.7	458.7	450	8.7	MT.3	●
LTDD2900A500M3	29.0	358.7	508.7	500	8.7	MT.3	●
LTDD2900A600M3	29.0	408.7	608.7	600	8.7	MT.3	●
LTDD3000A400M3	30.0	259.0	409.0	400	9.0	MT.3	●

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钻头

锥柄钻头

LTD
长锥柄钻头

高速钢

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
LTDD3000A450M3	30.0	309.0	459.0	450	9.0	MT.3	●
LTDD3000A500M3	30.0	359.0	509.0	500	9.0	MT.3	●
LTDD3000A600M3	30.0	409.0	609.0	600	9.0	MT.3	●
LTDD3100A450M3	31.0	309.3	459.3	450	9.3	MT.3	●
LTDD3100A500M3	31.0	359.3	509.3	500	9.3	MT.3	●
LTDD3100A600M3	31.0	409.3	609.3	600	9.3	MT.3	●
LTDD3200A450M3	32.0	309.6	459.6	450	9.6	MT.3	●
LTDD3200A500M3	32.0	359.6	509.6	500	9.6	MT.3	●
LTDD3200A600M3	32.0	409.6	609.6	600	9.6	MT.3	●
LTDD3300A500M4	33.0	359.9	509.9	500	9.9	MT.4	●
LTDD3300A600M4	33.0	409.9	609.9	600	9.9	MT.4	●
LTDD3400A500M4	34.0	360.2	510.2	500	10.2	MT.4	●
LTDD3400A600M4	34.0	410.2	610.2	600	10.2	MT.4	●
LTDD3500A500M4	35.0	360.5	510.5	500	10.5	MT.4	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
LTDD3500A600M4	35.0	410.5	610.5	600	10.5	MT.4	●
LTDD3600A500M4	36.0	360.8	510.8	500	10.8	MT.4	●
LTDD3600A600M4	36.0	410.8	610.8	600	10.8	MT.4	●
LTDD3700A500M4	37.0	361.1	511.1	500	11.1	MT.4	●
LTDD3700A600M4	37.0	411.1	611.1	600	11.1	MT.4	●
LTDD3800A500M4	38.0	361.4	511.4	500	11.4	MT.4	●
LTDD3800A600M4	38.0	411.4	611.4	600	11.4	MT.4	●
LTDD3900A500M4	39.0	361.7	511.7	500	11.7	MT.4	●
LTDD3900A600M4	39.0	411.7	611.7	600	11.7	MT.4	●
LTDD4000A500M4	40.0	362.0	512.0	500	12.0	MT.4	●
LTDD4000A600M4	40.0	412.0	612.0	600	12.0	MT.4	●

P

钻头

●：标准库存品

推荐切削条件

工件材料	结构钢 SS 碳钢S-C (-HRC25)		合金钢SCM 工具钢SK (-HRC35)		合金钢SCM 模具钢SKD (-HRC40)		铸铁 FC	
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
6.0	1100	0.18	900	0.15	600	0.13	1100	0.18
8.0	800	0.20	670	0.18	450	0.15	900	0.20
10.0	650	0.22	540	0.20	350	0.18	700	0.22
12.0	520	0.24	450	0.22	300	0.20	600	0.24
15.0	420	0.28	360	0.24	240	0.22	470	0.28
20.0	320	0.33	270	0.26	180	0.24	350	0.33
25.0	250	0.36	210	0.28	145	0.26	280	0.36
30.0	210	0.40	180	0.30	120	0.28	230	0.40
40.0	160	0.42	130	0.32	90	0.30	180	0.42

工件材料	不锈钢				铜合金、黄铜		铝合金	
	马氏体类SUS420 铁素体类SUS430		奥氏体类SUS304 析出硬化类SUS630					
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
6.0	800	0.18	530	0.10	1100	0.18	2100	0.23
8.0	600	0.20	400	0.13	800	0.20	1600	0.28
10.0	480	0.22	310	0.15	650	0.22	1200	0.33
12.0	400	0.24	250	0.17	520	0.24	1000	0.38
15.0	320	0.26	170	0.20	420	0.26	850	0.42
20.0	240	0.28	130	0.23	320	0.28	630	0.45
25.0	190	0.32	100	0.24	250	0.32	500	0.48
30.0	160	0.35	85	0.25	210	0.35	400	0.50
40.0	120	0.38	65	0.28	160	0.38	300	0.52

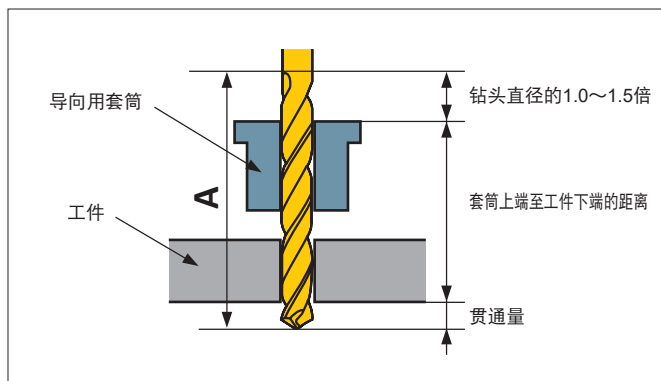
注1) 若钻削深孔,请参考切削条件减少率,降低各切削条件。

注2) 本表将钻削时使用水溶性切削液的切削条件作为标准条件,根据钻削的实际情况,请修正或调整切削条件。

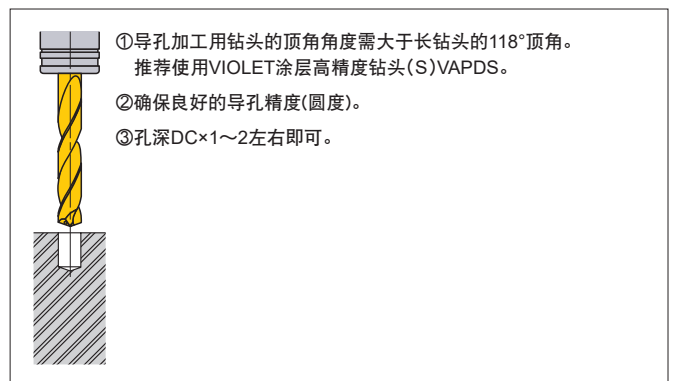
注3) 高速长钻头与超硬长钻头相比刚性低,为了预防因钻头的偏转、弯曲引起故障,请使用用于导向的衬套及导孔(大约1~2DC)。

注4) 在使用用于导向的衬套时,请为了使槽长>A的尺寸(下图)选定钻头。

导向用套筒



导孔加工



锥柄钻头

GWTS

G型非步进锥柄钻头



P

钢

M

不锈钢

K

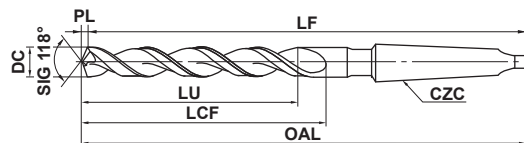
铸铁

N

有色金属

S

H



※LU = LCF-2DC



DC=6	6<DC≤10	10<DC≤18	18<DC≤30	30<DC≤32
0 -0.018	0 -0.022	0 -0.027	0 -0.033	0 -0.039

- 最适合于钻削深孔，可进行非步进进给钻削深孔。也可有效地钻削浅孔。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
GWTS0600M1	6.0	69.8	149.8	148	1.8	MT.1	●
GWTS0620M1	6.2	73.9	153.9	152	1.9	MT.1	●
GWTS0650M1	6.5	74.0	154.0	152	2.0	MT.1	●
GWTS0680M1	6.8	77.0	157.0	155	2.0	MT.1	●
GWTS0690M1	6.9	77.1	157.1	155	2.1	MT.1	●
GWTS0700M1	7.0	77.1	157.1	155	2.1	MT.1	●
GWTS0720M1	7.2	80.2	160.2	158	2.2	MT.1	●
GWTS0750M1	7.5	80.3	160.3	158	2.3	MT.1	●
GWTS0780M1	7.8	84.3	164.3	162	2.3	MT.1	●
GWTS0800M1	8.0	84.4	164.4	162	2.4	MT.1	●
GWTS0820M1	8.2	87.5	170.5	168	2.5	MT.1	●
GWTS0850M1	8.5	87.6	170.6	168	2.6	MT.1	●
GWTS0880M1	8.8	90.6	174.6	172	2.6	MT.1	●
GWTS0900M1	9.0	90.7	174.7	172	2.7	MT.1	●
GWTS0920M1	9.2	94.8	177.8	175	2.8	MT.1	●
GWTS0950M1	9.5	94.9	177.9	175	2.9	MT.1	●
GWTS0980M1	9.8	97.9	180.9	178	2.9	MT.1	●
GWTS1000M1	10.0	98.0	181.0	178	3.0	MT.1	●
GWTS1020M1	10.2	101.1	185.1	182	3.1	MT.1	●
GWTS1030M1	10.3	101.1	185.1	182	3.1	MT.1	●
GWTS1050M1	10.5	101.2	185.2	182	3.2	MT.1	●
GWTS1100M1	11.0	105.3	188.3	185	3.3	MT.1	●
GWTS1150M1	11.5	108.5	191.5	188	3.5	MT.1	●
GWTS1200M1	12.0	111.6	195.6	192	3.6	MT.1	●
GWTS1220M2	12.2	115.7	215.7	212	3.7	MT.2	●
GWTS1230M2	12.3	115.7	215.7	212	3.7	MT.2	●
GWTS1250M2	12.5	115.8	215.8	212	3.8	MT.2	●
GWTS1300M2	13.0	118.9	218.9	215	3.9	MT.2	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
GWTS1350M2	13.5	122.1	222.1	218	4.1	MT.2	●
GWTS1400M2	14.0	126.2	226.2	222	4.2	MT.2	●
GWTS1410M2	14.1	126.2	226.2	222	4.2	MT.2	●
GWTS1420M2	14.2	126.3	226.3	222	4.3	MT.2	●
GWTS1450M2	14.5	126.4	226.4	222	4.4	MT.2	●
GWTS1500M2	15.0	129.5	229.5	225	4.5	MT.2	●
GWTS1550M2	15.5	132.7	232.7	228	4.7	MT.2	●
GWTS1600M2	16.0	134.8	234.8	230	4.8	MT.2	●
GWTS1650M2	16.5	137.0	237.0	232	5.0	MT.2	●
GWTS1700M2	17.0	140.1	240.1	235	5.1	MT.2	●
GWTS1750M2	17.5	145.3	245.3	240	5.3	MT.2	●
GWTS1800M2	18.0	145.4	245.4	240	5.4	MT.2	●
GWTS1850M2	18.5	150.6	250.6	245	5.6	MT.2	●
GWTS1900M2	19.0	150.7	250.7	245	5.7	MT.2	●
GWTS1950M2	19.5	155.9	255.9	250	5.9	MT.2	●
GWTS2000M2	20.0	156.0	256.0	250	6.0	MT.2	●
GWTS2100M3	21.0	161.3	281.3	275	6.3	MT.3	●
GWTS2200M3	22.0	166.6	286.6	280	6.6	MT.3	●
GWTS2300M3	23.0	171.9	291.9	285	6.9	MT.3	●
GWTS2400M3	24.0	172.2	292.2	285	7.2	MT.3	●
GWTS2500M3	25.0	172.5	292.5	285	7.5	MT.3	●
GWTS2600M3	26.0	172.8	292.8	285	7.8	MT.3	●
GWTS2700M3	27.0	178.1	298.1	290	8.1	MT.3	●
GWTS2800M4	28.0	183.4	328.4	320	8.4	MT.4	●
GWTS2900M4	29.0	188.7	333.7	325	8.7	MT.4	●
GWTS3000M4	30.0	194.0	339.0	330	9.0	MT.4	●
GWTS3100M4	31.0	199.3	344.3	335	9.3	MT.4	●
GWTS3200M4	32.0	204.6	349.6	340	9.6	MT.4	●

P

钻头

●：标准库存品



P

M

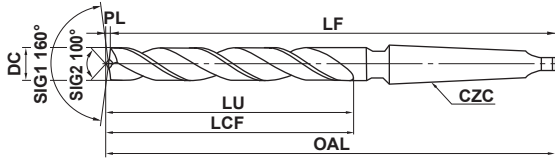
K

N

S

H

钢



※ $LU = LCF - 2DC$



$17 \leq DC \leq 18$	$18 < DC \leq 30$	$30 < DC \leq 32$
0	0	0
-0.027	-0.033	-0.039

● 蜡烛形切削刃，可高效钻削工字钢和扁钢且毛边少。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
GTTDD1700M3	17.0	135	257.9	255	2.9	MT.3	●
GTTDD1750M3	17.5	140	263.0	260	3.0	MT.3	●
GTTDD1800M3	18.0	140	263.0	260	3.0	MT.3	●
GTTDD1900M3	19.0	145	268.2	265	3.2	MT.3	●
GTTDD2000M3	20.0	150	273.3	270	3.3	MT.3	●
GTTDD2150M3	21.5	160	283.6	280	3.6	MT.3	●
GTTDD2200M3	22.0	160	283.7	280	3.7	MT.3	●
GTTDD2250M3	22.5	165	288.8	285	3.8	MT.3	●
GTTDD2300M3	23.0	165	288.8	285	3.8	MT.3	●
GTTDD2350M3	23.5	165	289.0	285	4.0	MT.3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
GTTDD2400M3	24.0	165	289.0	285	4.0	MT.3	●
GTTDD2450M3	24.5	165	289.1	285	4.1	MT.3	●
GTTDD2500M3	25.0	165	289.1	285	4.1	MT.3	●
GTTDD2600M3	26.0	165	289.3	285	4.3	MT.3	●
GTTDD2650M3	26.5	170	294.4	290	4.4	MT.3	●
GTTDD2800M4	28.0	175	324.5	320	4.5	MT.4	●
GTTDD3200M4	32.0	195	345.0	340	5.0	MT.4	●

P

钻头

锥柄钻头

TTD

钢筋用锥柄钻头



P

M

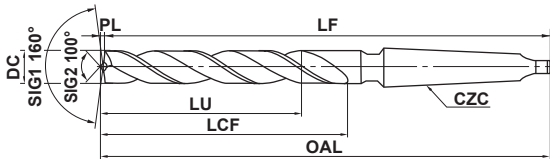
K

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S

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钢



※LU = LCF-2DC



$17 \leq DC \leq 18$	$18 < DC \leq 30$	$30 < DC \leq 32$
0	0	0
-0.027	-0.033	-0.039

● 蜡烛形切削刃,可高效钻削工字钢和扁钢且毛边少。

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TTDD1700M3	17.0	135	257.9	255	2.9	MT.3	●
TTDD1750M3	17.5	140	263.0	260	3.0	MT.3	●
TTDD1800M3	18.0	140	263.0	260	3.0	MT.3	●
TTDD1900M3	19.0	145	268.2	265	3.2	MT.3	●
TTDD2000M3	20.0	150	273.3	270	3.3	MT.3	●
TTDD2150M3	21.5	160	283.6	280	3.6	MT.3	●
TTDD2200M3	22.0	160	283.7	280	3.7	MT.3	●
TTDD2250M3	22.5	165	288.8	285	3.8	MT.3	●
TTDD2300M3	23.0	165	288.8	285	3.8	MT.3	●
TTDD2350M3	23.5	165	289.0	285	4.0	MT.3	●

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	CZC	
TTDD2400M3	24.0	165	289.0	285	4.0	MT.3	●
TTDD2450M3	24.5	165	289.1	285	4.1	MT.3	●
TTDD2500M3	25.0	165	289.1	285	4.1	MT.3	●
TTDD2600M3	26.0	165	289.3	285	4.3	MT.3	●
TTDD2650M3	26.5	170	294.4	290	4.4	MT.3	●
TTDD2800M4	28.0	175	324.5	320	4.5	MT.4	●
TTDD3200M4	32.0	195	345.0	340	5.0	MT.4	●

P

钻头

●：标准库存品

切削条件 > P209
技术资料 > R001

P

钢

M

K

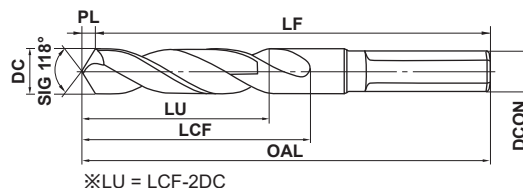
铸铁

N

有色金属

S

H


 $7 \leq DC \leq 10$ $10 < DC \leq 18$ $18 < DC \leq 26$
 0
 -0.022 0
 -0.027 0
 -0.033


※LU = LCF - 2DC

●刀柄直径被统一为3种类型,最适合电钻操作。

6.5型

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
3KD6D0700	7.0	37.1	77.1	75	2.1	6.5	●
3KD6D0750	7.5	37.3	77.3	75	2.3	6.5	●
3KD6D0800	8.0	37.4	77.4	75	2.4	6.5	●
3KD6D0850	8.5	37.6	77.6	75	2.6	6.5	●
3KD6D0900	9.0	37.7	77.7	75	2.7	6.5	●
3KD6D0950	9.5	37.9	77.9	75	2.9	6.5	●
3KD6D1000	10.0	53.0	93.0	90	3.0	6.5	●
3KD6D1050	10.5	53.2	93.2	90	3.2	6.5	●
3KD6D1100	11.0	53.3	93.3	90	3.3	6.5	●
3KD6D1150	11.5	53.5	93.5	90	3.5	6.5	●
3KD6D1200	12.0	53.6	93.6	90	3.6	6.5	●
3KD6D1250	12.5	53.8	93.8	90	3.8	6.5	●
3KD6D1300	13.0	53.9	93.9	90	3.9	6.5	●

10型

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
3KD10D1000	10.0	53.0	93.0	90	3.0	10	●
3KD10D1050	10.5	53.2	93.2	90	3.2	10	●
3KD10D1100	11.0	53.3	93.3	90	3.3	10	●
3KD10D1150	11.5	53.5	93.5	90	3.5	10	●
3KD10D1200	12.0	53.6	93.6	90	3.6	10	●
3KD10D1250	12.5	53.8	93.8	90	3.8	10	●
3KD10D1300	13.0	53.9	93.9	90	3.9	10	●
3KD10D1350	13.5	89.1	144.1	140	4.1	10	●
3KD10D1400	14.0	89.2	144.2	140	4.2	10	●
3KD10D1450	14.5	89.4	144.4	140	4.4	10	●
3KD10D1500	15.0	89.5	144.5	140	4.5	10	●
3KD10D1550	15.5	89.7	144.7	140	4.7	10	●
3KD10D1600	16.0	89.8	144.8	140	4.8	10	●

13型

型号	尺寸 (mm)						库存
	DC	LCF	OAL	LF	PL	DCON	
3KD13D1350	13.5	89.1	144.1	140	4.1	13	●
3KD13D1400	14.0	89.2	144.2	140	4.2	13	●
3KD13D1450	14.5	89.4	144.4	140	4.4	13	●
3KD13D1500	15.0	89.5	144.5	140	4.5	13	●
3KD13D1550	15.5	89.7	144.7	140	4.7	13	●
3KD13D1600	16.0	89.8	144.8	140	4.8	13	●
3KD13D1650	16.5	90.0	145.0	140	5.0	13	●
3KD13D1700	17.0	90.1	145.1	140	5.1	13	●
3KD13D1750	17.5	90.3	145.3	140	5.3	13	●
3KD13D1800	18.0	90.4	145.4	140	5.4	13	●
3KD13D1850	18.5	90.6	145.6	140	5.6	13	●
3KD13D1900	19.0	90.7	145.7	140	5.7	13	●
3KD13D1950	19.5	90.9	145.9	140	5.9	13	●
3KD13D2000	20.0	91.0	146.0	140	6.0	13	●
3KD13D2050	20.5	91.2	146.2	140	6.2	13	●
3KD13D2100	21.0	91.3	146.3	140	6.3	13	●
3KD13D2150	21.5	91.5	146.5	140	6.5	13	●
3KD13D2200	22.0	91.6	146.6	140	6.6	13	●
3KD13D2250	22.5	91.8	146.8	140	6.8	13	●
3KD13D2300	23.0	91.9	146.9	140	6.9	13	●
3KD13D2350	23.5	92.1	147.1	140	7.1	13	●
3KD13D2400	24.0	92.2	147.2	140	7.2	13	●
3KD13D2450	24.5	92.4	147.4	140	7.4	13	●
3KD13D2500	25.0	92.5	147.5	140	7.5	13	●
3KD13D2550	25.5	92.7	147.7	140	7.7	13	●
3KD13D2600	26.0	92.8	147.8	140	7.8	13	●

P

钻头

GSD GWSS GTD GWTS GTTD

TiN涂层钻头

推荐切削条件

工件材料	结构钢 SS 碳钢S-C (－HRC25)		合金钢SCM 工具钢SK (－HRC35)		合金钢SCM 模具钢SKD (－HRC40)		铸铁 FC	
	直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)
0.5	8000	0.01	7000	0.008	6000	0.005	8000	0.01
1.0	6000	0.02	5500	0.01	4500	0.008	6000	0.02
2.0	4700	0.05	3600	0.03	2400	0.02	4700	0.05
3.0	3200	0.10	2400	0.08	1800	0.05	3500	0.10
6.0	1600	0.18	1200	0.15	900	0.13	1750	0.18
8.0	1200	0.20	900	0.18	680	0.15	1300	0.20
10.0	960	0.22	720	0.20	550	0.18	1100	0.22
12.0	800	0.24	600	0.22	450	0.20	880	0.24
15.0	630	0.28	480	0.24	350	0.22	700	0.28
20.0	470	0.33	360	0.26	260	0.24	530	0.33
25.0	380	0.36	290	0.28	210	0.26	420	0.36
30.0	310	0.40	240	0.30	180	0.28	330	0.40

工件材料	不锈钢				铜合金、黄铜		铝合金	
	马氏体类SUS420 铁素体类SUS430		奥氏体类SUS304 析出硬化类SUS630					
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
0.5	8000	0.01	6000	0.01	8000	0.01	10000	0.02
1.0	5000	0.02	4000	0.02	6000	0.02	7000	0.04
2.0	2500	0.05	2300	0.04	4700	0.05	6000	0.08
3.0	1900	0.10	1500	0.07	3200	0.10	5500	0.13
6.0	950	0.18	750	0.10	1600	0.18	3100	0.23
8.0	700	0.20	530	0.13	1200	0.20	2300	0.28
10.0	560	0.22	420	0.15	960	0.22	1900	0.33
12.0	460	0.24	340	0.17	800	0.24	1600	0.38
15.0	360	0.26	270	0.20	630	0.26	1300	0.42
20.0	270	0.28	200	0.23	470	0.28	950	0.45
25.0	210	0.32	160	0.24	380	0.32	750	0.48
30.0	180	0.35	135	0.25	310	0.35	630	0.50

注1) 若钻削深孔,请参考切削条件减少率,降低各切削条件。
注2) 本表将钻削时使用水溶性切削液的切削条件作为标准条件,根据钻削的实际情况,请修正或调整切削条件。

P

钻头

孔加工的切削条件减少率

钻削孔深	切削速度减少率	进给量减少率	钻削孔深	切削速度减少率	进给量减少率
4DC	10%	10%	8DC	30%	20%
5DC	10%	15%	10DC	30%	25%
6DC	20%	20%	15DC	40%	30%
7DC	20%	20%	20DC	40%	45%

DC: 钻头直径

SD KSD TD KTD TTD

高速钢

标准钻头

推荐切削条件

工件材料	结构钢 SS 碳钢S-C (－HRC25)		合金钢SCM 工具钢SK (－HRC35)		合金钢SCM 模具钢SKD (－HRC40)		铸铁 FC	
	直径 DC (mm)	转速 (min ^{－1})	进给量 (mm/rev)	转速 (min ^{－1})	进给量 (mm/rev)	转速 (min ^{－1})	进给量 (mm/rev)	转速 (min ^{－1})
0.5	6000	0.01	5000	0.008	4000	0.005	6000	0.01
1.0	5000	0.02	4000	0.01	2800	0.008	5000	0.02
2.0	3000	0.05	2500	0.03	1800	0.02	3000	0.05
3.0	2100	0.10	1800	0.08	1200	0.05	2300	0.10
6.0	1100	0.18	900	0.15	600	0.13	1100	0.18
8.0	800	0.20	670	0.18	450	0.15	900	0.20
10.0	650	0.22	540	0.20	350	0.18	700	0.22
12.0	520	0.24	450	0.22	300	0.20	600	0.24
15.0	420	0.28	360	0.24	240	0.22	470	0.28
20.0	320	0.33	270	0.26	180	0.24	350	0.33
25.0	250	0.36	210	0.28	145	0.26	280	0.36
30.0	210	0.40	180	0.30	120	0.28	230	0.40
40.0	160	0.42	130	0.32	90	0.30	180	0.42

工件材料	不锈钢				铜合金、黄铜		铝合金	
	马氏体类SUS420 铁素体类SUS430		奥氏体类SUS304 析出硬化类SUS630					
直径 DC (mm)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)	转速 (min ⁻¹)	进给量 (mm/rev)
0.5	5000	0.01	4000	0.01	6000	0.01	10000	0.02
1.0	4000	0.02	3000	0.02	5000	0.02	7000	0.04
2.0	2200	0.05	1500	0.04	3000	0.05	5000	0.08
3.0	1600	0.10	1000	0.07	2100	0.10	4200	0.13
6.0	800	0.18	530	0.10	1100	0.18	2100	0.23
8.0	600	0.20	400	0.13	800	0.20	1600	0.28
10.0	480	0.22	310	0.15	650	0.22	1200	0.33
12.0	400	0.24	250	0.17	520	0.24	1000	0.38
15.0	320	0.26	170	0.20	420	0.26	850	0.42
20.0	240	0.28	130	0.23	320	0.28	630	0.45
25.0	190	0.32	100	0.24	250	0.32	500	0.48
30.0	160	0.35	85	0.25	210	0.35	400	0.50
40.0	120	0.38	65	0.28	160	0.38	300	0.52

注1) 若钻削深孔,请参考切削条件减少率,降低各切削条件。

注2) 本表将钻削时使用水溶性切削液的切削条件作为标准条件,根据钻削的实际情况,请修正或调整切削条件。

孔加工的切削条件减少率

钻削孔深	切削速度减少率	进给量减少率	钻削孔深	切削速度减少率	进给量减少率
4DC	10%	10%	8DC	30%	20%
5DC	10%	15%	10DC	30%	25%
6DC	20%	20%	15DC	40%	30%
7DC	20%	20%	20DC	40%	45%

DC: 钻头直径

P

钻头

钻孔[可转位钻头]

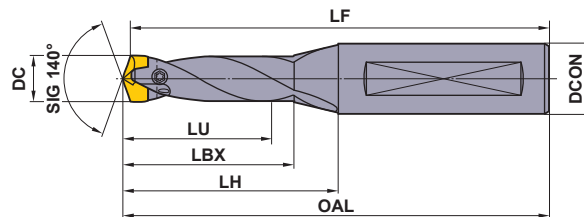
STAW

小径WSTAR可转位钻头

- 波浪刃型，超群的切屑处理性能
- 稳固的夹紧机构可实现稳定的小直径孔加工。



P	M	K	N	S	H
钢	不锈钢	铸铁			



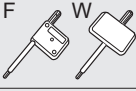
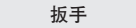
刀柄规格

DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)						 扳手	适用刀片					
		型号	库存	LU	LBX	LH	OAL	LF	DCON		DC (mm)	型号	库存			
													VP15TF	VP10H	DP5010	
10.0 10.4	1.5	STAWSS1000S16	●	16.8	23.8	33.8	81.8	80	16	TIP06F	10.0	※ STAWN1000TH STAWK1000TG	●	□	●	
	3	STAWSN1000S16	●	31.8	38.8	48.8	96.8	95	16	TIP06F	10.1	STAWN1010TH STAWK1010TG	●	□	●	
	5	STAWMN1000S16	●	51.8	58.8	68.8	116.8	115	16	TIP06F	10.2	STAWN1020TH STAWK1020TG	●	□	●	
											10.3	STAWN1030TH STAWK1030TG	●	□	●	
	8	STAWLN1000S16	●	81.8	88.8	98.8	146.8	145	16	TIP06F	10.4	STAWN1040TH STAWK1040TG	●	□	●	
	10.5 10.9	1.5	STAWSS1050S16	●	17.7	23.9	33.9	81.9	80	16	TIP06F	10.5	※ STAWN1050TH STAWK1050TG	●	□	●
		3	STAWSN1050S16	●	33.4	38.9	48.9	96.9	95	16	TIP06F	10.6	STAWN1060TH STAWK1060TG	●	□	●
		5	STAWMN1050S16	●	54.4	58.9	68.9	116.9	115	16	TIP06F	10.7	STAWN1070TH STAWK1070TG	●	□	●
10.8												STAWN1080TH STAWK1080TG	●	□	●	
8		STAWLN1050S16	●	85.9	88.9	98.9	146.9	145	16	TIP06F	10.9	STAWN1090TH STAWK1090TG	●	□	●	
11.0 11.4		1.5	STAWSS1100S16	●	18.5	27.0	38.0	86.0	84	16	TIP06F	11.0	※ STAWN1100TH STAWK1100TG	●	□	●
		3	STAWSN1100S16	●	35.0	43.0	54.0	102.0	100	16	TIP06F	11.1	STAWN1110TH STAWK1110TG	●	□	●
		5	STAWMN1100S16	●	57.0	68.0	79.0	127.0	125	16	TIP06F	11.2	STAWN1120TH STAWK1120TG	●	□	●
	11.3											STAWN1130TH STAWK1130TG	●	□	●	
	8	STAWLN1100S16	●	90.0	98.0	109.0	157.0	155	16	TIP06F	11.4	STAWN1140TH STAWK1140TG	●	□	●	
	11.5 11.9	1.5	STAWSS1150S16	●	19.4	27.1	38.1	86.1	84	16	TIP06F	11.5	※ STAWN1150TH STAWK1150TG	●	□	●
		3	STAWSN1150S16	●	36.6	43.1	54.1	102.1	100	16	TIP06F	11.6	STAWN1160TH STAWK1160TG	●	□	●
		5	STAWMN1150S16	●	59.6	68.1	79.1	127.1	125	16	TIP06F	11.7	STAWN1170TH STAWK1170TG	●	□	●
11.8												STAWN1180TH STAWK1180TG	●	□	●	
8		STAWLN1150S16	●	94.1	98.1	109.1	157.1	155	16	TIP06F	11.9	STAWN1190TH STAWK1190TG	●	□	●	
12.0 12.4		1.5	STAWSS1200S16	●	20.2	29.2	41.2	89.2	87	16	TIP06F	12.0	※ STAWN1200TH STAWK1200TG	●	□	●
		3	STAWSN1200S16	●	38.2	47.2	59.2	107.2	105	16	TIP06F	12.1	STAWN1210TH STAWK1210TG	●	□	●
		5	STAWMN1200S16	●	62.2	72.2	84.2	132.2	130	16	TIP06F	12.2	STAWN1220TH STAWK1220TG	●	□	●
	12.3											STAWN1230TH STAWK1230TG	●	□	●	
	8	STAWLN1200S16	●	98.2	107.2	119.2	167.2	165	16	TIP06F	12.4	STAWN1240TH STAWK1240TG	●	□	●	

注1) 上述尺寸为※标记设置刀片时的尺寸。

注2) 规格品以外的特殊形状(例如不同直径,长度和带倒角刃等),材料等有什么需求也可商谈。

●: 标准库存品 □: 预订生产品

DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)								DC (mm)	适用刀片			
		型号	库存	L	LBX	LH	OAL	LF	DCON				型号	库存		
										VP15TF	VP10H			DP5010		
12.5 12.9	1.5	STAWSS1250S16	●	21.1	29.3	41.3	89.3	87	16	TIP06F	12.5	※ STAWN1250TH STAWK1250TG	●	□	●	
	3	STAWSN1250S16	●	39.8	47.3	59.3	107.3	105	16	TIP06F	12.6	STAWN1260TH STAWK1260TG	●	□	●	
	5	STAWMN1250S16	●	64.8	72.3	84.3	132.3	130	16	TIP06F	12.7	STAWN1270TH STAWK1270TG	●	□	●	
	8	STAWLN1250S16	●	102.3	107.3	119.3	167.3	165	16	TIP06F	12.8	STAWN1280TH STAWK1280TG	●	□	●	
											12.9	STAWN1290TH STAWK1290TG	●	□	●	
	13.0 13.4	1.5	STAWSS1300S16	●	21.9	32.4	45.4	93.4	91	16	TIP08W	13.0	※ STAWN1300TH STAWK1300TG	●	□	●
3		STAWSN1300S16	●	41.4	51.4	64.4	112.4	110	16	TIP08W	13.1	STAWN1310TH STAWK1310TG	●	□	●	
5		STAWMN1300S16	●	67.4	76.4	89.4	137.4	135	16	TIP08W	13.2	STAWN1320TH STAWK1320TG	●	□	●	
8		STAWLN1300S16	●	106.4	116.4	129.4	177.4	175	16	TIP08W	13.3	STAWN1330TH STAWK1330TG	●	□	●	
											13.4	STAWN1340TH STAWK1340TG	●	□	●	
13.5 13.9		1.5	STAWSS1350S16	●	22.8	32.5	45.5	93.5	91	16	TIP08W	13.5	※ STAWN1350TH STAWK1350TG	●	□	●
	3	STAWSN1350S16	●	43.0	51.5	64.5	112.5	110	16	TIP08W	13.6	STAWN1360TH STAWK1360TG	●	□	●	
	5	STAWMN1350S16	●	70.0	76.5	89.5	137.5	135	16	TIP08W	13.7	STAWN1370TH STAWK1370TG	●	□	●	
	8	STAWLN1350S16	●	110.5	116.5	129.5	177.5	175	16	TIP08W	13.8	STAWN1380TH STAWK1380TG	●	□	●	
											13.9	STAWN1390TH STAWK1390TG	●	□	●	
	14.0 14.4	1.5	STAWSS1400S16	●	23.5	33.5	47.5	95.5	93	16	TIP08W	14.0	※ STAWN1400TH STAWK1400TG	●		●
3		STAWSN1400S16	●	44.5	55.5	69.5	117.5	115	16	TIP08W	14.1	STAWN1410TH STAWK1410TG	●		●	
5		STAWMN1400S16	●	72.5	85.5	99.5	147.5	145	16	TIP08W	14.2	STAWN1420TH STAWK1420TG	●		●	
8		STAWLN1400S16	●	114.5	124.5	139.5	187.5	185	16	TIP08W	14.3	STAWN1430TH STAWK1430TG	●		●	
											14.4	STAWN1440TH STAWK1440TG	●		●	
14.5 14.9		1.5	STAWSS1450S16	●	24.4	33.6	47.6	95.6	93	16	TIP08W	14.5	※ STAWN1450TH STAWK1450TG	●		●
	3	STAWSN1450S16	●	46.1	55.6	69.6	117.6	115	16	TIP08W	14.6	STAWN1460TH STAWK1460TG	●		●	
	5	STAWMN1450S16	●	75.1	85.6	99.6	147.6	145	16	TIP08W	14.7	STAWN1470TH STAWK1470TG	●		●	
	8	STAWLN1450S16	●	118.6	124.6	139.6	187.6	185	16	TIP08W	14.8	STAWN1480TH STAWK1480TG	●		●	
											14.9	STAWN1490TH STAWK1490TG	●		●	
	15.0 15.4	1.5	STAWSS1500S20	●	25.2	35.7	50.7	100.7	98	20	TIP08W	15.0	※ STAWN1500TH STAWK1500TG	●		●
3		STAWSN1500S20	●	47.7	62.7	77.7	127.7	125	20	TIP08W	15.1	STAWN1510TH STAWK1510TG	●		●	
5		STAWMN1500S20	●	77.7	92.7	107.7	157.7	155	20	TIP08W	15.2	STAWN1520TH STAWK1520TG	●		●	
8		STAWLN1500S20	●	122.7	132.7	150.7	200.7	198	20	TIP08W	15.3	STAWN1530TH STAWK1530TG	●		●	
											15.4	STAWN1540TH STAWK1540TG	●		●	

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钻头

刀片详见 > P213
切削条件 > P217
使用要点 > P218

零件 > Q001
技术资料 > R001

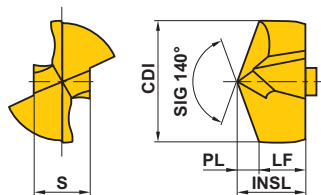
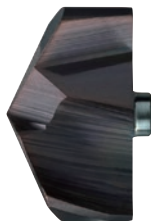
DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)						 W 扳手	适用刀片				
		型号	库存	LU	LBX	LH	OAL	LF	DCON		DC (mm)	型号	库存		
										VP15TF			VP10H	DP5010	
15.5 16.4	1.5	STAWSS1600S20	●	26.1	36.8	52.8	102.8	100	20	TIP10W	15.5	※ STAWN1550T STAWK1550TG	●		●
											15.6	STAWN1560T STAWK1560TG	●		●
												15.7	STAWN1570T STAWK1570TG	●	
	3	STAWSN1600S20	●	49.3	62.8	82.8	132.8	130	20	TIP10W	15.8	STAWN1580T STAWK1580TG	●		●
											15.9	STAWN1590T STAWK1590TG	●		●
												16.0	STAWN1600T STAWK1600TG	●	
	5	STAWMN1600S20	●	80.3	92.8	117.8	167.8	165	20	TIP10W	16.1	STAWN1610T STAWK1610TG	●		●
											16.2	STAWN1620T STAWK1620TG	●		●
												16.3	STAWN1630T STAWK1630TG	●	
	8	STAWLN1600S20	●	126.8	140.8	160.8	210.8	208	20	TIP10W	16.4	STAWN1640T STAWK1640TG	●		●
											16.5	STAWN1650T STAWK1650TG	●		●
												16.6	STAWN1660T STAWK1660TG	●	
16.5 17.4	1.5	STAWSS1700S20	●	27.8	39.0	56.0	106.0	103	20	TIP10W	16.7	STAWN1670T STAWK1670TG	●		●
											16.8	STAWN1680T STAWK1680TG	●		●
												16.9	STAWN1690T STAWK1690TG	●	
	3	STAWSN1700S20	●	52.5	64.0	88.0	138.0	135	20	TIP10W	17.0	STAWN1700T STAWK1700TG	●		●
											17.1	STAWN1710T STAWK1710TG	●		●
												17.2	STAWN1720T STAWK1720TG	●	
	5	STAWMN1700S20	●	85.5	98.0	123.0	173.0	170	20	TIP10W	17.3	STAWN1730T STAWK1730TG	●		●
											17.4	STAWN1740T STAWK1740TG	●		●
												17.5	STAWN1750T STAWK1750TG	●	
	8	STAWLN1700S20	●	135.0	149.0	169.0	219.0	216	20	TIP10W	17.6	STAWN1760T STAWK1760TG	●		●
											17.7	STAWN1770T STAWK1770TG	●		●
												17.8	STAWN1780T STAWK1780TG	●	
17.5 18.4	1.5	STAWSS1800S20	●	29.5	40.2	58.2	108.2	105	20	TIP10W	17.9	STAWN1790T STAWK1790TG	●		●
											18.0	STAWN1800T STAWK1800TG	●		●
												18.1	STAWN1810T STAWK1810TG	●	
	3	STAWSN1800S20	●	55.7	67.2	93.2	143.2	140	20	TIP10W	18.2	STAWN1820T STAWK1820TG	●		●
											18.3	STAWN1830T STAWK1830TG	●		●
												18.4	STAWN1840T STAWK1840TG	●	
	5	STAWMN1800S20	●	90.7	103.2	128.2	178.2	175	20	TIP10W	18.5	STAWN1850T STAWK1850TG	●		●
											18.6	STAWN1860T STAWK1860TG	●		●
												18.7	STAWN1870T STAWK1870TG	●	
	8	STAWLN1800S20	●	143.2	157.2	177.2	227.2	224	20	TIP10W	18.8	STAWN1880T STAWK1880TG	●		●
											18.9	STAWN1890T STAWK1890TG	●		●
												19.0	STAWN1900T STAWK1900TG	●	

注1) 上述尺寸为※标记设置刀片时的尺寸。

注2) 规格品以外的特殊形状(例如不同直径, 长度和带倒角刃等), 材料等有什么需求也可商谈。

●: 标准库存品 □: 预订生产品
(1盒1片装)

刀片



型号	涂层		尺寸 (mm)					对应刀柄
	VP15TF	VP10H	CDI	INSL	LF	PL	S	
STAWN1000TH	●	□	10.0	5.6	3.8	1.8	4.6	STAWSS1000S16 STAWSN1000S16 STAWMN1000S16 STAWLN1000S16
STAWN1010TH	●	□	10.1	5.6	3.8	1.8	4.6	
STAWN1020TH	●	□	10.2	5.7	3.8	1.9	4.6	
STAWN1030TH	●	□	10.3	5.7	3.8	1.9	4.6	
STAWN1040TH	●	□	10.4	5.7	3.8	1.9	4.6	
STAWN1050TH	●	□	10.5	5.9	4.0	1.9	4.8	STAWSS1050S16 STAWSN1050S16 STAWMN1050S16 STAWLN1050S16
STAWN1060TH	●	□	10.6	5.9	4.0	1.9	4.8	
STAWN1070TH	●	□	10.7	5.9	4.0	1.9	4.8	
STAWN1080TH	●	□	10.8	6.0	4.0	2.0	4.8	
STAWN1090TH	●	□	10.9	6.0	4.0	2.0	4.8	
STAWN1100TH	●	□	11.0	6.2	4.2	2.0	5.1	STAWSS1100S16 STAWSN1100S16 STAWMN1100S16 STAWLN1100S16
STAWN1110TH	●	□	11.1	6.2	4.2	2.0	5.1	
STAWN1120TH	●	□	11.2	6.2	4.2	2.0	5.1	
STAWN1130TH	●	□	11.3	6.3	4.2	2.1	5.1	
STAWN1140TH	●	□	11.4	6.3	4.2	2.1	5.1	
STAWN1150TH	●	□	11.5	6.5	4.4	2.1	5.3	STAWSS1150S16 STAWSN1150S16 STAWMN1150S16 STAWLN1150S16
STAWN1160TH	●	□	11.6	6.5	4.4	2.1	5.3	
STAWN1170TH	●	□	11.7	6.5	4.4	2.1	5.3	
STAWN1180TH	●	□	11.8	6.5	4.4	2.1	5.3	
STAWN1190TH	●	□	11.9	6.6	4.4	2.2	5.3	
STAWN1200TH	●	□	12.0	6.8	4.6	2.2	5.5	STAWSS1200S16 STAWSN1200S16 STAWMN1200S16 STAWLN1200S16
STAWN1210TH	●	□	12.1	6.8	4.6	2.2	5.5	
STAWN1220TH	●	□	12.2	6.8	4.6	2.2	5.5	
STAWN1230TH	●	□	12.3	6.8	4.6	2.2	5.5	
STAWN1240TH	●	□	12.4	6.9	4.6	2.3	5.5	
STAWN1250TH	●	□	12.5	7.1	4.8	2.3	5.8	STAWSS1250S16 STAWSN1250S16 STAWMN1250S16 STAWLN1250S16
STAWN1260TH	●	□	12.6	7.1	4.8	2.3	5.8	
STAWN1270TH	●	□	12.7	7.1	4.8	2.3	5.8	
STAWN1280TH	●	□	12.8	7.1	4.8	2.3	5.8	
STAWN1290TH	●	□	12.9	7.1	4.8	2.3	5.8	
STAWN1300TH	●	□	13.0	7.3	4.9	2.4	6.0	STAWSS1300S16 STAWSN1300S16 STAWMN1300S16 STAWLN1300S16
STAWN1310TH	●	□	13.1	7.3	4.9	2.4	6.0	
STAWN1320TH	●	□	13.2	7.3	4.9	2.4	6.0	
STAWN1330TH	●	□	13.3	7.3	4.9	2.4	6.0	
STAWN1340TH	●	□	13.4	7.3	4.9	2.4	6.0	
STAWN1350TH	●	□	13.5	7.6	5.1	2.5	6.2	STAWSS1350S16 STAWSN1350S16 STAWMN1350S16 STAWLN1350S16
STAWN1360TH	●	□	13.6	7.6	5.1	2.5	6.2	
STAWN1370TH	●	□	13.7	7.6	5.1	2.5	6.2	
STAWN1380TH	●	□	13.8	7.6	5.1	2.5	6.2	
STAWN1390TH	●	□	13.9	7.6	5.1	2.5	6.2	
STAWN1400TH	●	□	14.0	7.8	5.3	2.5	6.4	STAWSS1400S16 STAWSN1400S16 STAWMN1400S16 STAWLN1400S16
STAWN1410TH	●	□	14.1	7.9	5.3	2.6	6.4	
STAWN1420TH	●	□	14.2	7.9	5.3	2.6	6.4	
STAWN1430TH	●	□	14.3	7.9	5.3	2.6	6.4	
STAWN1440TH	●	□	14.4	7.9	5.3	2.6	6.4	

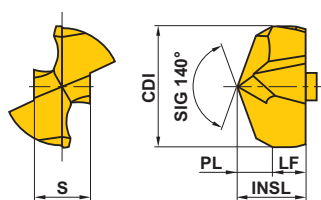
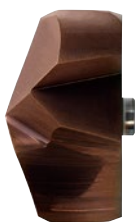
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钻头

型号	涂层		尺寸 (mm)					对应刀柄
	VP15TF	VP10H	CDI	INSL	LF	PL	S	
STAWN1450TH	●		14.5	8.1	5.5	2.6	6.7	STAWSS1450S16 STAWSN1450S16 STAWMN1450S16 STAWLN1450S16
STAWN1460TH	●		14.6	8.2	5.5	2.7	6.7	
STAWN1470TH	●		14.7	8.2	5.5	2.7	6.7	
STAWN1480TH	●		14.8	8.2	5.5	2.7	6.7	
STAWN1490TH	●		14.9	8.2	5.5	2.7	6.7	
STAWN1500TH	●		15.0	8.4	5.7	2.7	6.9	STAWSS1500S20 STAWSN1500S20 STAWMN1500S20 STAWLN1500S20
STAWN1510TH	●		15.1	8.4	5.7	2.7	6.9	
STAWN1520TH	●		15.2	8.5	5.7	2.8	6.9	
STAWN1530TH	●		15.3	8.5	5.7	2.8	6.9	
STAWN1540TH	●		15.4	8.5	5.7	2.8	6.9	
STAWN1550T	●		15.5	8.7	5.9	2.8	7.1	STAWSS1600S20 STAWSN1600S20 STAWMN1600S20 STAWLN1600S20
STAWN1560T	●		15.6	8.7	5.9	2.8	7.1	
STAWN1570T	●		15.7	8.8	5.9	2.9	7.1	
STAWN1580T	●		15.8	8.8	5.9	2.9	7.1	
STAWN1590T	●		15.9	8.8	5.9	2.9	7.1	
STAWN1600T	●		16.0	8.8	5.9	2.9	7.1	
STAWN1610T	●		16.1	8.8	5.9	2.9	7.1	
STAWN1620T	●		16.2	8.8	5.9	2.9	7.1	
STAWN1630T	●		16.3	8.9	5.9	3.0	7.1	
STAWN1640T	●		16.4	8.9	5.9	3.0	7.1	
STAWN1650T	●		16.5	9.3	6.3	3.0	7.6	STAWSS1700S20 STAWSN1700S20 STAWMN1700S20 STAWLN1700S20
STAWN1660T	●		16.6	9.3	6.3	3.0	7.6	
STAWN1670T	●		16.7	9.3	6.3	3.0	7.6	
STAWN1680T	●		16.8	9.4	6.3	3.1	7.6	
STAWN1690T	●		16.9	9.4	6.3	3.1	7.6	
STAWN1700T	●		17.0	9.4	6.3	3.1	7.6	
STAWN1710T	●		17.1	9.4	6.3	3.1	7.6	
STAWN1720T	●		17.2	9.4	6.3	3.1	7.6	
STAWN1730T	●		17.3	9.4	6.3	3.1	7.6	
STAWN1740T	●		17.4	9.5	6.3	3.2	7.6	
STAWN1750T	●		17.5	9.9	6.7	3.2	8.1	STAWSS1800S20 STAWSN1800S20 STAWMN1800S20 STAWLN1800S20
STAWN1760T	●		17.6	9.9	6.7	3.2	8.1	
STAWN1770T	●		17.7	9.9	6.7	3.2	8.1	
STAWN1780T	●		17.8	9.9	6.7	3.2	8.1	
STAWN1790T	●		17.9	10.0	6.7	3.3	8.1	
STAWN1800T	●		18.0	10.0	6.7	3.3	8.1	
STAWN1810T	●		18.1	10.0	6.7	3.3	8.1	
STAWN1820T	●		18.2	10.0	6.7	3.3	8.1	
STAWN1830T	●		18.3	10.0	6.7	3.3	8.1	
STAWN1840T	●		18.4	10.0	6.7	3.3	8.1	

刀片

(铸铁用)



型号	涂层		尺寸 (mm)					对应刀柄
	DP5010		CDI	INSL	LF	PL	S	
STAWK1000TG	●		10.0	5.6	3.3	2.3	4.6	STAWSS1000S16 STAWSN1000S16 STAWMN1000S16 STAWLN1000S16
STAWK1010TG	●		10.1	5.6	3.3	2.3	4.6	
STAWK1020TG	●		10.2	5.6	3.3	2.3	4.6	
STAWK1030TG	●		10.3	5.7	3.3	2.4	4.6	
STAWK1040TG	●		10.4	5.7	3.3	2.4	4.6	
STAWK1050TG	●		10.5	5.9	3.5	2.4	4.8	STAWSS1050S16 STAWSN1050S16 STAWMN1050S16 STAWLN1050S16
STAWK1060TG	●		10.6	5.9	3.5	2.4	4.8	
STAWK1070TG	●		10.7	5.9	3.5	2.4	4.8	
STAWK1080TG	●		10.8	5.9	3.5	2.4	4.8	
STAWK1090TG	●		10.9	6.0	3.5	2.5	4.8	
STAWK1100TG	●		11.0	6.2	3.7	2.5	5.1	STAWSS1100S16 STAWSN1100S16 STAWMN1100S16 STAWLN1100S16
STAWK1110TG	●		11.1	6.2	3.7	2.5	5.1	
STAWK1120TG	●		11.2	6.2	3.7	2.5	5.1	
STAWK1130TG	●		11.3	6.2	3.7	2.5	5.1	
STAWK1140TG	●		11.4	6.3	3.7	2.6	5.1	
STAWK1150TG	●		11.5	6.5	3.9	2.6	5.3	STAWSS1150S16 STAWSN1150S16 STAWMN1150S16 STAWLN1150S16
STAWK1160TG	●		11.6	6.5	3.9	2.6	5.3	
STAWK1170TG	●		11.7	6.5	3.9	2.6	5.3	
STAWK1180TG	●		11.8	6.5	3.9	2.6	5.3	
STAWK1190TG	●		11.9	6.5	3.9	2.6	5.3	
STAWK1200TG	●		12.0	6.8	4.1	2.7	5.5	STAWSS1200S16 STAWSN1200S16 STAWMN1200S16 STAWLN1200S16
STAWK1210TG	●		12.1	6.8	4.1	2.7	5.5	
STAWK1220TG	●		12.2	6.8	4.1	2.7	5.5	
STAWK1230TG	●		12.3	6.8	4.1	2.7	5.5	
STAWK1240TG	●		12.4	6.8	4.1	2.7	5.5	
STAWK1250TG	●		12.5	7.0	4.2	2.8	5.8	STAWSS1250S16 STAWSN1250S16 STAWMN1250S16 STAWLN1250S16
STAWK1260TG	●		12.6	7.0	4.2	2.8	5.8	
STAWK1270TG	●		12.7	7.0	4.2	2.8	5.8	
STAWK1280TG	●		12.8	7.0	4.2	2.8	5.8	
STAWK1290TG	●		12.9	7.0	4.2	2.8	5.8	
STAWK1300TG	●		13.0	7.2	4.4	2.8	6.0	STAWSS1300S16 STAWSN1300S16 STAWMN1300S16 STAWLN1300S16
STAWK1310TG	●		13.1	7.3	4.4	2.9	6.0	
STAWK1320TG	●		13.2	7.3	4.4	2.9	6.0	
STAWK1330TG	●		13.3	7.3	4.4	2.9	6.0	
STAWK1340TG	●		13.4	7.3	4.4	2.9	6.0	
STAWK1350TG	●		13.5	7.5	4.6	2.9	6.2	STAWSS1350S16 STAWSN1350S16 STAWMN1350S16 STAWLN1350S16
STAWK1360TG	●		13.6	7.6	4.6	3.0	6.2	
STAWK1370TG	●		13.7	7.6	4.6	3.0	6.2	
STAWK1380TG	●		13.8	7.6	4.6	3.0	6.2	
STAWK1390TG	●		13.9	7.6	4.6	3.0	6.2	

P

钻头

型号	涂层		尺寸 (mm)					对应刀柄
	DP5010		CDI	INSL	LF	PL	S	
STAWK1400TG	●		14.0	7.8	4.8	3.0	6.4	STAWSS1400S16 STAWSN1400S16 STAWMN1400S16 STAWLN1400S16
STAWK1410TG	●		14.1	7.8	4.8	3.0	6.4	
STAWK1420TG	●		14.2	7.9	4.8	3.1	6.4	
STAWK1430TG	●		14.3	7.9	4.8	3.1	6.4	
STAWK1440TG	●		14.4	7.9	4.8	3.1	6.4	
STAWK1450TG	●		14.5	8.1	5.0	3.1	6.7	STAWSS1450S16 STAWSN1450S16 STAWMN1450S16 STAWLN1450S16
STAWK1460TG	●		14.6	8.1	5.0	3.1	6.7	
STAWK1470TG	●		14.7	8.2	5.0	3.2	6.7	
STAWK1480TG	●		14.8	8.2	5.0	3.2	6.7	
STAWK1490TG	●		14.9	8.2	5.0	3.2	6.7	
STAWK1500TG	●		15.0	8.4	5.2	3.2	6.9	STAWSS1500S20 STAWSN1500S20 STAWMN1500S20 STAWLN1500S20
STAWK1510TG	●		15.1	8.4	5.2	3.2	6.9	
STAWK1520TG	●		15.2	8.4	5.2	3.2	6.9	
STAWK1530TG	●		15.3	8.5	5.2	3.3	6.9	
STAWK1540TG	●		15.4	8.5	5.2	3.3	6.9	
STAWK1550TG	●		15.5	8.7	5.3	3.4	7.1	STAWSS1600S20 STAWSN1600S20 STAWMN1600S20 STAWLN1600S20
STAWK1560TG	●		15.6	8.7	5.3	3.4	7.1	
STAWK1570TG	●		15.7	8.7	5.3	3.4	7.1	
STAWK1580TG	●		15.8	8.8	5.3	3.5	7.1	
STAWK1590TG	●		15.9	8.8	5.3	3.5	7.1	
STAWK1600TG	●		16.0	8.8	5.3	3.5	7.1	
STAWK1610TG	●		16.1	8.8	5.3	3.5	7.1	
STAWK1620TG	●		16.2	8.8	5.3	3.5	7.1	
STAWK1630TG	●		16.3	8.8	5.3	3.5	7.1	
STAWK1640TG	●		16.4	8.9	5.3	3.6	7.1	STAWSS1700S20 STAWSN1700S20 STAWMN1700S20 STAWLN1700S20
STAWK1650TG	●		16.5	9.3	5.7	3.6	7.6	
STAWK1660TG	●		16.6	9.3	5.7	3.6	7.6	
STAWK1670TG	●		16.7	9.3	5.7	3.6	7.6	
STAWK1680TG	●		16.8	9.3	5.7	3.6	7.6	
STAWK1690TG	●		16.9	9.4	5.7	3.7	7.6	
STAWK1700TG	●		17.0	9.4	5.7	3.7	7.6	
STAWK1710TG	●		17.1	9.4	5.7	3.7	7.6	
STAWK1720TG	●		17.2	9.4	5.7	3.7	7.6	
STAWK1730TG	●		17.3	9.4	5.7	3.7	7.6	STAWSS1800S20 STAWSN1800S20 STAWMN1800S20 STAWLN1800S20
STAWK1740TG	●		17.4	9.4	5.7	3.7	7.6	
STAWK1750TG	●		17.5	9.8	6.0	3.8	8.1	
STAWK1760TG	●		17.6	9.8	6.0	3.8	8.1	
STAWK1770TG	●		17.7	9.8	6.0	3.8	8.1	
STAWK1780TG	●		17.8	9.8	6.0	3.8	8.1	
STAWK1790TG	●		17.9	9.8	6.0	3.8	8.1	
STAWK1800TG	●		18.0	9.9	6.0	3.9	8.1	
STAWK1810TG	●		18.1	9.9	6.0	3.9	8.1	
STAWK1820TG	●		18.2	9.9	6.0	3.9	8.1	
STAWK1830TG	●		18.3	9.9	6.0	3.9	8.1	
STAWK1840TG	●		18.4	9.9	6.0	3.9	8.1	

●：标准库存品
(1盒1片装)

修磨量的选择

若希望订购标准修磨量以外的产品,请在型号后加上如下图所示的刃口修磨量代号。

(刀片型号)



(修磨量规定)

刃口修磨量代号	修磨量(mm)
F	无
G	0.02—0.05
H	0.05—0.10
无标记	0.10—0.15
K	0.15—0.20
S	0.20—0.25
M	0.25—0.30

推荐切削条件

工件材料		钻头直径	φ10.0—φ12.9		φ13.0—φ13.9		φ14.0—φ15.4		φ15.5—φ18.4	
		切削条件 硬度	切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)
P	软钢	≤HB180	80 (60—100)	0.20 (0.15—0.25)	90 (70—110)	0.25 (0.20—0.30)	100 (80—120)	0.30 (0.25—0.35)	100 (80—120)	0.35 (0.25—0.40)
	碳钢 合金钢	HB180—280	80 (60—100)	0.20 (0.15—0.25)	90 (70—110)	0.25 (0.20—0.30)	100 (80—120)	0.30 (0.25—0.35)	100 (80—120)	0.35 (0.25—0.40)
		HB280—350	70 (60—90)	0.20 (0.15—0.25)	80 (60—100)	0.25 (0.20—0.30)	90 (70—110)	0.25 (0.20—0.30)	90 (70—110)	0.30 (0.20—0.35)
M	不锈钢	≤HB200	40 (30—50)	0.13 (0.10—0.16)	50 (40—60)	0.15 (0.12—0.18)	60 (50—70)	0.17 (0.14—0.20)	60 (50—70)	0.17 (0.14—0.20)
K	灰铸铁	抗拉强度 ≤350MPa	80 (60—100)	0.20 (0.15—0.25)	90 (70—110)	0.25 (0.20—0.30)	100 (80—120)	0.30 (0.25—0.35)	120 (80—140)	0.45 (0.35—0.55)
	球墨铸铁	抗拉强度 ≤450MPa	70 (60—90)	0.20 (0.15—0.25)	80 (60—100)	0.25 (0.20—0.30)	90 (70—110)	0.30 (0.25—0.35)	100 (80—120)	0.35 (0.25—0.40)

- 注1) DC×1.5条件下使用时,可提高进给速度20%左右。
 注2) 使用DC×8用钻头时,请把切削速度降低20%左右。
 注3) 使用DC×8用钻头时,推荐预先进行同尺寸的导孔加工。
 注4) 不锈钢加工时,请使用内部冷却。(不推荐使用喷雾、MQL冷却方式)

使用注意事项

刀片安装方法

1. 插入刀片前请先确认刀柄的槽部及槽底的间隙部没有异物或污垢。如存有异物或污垢，应该用气枪吹干净。

2. 如图 1 所示，使用附带的扳手轻轻将内螺钉拧松，打开顶部后插入刀片。

※ 请将附带的扳手切实深深插入到内螺钉的扳手孔底部。

3. 插入刀片后，如图 2 所示用手指轻按刀片的顶部，拧紧内螺钉，将刀片切实夹紧。

※ 请将附带的扳手切实深深插入到内螺钉的扳手孔底部。

请按照以下的扭矩安装夹具螺钉

钻头直径 (mm)	扭矩
	N · m
10 —12.9	1
13 —15.4	2
15.5 —18.4	2.5

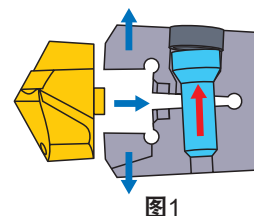
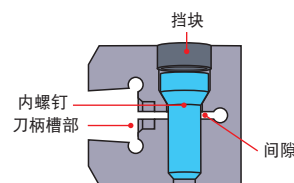


图1

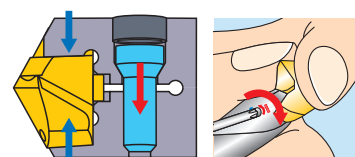
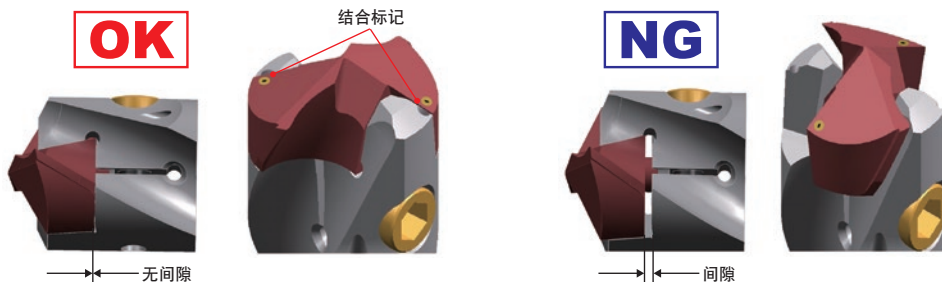


图2

4. 请确认刀片的底面与刀柄槽底部之间没有间隙。



注1) 刀片安装不好时，会造成不能充分发挥刀具性能或刀体破损，因而要特别注意。务必按照结合标记安装。

另外，加工时请使用防护罩、防护镜等防护用具。

内螺钉、挡块零部件表

对应刀柄	内螺钉、挡块套装型号		
		内螺钉	挡块
STAWSS/SN/MN/LN1000S16	WS203107TPS-35LH	WS203107TPS	WS35LH
STAWSS/SN/MN/LN1050S16	WS203107TPS-35LH	WS203107TPS	WS35LH
STAWSS/SN/MN/LN1100S16	WS203108TPS-35LH	WS203108TPS	WS35LH
STAWSS/SN/MN/LN1150S16	WS203108TPS-35LH	WS203108TPS	WS35LH
STAWSS/SN/MN/LN1200S16	WS203108TPS-35LH	WS203108TPS	WS35LH
STAWSS/SN/MN/LN1250S16	WS203108TPS-35LH	WS203108TPS	WS35LH
STAWSS/SN/MN/LN1300S16	WS253909TPS-45LH	WS253909TPS	WS45LH
STAWSS/SN/MN/LN1350S16	WS253909TPS-45LH	WS253909TPS	WS45LH
STAWSS/SN/MN/LN1400S16	WS253909TPS-45LH	WS253909TPS	WS45LH
STAWSS/SN/MN/LN1450S16	WS253909TPS-45LH	WS253909TPS	WS45LH
STAWSS/SN/MN/LN1500S20	WS253909TPS-45LH	WS253909TPS	WS45LH
STAWSS/SN/MN/LN1600S20	WS304912TPS-55LH	WS304912TPS	WS55LH
STAWSS/SN/MN/LN1700S20	WS304912TPS-55LH	WS304912TPS	WS55LH
STAWSS/SN/MN/LN1800S20	WS304912TPS-55LH	WS304912TPS	WS55LH

注1) 推荐使用刀具厂家的内螺钉、挡块等零部件进行更换，更换时请详细阅读说明书中的注意事项。

钻孔[可转位钻头]

TAW

WSTAR可转位钻头

硬质合金

DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)										适用刀片				
		型号	库存	LU	LBX	LH	OAL	LF	DCON	夹紧螺钉	扳手	刮板	防止烧熔剂	DC (mm)	型号	库存		
																VP15TF	DP5010	VP10H
20.5 21.4	3	TAWSN2100S25	●	65.2	78.7	102.7	158.7	155.0	25	WS304518T	TKY10T	WPT4405	MK1KS	20.5	※TAWNH2050T	●		□
															TAWKH2050TG		●	
														20.6	TAWNH2060T	□		□
															TAWKH2060TG		□	
	5	TAWMN2100S25	●	106.2	121.7	142.7	198.7	195.0	25	WS304518T	TKY10T	WPT4405	MK1KS	20.7	TAWNH2070T	□		□
															TAWKH2070TG		□	
														20.8	TAWNH2080T	□		□
															TAWKH2080TG		□	
	8	TAWLN2100S25	●	167.7	181.7	205.7	261.7	258.0	25	WS304518T	TKY10T	WPT4405	MK1KS	20.9	TAWNH2090T	□		□
															TAWKH2090TG		□	
														21.0	TAWNH2100T	●		□
															TAWKH2100TG		●	
21.5 22.4	3	TAWSN2200S25	●	68.4	83.2	108.2	164.2	160.3	25	WS355520T	TKY15T	WPT4405	MK1KS	21.1	TAWNH2110T	□		□
															TAWKH2110TG		□	
														21.2	TAWNH2120T	□		□
															TAWKH2120TG		□	
	5	TAWMN2200S25	●	111.4	128.2	148.2	204.2	200.3	25	WS355520T	TKY15T	WPT4405	MK1KS	21.3	TAWNH2130T	□		□
															TAWKH2130TG		□	
														21.4	TAWNH2140T	□		□
															TAWKH2140TG		□	
	8	TAWLN2200S25	●	175.9	189.9	213.9	269.9	266.0	25	WS355520T	TKY15T	WPT4405	MK1KS	21.5	※TAWNH2150T	●		□
															TAWKH2150TG		●	
														21.6	TAWNH2160T	□		□
															TAWKH2160TG		□	
22.5 23.4	3	TAWSN2300S25	●	71.6	86.4	108.4	164.4	160.3	25	WS355521T	TKY15T	WPT4405	MK1KS	21.7	TAWNH2170T	□		□
															TAWKH2170TG		□	
														21.8	TAWNH2180T	□		□
															TAWKH2180TG		□	
	5	TAWMN2300S25	●	116.6	133.4	158.4	214.4	210.3	25	WS355521T	TKY15T	WPT4405	MK1KS	21.9	TAWNH2190T	□		□
															TAWKH2190TG		□	
														22.0	TAWNH2200T	●		□
															TAWKH2200TG		●	
	8	TAWLN2300S25	●	184.1	198.1	227.1	283.1	279.0	25	WS355521T	TKY15T	WPT4405	MK1KS	22.1	TAWNH2210T	□		□
															TAWKH2210TG		□	
														22.2	TAWNH2220T	□		□
															TAWKH2220TG		□	
P 钻头	3	TAWSN2300S25	●	71.6	86.4	108.4	164.4	160.3	25	WS355521T	TKY15T	WPT4405	MK1KS	22.3	TAWNH2230T	□		□
															TAWKH2230TG		□	
														22.4	TAWNH2240T	□		□
															TAWKH2240TG		□	
	5	TAWMN2300S25	●	116.6	133.4	158.4	214.4	210.3	25	WS355521T	TKY15T	WPT4405	MK1KS	22.5	※TAWNH2250T	●		□
															TAWKH2250TG		●	
														22.6	TAWNH2260T	□		□
															TAWKH2260TG		□	
	8	TAWLN2300S25	●	184.1	198.1	227.1	283.1	279.0	25	WS355521T	TKY15T	WPT4405	MK1KS	22.7	TAWNH2270T	□		□
															TAWKH2270TG		□	
														22.8	TAWNH2280T	□		□
															TAWKH2280TG		□	
P 钻头	3	TAWSN2300S25	●	71.6	86.4	108.4	164.4	160.3	25	WS355521T	TKY15T	WPT4405	MK1KS	22.9	TAWNH2290T	□		□
															TAWKH2290TG		□	
														23.0	TAWNH2300T	●		□
															TAWKH2300TG		●	
	5	TAWMN2300S25	●	116.6	133.4	158.4	214.4	210.3	25	WS355521T	TKY15T	WPT4405	MK1KS	23.1	TAWNH2310T	□		□
															TAWKH2310TG		□	
														23.2	TAWNH2320T	□		□
															TAWKH2320TG		□	
	8	TAWLN2300S25	●	184.1	198.1	227.1	283.1	279.0	25	WS355521T	TKY15T	WPT4405	MK1KS	23.3	TAWNH2330T	□		□
															TAWKH2330TG		□	
														23.4	TAWNH2340T	□		□
															TAWKH2340TG		□	

注1) 尺寸为※标记设置刀片时的尺寸。

注2) 规格品以外的特殊形状(例如不同直径,长度和带倒角刃等),材料等有什么需求也可商谈。

●: 标准库存品 □: 预订生产品

DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)										适用刀片				
		型号	库存	LU	LBX	LH	OAL	LF	DCON	DC	型号	库存						
												VP15TF	DP5010	VP10H				
23.5 24.4	3	TAWSN2400S32	●	74.8	90.6	114.6	174.6	170.3	32	WS355521T	TKY15T	WPT4405	MK1KS	23.5	※TAWNH2350T	●		□
															TAWKH2350TG		●	
														23.6	TAWNH2360T	□		□
															TAWKH2360TG		□	
	5	TAWMN2400S32	●	121.8	139.6	164.6	224.6	220.3	32	WS355521T	TKY15T	WPT4405	MK1KS	23.7	TAWNH2370T	□		□
															TAWKH2370TG		□	
														23.8	TAWNH2380T	□		□
															TAWKH2380TG		□	
	8	TAWLN2400S32	●	192.3	206.6	236.6	296.6	292.3	32	WS355521T	TKY15T	WPT4405	MK1KS	23.9	TAWNH2390T	□		□
															TAWKH2390TG		□	
														24.0	TAWNH2400T	●		□
															TAWKH2400TG		●	
24.5 25.4	3	TAWSN2500S32	●	78.0	93.1	115.1	175.1	170.6	32	WS406023T	TKY25T	WPT4405	MK1KS	24.1	TAWNH2410T	□		□
															TAWKH2410TG		□	
														24.2	TAWNH2420T	□		□
															TAWKH2420TG		□	
	5	TAWMN2500S32	●	127.0	145.1	170.1	230.1	225.6	32	WS406023T	TKY25T	WPT4405	MK1KS	24.3	TAWNH2430T	□		□
															TAWKH2430TG		□	
														24.4	TAWNH2440T	□		□
															TAWKH2440TG		□	
	8	TAWLN2500S32	●	200.5	215.1	245.1	305.1	300.6	32	WS406023T	TKY25T	WPT4405	MK1KS	24.5	※TAWNH2450T	●		□
															TAWKH2450TG		●	
														24.6	TAWNH2460T	□		□
															TAWKH2460TG		□	
25.5 26.4	3	TAWSN2600S32	●	81.1	97.2	120.2	180.2	175.6	32	WS406024T	TKY25T	WPT4405	MK1KS	24.7	TAWNH2470T	□		□
															TAWKH2470TG		□	
														24.8	TAWNH2480T	□		□
															TAWKH2480TG		□	
	5	TAWMN2600S32	●	132.1	151.2	175.2	235.2	230.6	32	WS406024T	TKY25T	WPT4405	MK1KS	24.9	TAWNH2490T	□		□
															TAWKH2490TG		□	
														25.0	TAWNH2500T	●		□
															TAWKH2500TG		●	
	8	TAWLN2600S32	●	208.6	223.2	253.2	313.2	308.6	32	WS406024T	TKY25T	WPT4405	MK1KS	25.1	TAWNH2510T	□		□
															TAWKH2510TG		□	
														25.2	TAWNH2520T	□		□
															TAWKH2520TG		□	
25.5 26.4	3	TAWSN2600S32	●	81.1	97.2	120.2	180.2	175.6	32	WS406024T	TKY25T	WPT4405	MK1KS	25.3	TAWNH2530T	□		□
															TAWKH2530TG		□	
														25.4	TAWNH2540T	□		□
															TAWKH2540TG		□	
	5	TAWMN2600S32	●	132.1	151.2	175.2	235.2	230.6	32	WS406024T	TKY25T	WPT4405	MK1KS	25.5	※TAWNH2550T	●		□
															TAWKH2550TG		●	
														25.6	TAWNH2560T	□		□
															TAWKH2560TG		□	
	8	TAWLN2600S32	●	208.6	223.2	253.2	313.2	308.6	32	WS406024T	TKY25T	WPT4405	MK1KS	25.7	TAWNH2570T	□		□
															TAWKH2570TG		□	
														25.8	TAWNH2580T	□		□
															TAWKH2580TG		□	
25.5 26.4	3	TAWSN2600S32	●	81.1	97.2	120.2	180.2	175.6	32	WS406024T	TKY25T	WPT4405	MK1KS	25.9	TAWNH2590T	□		□
															TAWKH2590TG		□	
														26.0	TAWNH2600T	●		□
															TAWKH2600TG		●	
	5	TAWMN2600S32	●	132.1	151.2	175.2	235.2	230.6	32	WS406024T	TKY25T	WPT4405	MK1KS	26.1	TAWNH2610T	□		□
															TAWKH2610TG		□	
														26.2	TAWNH2620T	□		□
															TAWKH2620TG		□	
	8	TAWLN2600S32	●	208.6	223.2	253.2	313.2	308.6	32	WS406024T	TKY25T	WPT4405	MK1KS	26.3	TAWNH2630T	□		□
															TAWKH2630TG		□	
														26.4	TAWNH2640T	□		□
															TAWKH2640TG		□	

DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)										适用刀片				
		型号	库存	LU	LBX	LH	OAL	LF	DCON	夹紧螺钉	扳手	刮板	防止烧熔剂	DC (mm)	型号	库存		
																VP15TF	DP5010	VP10H
26.5 27.4	3	TAWSN2700S32	●	84.3	99.4	120.4	180.4	175.6	32	WS406024T	TKY25T	WPT4405	MK1KS	26.5	※TAWNH2650T	●		□
														TAWKH2650TG		●		
														26.6	TAWNH2660T	□		□
														TAWKH2660TG		□		
														26.7	TAWNH2670T	□		□
	5	TAWMN2700S32	●	137.3	156.4	180.4	240.4	235.6	32	WS406024T	TKY25T	WPT4405	MK1KS	26.8	TAWKH2680T	□		□
														TAWKH2680TG		□		
														26.9	TAWNH2690T	□		□
														TAWKH2690TG		□		
														27.0	TAWNH2700T	●		□
	8	TAWLN2700S32	●	216.8	231.4	261.4	321.4	316.6	32	WS406024T	TKY25T	WPT4405	MK1KS	27.1	TAWKH2700TG		●	
														TAWNH2710T	□		□	
TAWKH2710TG															□			
27.2														TAWNH2720T	□		□	
TAWKH2720TG															□			
27.5 28.4	3	TAWSN2800S32	●	87.5	102.2	125.2	185.2	180.2	32	WS508026T	TKY27T	WPT4405	MK1KS	27.3	TAWNH2730T	□		□
														TAWKH2730TG		□		
														27.4	TAWNH2740T	□		□
														TAWKH2740TG		□		
														27.5	※TAWNH2750T	●		□
	5	TAWMN2800S32	●	142.5	162.2	185.2	245.2	240.2	32	WS508026T	TKY27T	WPT4405	MK1KS	TAWKH2750TG		●		
														27.6	TAWNH2760T	□		□
														TAWKH2760TG		□		
														27.7	TAWNH2770T	□		□
														TAWKH2770TG		□		
	8	TAWLN2800S32	●	225.0	239.2	269.2	329.2	324.2	32	WS508026T	TKY27T	WPT4405	MK1KS	27.8	TAWNH2780T	□		□
														TAWKH2780TG		□		
27.9														TAWNH2790T	□		□	
TAWKH2790TG															□			
28.0														TAWNH2800T	●		□	
28.5 29.4	3	TAWSN2900S32	●	90.7	105.4	130.4	190.4	185.2	32	WS508027T	TKY27T	WPT4405	MK1KS	TAWKH2800TG		●		
														28.1	TAWNH2810T	□		□
														TAWKH2810TG		□		
														28.2	TAWNH2820T	□		□
														TAWKH2820TG		□		
	5	TAWMN2900S32	●	147.7	167.4	190.4	250.4	245.2	32	WS508027T	TKY27T	WPT4405	MK1KS	28.3	TAWNH2830T	□		□
														TAWKH2830TG		□		
														28.4	TAWNH2840T	□		□
														TAWKH2840TG		□		
														28.5	※TAWNH2850T	●		□
	8	TAWLN2900S32	●	233.2	247.4	277.4	337.4	332.2	32	WS508027T	TKY27T	WPT4405	MK1KS	TAWKH2850TG		●		
														28.6	TAWNH2860T	□		□
TAWKH2860TG															□			
28.7														TAWNH2870T	□		□	
TAWKH2870TG															□			
29.0 29.4	3	TAWSN2900S32	●	90.7	105.4	130.4	190.4	185.2	32	WS508027T	TKY27T	WPT4405	MK1KS	28.8	TAWNH2880T	□		□
														TAWKH2880TG		□		
														28.9	TAWNH2890T	□		□
														TAWKH2890TG		□		
														29.0	TAWNH2900T	●		□
	5	TAWMN2900S32	●	147.7	167.4	190.4	250.4	245.2	32	WS508027T	TKY27T	WPT4405	MK1KS	TAWKH2900TG		●		
														29.1	TAWNH2910T	□		□
														TAWKH2910TG		□		
														29.2	TAWNH2920T	□		□
														TAWKH2920TG		□		
	8	TAWLN2900S32	●	233.2	247.4	277.4	337.4	332.2	32	WS508027T	TKY27T	WPT4405	MK1KS	29.3	TAWNH2930T	□		□
														TAWKH2930TG		□		
29.4														TAWNH2940T	□		□	
TAWKH2940TG															□			

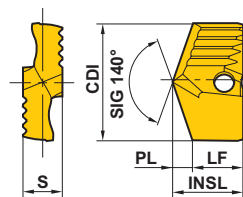
注1) 尺寸为※标记设置刀片时的尺寸。
注2) 规格品以外的特殊形状(例如不同直径,长度和带倒角刃等),材料等有什么需求也可商谈。

●: 标准库存品 □: 预订生产品

DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)										适用刀片				
		型号	库存	LU	LBX	LH	OAL	LF	DCON	DC (mm)	型号	库存						
												VP15TF	DP5010	VP10H				
29.5 30.4	3	TAWSN3000S32	●	93.9	109.6	130.6	190.6	185.2	32	WS508027T	TKY27T	WPT4405	MK1KS	29.5	※TAWNH2950T	●		□
															TAWKH2950TG		●	
														29.6	TAWNH2960T	□		□
															TAWKH2960TG		□	
														29.7	TAWNH2970T	□		□
	5	TAWMN3000S32	●	152.9	172.6	200.6	260.6	255.2	32	WS508027T	TKY27T	WPT4405	MK1KS	29.8	TAWKH2970TG		□	
															TAWNH2980T	□		□
															TAWKH2980TG		□	
														29.9	TAWNH2990T	□		□
															TAWKH2990TG		□	
	8	TAWLN3000S32	●	241.4	255.6	290.6	350.6	345.2	32	WS508027T	TKY27T	WPT4405	MK1KS	30.0	TAWNH3000T	●		□
															TAWKH3000TG		●	
														30.1	TAWNH3010T	□		□
															TAWKH3010TG		□	
														30.2	TAWNH3020T	□		□
	TAWKH3020TG		□															
													MK1KS	30.3	TAWNH3030T	□		□
															TAWKH3030TG		□	
														30.4	TAWNH3040T	□		□
															TAWKH3040TG		□	

刀片

H 型



型号	涂层		尺寸 (mm)					对应刀柄
	VP15TF	VP10H	CDI	INSL	LF	PL	S	
TAWNH1850T	●	□	18.5	12.7	9.3	3.4	7.0	TAWSN 1900S25
TAWNH1860T	●	□	18.6	12.7	9.3	3.4	7.0	
TAWNH1870T	●	□	18.7	12.7	9.3	3.4	7.0	
TAWNH1880T	●	□	18.8	12.7	9.3	3.4	7.0	
TAWNH1890T	●	□	18.9	12.7	9.3	3.4	7.0	
TAWNH1900T	●	□	19.0	12.7	9.2	3.5	7.0	TAWMN 1900S25
TAWNH1910T	●	□	19.1	12.7	9.2	3.5	7.0	TAWLN 1900S25
TAWNH1920T	●	□	19.2	12.7	9.2	3.5	7.0	
TAWNH1930T	●	□	19.3	12.7	9.2	3.5	7.0	
TAWNH1940T	●	□	19.4	12.7	9.2	3.5	7.0	
TAWNH1950T	●	□	19.5	12.6	9.1	3.5	7.0	
TAWNH1960T	●	□	19.6	12.7	9.1	3.6	7.0	TAWSN 2000S25
TAWNH1970T	●	□	19.7	12.7	9.1	3.6	7.0	
TAWNH1980T	●	□	19.8	12.7	9.1	3.6	7.0	
TAWNH1990T	●	□	19.9	12.7	9.1	3.6	7.0	
TAWNH2000T	●	□	20.0	12.6	9.0	3.6	7.0	
TAWNH2010T	□	□	20.1	12.7	9.0	3.7	7.0	TAWLN 2000S25
TAWNH2020T	□	□	20.2	12.7	9.0	3.7	7.0	
TAWNH2030T	□	□	20.3	12.7	9.0	3.7	7.0	
TAWNH2040T	□	□	20.4	12.7	9.0	3.7	7.0	
TAWNH2050T	●	□	20.5	12.6	8.9	3.7	7.0	
TAWNH2060T	□	□	20.6	12.6	8.9	3.7	7.0	TAWSN 2100S25
TAWNH2070T	□	□	20.7	12.7	8.9	3.8	7.0	
TAWNH2080T	□	□	20.8	12.7	8.9	3.8	7.0	
TAWNH2090T	□	□	20.9	12.7	8.9	3.8	7.0	
TAWNH2100T	●	□	21.0	12.6	8.8	3.8	7.0	
TAWNH2110T	□	□	21.1	12.6	8.8	3.8	7.0	TAWLN 2100S25
TAWNH2120T	□	□	21.2	12.7	8.8	3.9	7.0	
TAWNH2130T	□	□	21.3	12.7	8.8	3.9	7.0	
TAWNH2140T	□	□	21.4	12.7	8.8	3.9	7.0	
TAWNH2150T	●	□	21.5	14.5	10.6	3.9	8.0	
TAWNH2160T	□	□	21.6	14.5	10.6	3.9	8.0	TAWSN 2200S25
TAWNH2170T	□	□	21.7	14.5	10.6	3.9	8.0	
TAWNH2180T	□	□	21.8	14.6	10.6	4.0	8.0	
TAWNH2190T	□	□	21.9	14.6	10.6	4.0	8.0	
TAWNH2200T	●	□	22.0	14.5	10.5	4.0	8.0	
TAWNH2210T	□	□	22.1	14.5	10.5	4.0	8.0	TAWLN 2200S25
TAWNH2220T	□	□	22.2	14.5	10.5	4.0	8.0	
TAWNH2230T	□	□	22.3	14.6	10.5	4.1	8.0	
TAWNH2240T	□	□	22.4	14.6	10.5	4.1	8.0	
TAWNH2250T	●	□	22.5	14.5	10.4	4.1	8.0	
TAWNH2260T	□	□	22.6	14.5	10.4	4.1	8.0	TAWSN 2300S25
TAWNH2270T	□	□	22.7	14.5	10.4	4.1	8.0	TAWMN 2300S25
TAWNH2280T	□	□	22.8	14.5	10.4	4.1	8.0	TAWLN 2300S25
TAWNH2290T	□	□	22.9	14.6	10.4	4.2	8.0	

型号	涂层		尺寸 (mm)					对应刀柄
	VP15TF	VP10H	CDI	INSL	LF	PL	S	
TAWNH2300T	●	□	23.0	14.5	10.3	4.2	8.0	TAWSN 2300S25
TAWNH2310T	□	□	23.1	14.5	10.3	4.2	8.0	
TAWNH2320T	□	□	23.2	14.5	10.3	4.2	8.0	
TAWNH2330T	□	□	23.3	14.5	10.3	4.2	8.0	
TAWNH2340T	□	□	23.4	14.6	10.3	4.3	8.0	
TAWNH2350T	●	□	23.5	14.5	10.2	4.3	8.0	TAWSN 2400S32
TAWNH2360T	□	□	23.6	14.5	10.2	4.3	8.0	
TAWNH2370T	□	□	23.7	14.5	10.2	4.3	8.0	
TAWNH2380T	□	□	23.8	14.5	10.2	4.3	8.0	
TAWNH2390T	□	□	23.9	14.5	10.2	4.3	8.0	
TAWNH2400T	●	□	24.0	14.5	10.1	4.4	8.0	TAWMN 2400S32
TAWNH2410T	□	□	24.1	14.5	10.1	4.4	8.0	
TAWNH2420T	□	□	24.2	14.5	10.1	4.4	8.0	
TAWNH2430T	□	□	24.3	14.5	10.1	4.4	8.0	
TAWNH2440T	□	□	24.4	14.5	10.1	4.4	8.0	
TAWNH2450T	●	□	24.5	16.2	11.7	4.5	9.0	TAWSN 2500S32
TAWNH2460T	□	□	24.6	16.2	11.7	4.5	9.0	
TAWNH2470T	□	□	24.7	16.2	11.7	4.5	9.0	
TAWNH2480T	□	□	24.8	16.2	11.7	4.5	9.0	
TAWNH2490T	□	□	24.9	16.2	11.7	4.5	9.0	
TAWNH2500T	●	□	25.0	16.1	11.6	4.5	9.0	TAWMN 2500S32
TAWNH2510T	□	□	25.1	16.2	11.6	4.6	9.0	
TAWNH2520T	□	□	25.2	16.2	11.6	4.6	9.0	
TAWNH2530T	□	□	25.3	16.2	11.6	4.6	9.0	
TAWNH2540T	□	□	25.4	16.2	11.6	4.6	9.0	
TAWNH2550T	●	□	25.5	16.1	11.5	4.6	9.0	TAWSN 2600S32
TAWNH2560T	□	□	25.6	16.2	11.5	4.7	9.0	
TAWNH2570T	□	□	25.7	16.2	11.5	4.7	9.0	
TAWNH2580T	□	□	25.8	16.2	11.5	4.7	9.0	
TAWNH2590T	□	□	25.9	16.2	11.5	4.7	9.0	
TAWNH2600T	●	□	26.0	16.1	11.4	4.7	9.0	TAWMN 2600S32
TAWNH2610T	□	□	26.1	16.1	11.4	4.7	9.0	
TAWNH2620T	□	□	26.2	16.2	11.4	4.8	9.0	
TAWNH2630T	□	□	26.3	16.2	11.4	4.8	9.0	
TAWNH2640T	□	□	26.4	16.2	11.4	4.8	9.0	
TAWNH2650T	●	□	26.5	16.1	11.3	4.8	9.0	TAWSN 2700S32
TAWNH2660T	□	□	26.6	16.1	11.3	4.8	9.0	
TAWNH2670T	□	□	26.7	16.2	11.3	4.9	9.0	
TAWNH2680T	□	□	26.8	16.2	11.3	4.9	9.0	
TAWNH2690T	□	□	26.9	16.2	11.3	4.9	9.0	
TAWNH2700T	●	□	27.0	16.1	11.2	4.9	9.0	TAWMN 2700S32
TAWNH2710T	□	□	27.1	16.1	11.2	4.9	9.0	
TAWNH2720T	□	□	27.2	16.1	11.2	4.9	9.0	
TAWNH2730T	□	□	27.3	16.2	11.2	5.0	9.0	
TAWNH2740T	□	□	27.4	16.2	11.2	5.0	9.0	

●：标准库存品 □：预订生产品
(1盒1片装)

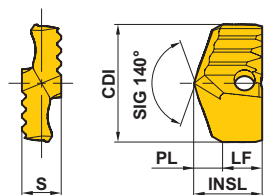
型号	涂层		尺寸 (mm)					对应刀柄
	VP15TF	VP10H	CDI	INSL	LF	PL	S	
TAWNH2750T	●	□	27.5	17.3	12.3	5.0	10.0	TAWSN 2800S32
TAWNH2760T	□	□	27.6	17.3	12.3	5.0	10.0	
TAWNH2770T	□	□	27.7	17.3	12.3	5.0	10.0	
TAWNH2780T	□	□	27.8	17.4	12.3	5.1	10.0	
TAWNH2790T	□	□	27.9	17.4	12.3	5.1	10.0	
TAWNH2800T	●	□	28.0	17.3	12.2	5.1	10.0	TAWMN 2800S32
TAWNH2810T	□	□	28.1	17.3	12.2	5.1	10.0	TAWLN 2800S32
TAWNH2820T	□	□	28.2	17.3	12.2	5.1	10.0	
TAWNH2830T	□	□	28.3	17.4	12.2	5.2	10.0	
TAWNH2840T	□	□	28.4	17.4	12.2	5.2	10.0	
TAWNH2850T	●	□	28.5	17.3	12.1	5.2	10.0	
TAWNH2860T	□	□	28.6	17.3	12.1	5.2	10.0	TAWSN 2900S32
TAWNH2870T	□	□	28.7	17.3	12.1	5.2	10.0	
TAWNH2880T	□	□	28.8	17.3	12.1	5.2	10.0	
TAWNH2890T	□	□	28.9	17.4	12.1	5.3	10.0	
TAWNH2900T	●	□	29.0	17.3	12.0	5.3	10.0	
TAWNH2910T	□	□	29.1	17.3	12.0	5.3	10.0	TAWLN 2900S32
TAWNH2920T	□	□	29.2	17.3	12.0	5.3	10.0	
TAWNH2930T	□	□	29.3	17.3	12.0	5.3	10.0	
TAWNH2940T	□	□	29.4	17.4	12.0	5.4	10.0	

型号	涂层		尺寸 (mm)					对应刀柄
	VP15TF	VP10H	CDI	INSL	LF	PL	S	
TAWNH2950T	●	□	29.5	17.3	11.9	5.4	10.0	TAWSN 3000S32
TAWNH2960T	□	□	29.6	17.3	11.9	5.4	10.0	
TAWNH2970T	□	□	29.7	17.3	11.9	5.4	10.0	
TAWNH2980T	□	□	29.8	17.3	11.9	5.4	10.0	
TAWNH2990T	□	□	29.9	17.3	11.9	5.4	10.0	
TAWNH3000T	●	□	30.0	17.3	11.8	5.5	10.0	TAWMN 3000S32
TAWNH3010T	□	□	30.1	17.3	11.8	5.5	10.0	TAWLN 3000S32
TAWNH3020T	□	□	30.2	17.3	11.8	5.5	10.0	
TAWNH3030T	□	□	30.3	17.3	11.8	5.5	10.0	
TAWNH3040T	□	□	30.4	17.3	11.8	5.5	10.0	

刀片

H 型

(铸铁用)



型号	涂层	尺寸 (mm)					对应刀柄
	DP6010	CDI	INSL	LF	PL	S	
TAWKH1850TG	●	18.5	12.7	8.6	4.1	7.0	TAWSN 1900S25
TAWKH1860TG	●	18.6	12.7	8.6	4.1	7.0	
TAWKH1870TG	●	18.7	12.7	8.6	4.1	7.0	
TAWKH1880TG	●	18.8	12.7	8.6	4.1	7.0	
TAWKH1890TG	●	18.9	12.7	8.6	4.1	7.0	
TAWKH1900TG	●	19.0	12.6	8.5	4.1	7.0	TAWMN 1900S25
TAWKH1910TG	●	19.1	12.7	8.5	4.2	7.0	
TAWKH1920TG	●	19.2	12.7	8.5	4.2	7.0	
TAWKH1930TG	●	19.3	12.7	8.5	4.2	7.0	
TAWKH1940TG	●	19.4	12.7	8.5	4.2	7.0	
TAWKH1950TG	●	19.5	12.6	8.4	4.2	7.0	TAWLN 1900S25
TAWKH1960TG	●	19.6	12.7	8.4	4.3	7.0	
TAWKH1970TG	●	19.7	12.7	8.4	4.3	7.0	
TAWKH1980TG	●	19.8	12.7	8.4	4.3	7.0	
TAWKH1990TG	●	19.9	12.7	8.4	4.3	7.0	
TAWKH2000TG	●	20.0	12.6	8.3	4.3	7.0	TAWSN 2000S25
TAWKH2010TG	□	20.1	12.6	8.3	4.3	7.0	
TAWKH2020TG	□	20.2	12.7	8.3	4.4	7.0	
TAWKH2030TG	□	20.3	12.7	8.3	4.4	7.0	
TAWKH2040TG	□	20.4	12.7	8.3	4.4	7.0	
TAWKH2050TG	●	20.5	12.6	8.2	4.4	7.0	TAWMN 2000S25
TAWKH2060TG	□	20.6	12.6	8.2	4.4	7.0	
TAWKH2070TG	□	20.7	12.7	8.2	4.5	7.0	
TAWKH2080TG	□	20.8	12.7	8.2	4.5	7.0	
TAWKH2090TG	□	20.9	12.7	8.2	4.5	7.0	
TAWKH2100TG	●	21.0	12.6	8.1	4.5	7.0	TAWLN 2100S25
TAWKH2110TG	□	21.1	12.6	8.1	4.5	7.0	
TAWKH2120TG	□	21.2	12.6	8.1	4.5	7.0	
TAWKH2130TG	□	21.3	12.7	8.1	4.6	7.0	
TAWKH2140TG	□	21.4	12.7	8.1	4.6	7.0	
TAWKH2150TG	●	21.5	14.5	9.8	4.7	8.0	TAWSN 2200S25
TAWKH2160TG	□	21.6	14.5	9.8	4.7	8.0	
TAWKH2170TG	□	21.7	14.5	9.8	4.7	8.0	
TAWKH2180TG	□	21.8	14.6	9.8	4.8	8.0	
TAWKH2190TG	□	21.9	14.6	9.8	4.8	8.0	
TAWKH2200TG	●	22.0	14.5	9.7	4.8	8.0	TAWMN 2200S25
TAWKH2210TG	□	22.1	14.5	9.7	4.8	8.0	
TAWKH2220TG	□	22.2	14.5	9.7	4.8	8.0	
TAWKH2230TG	□	22.3	14.5	9.7	4.8	8.0	
TAWKH2240TG	□	22.4	14.6	9.7	4.9	8.0	
TAWKH2250TG	●	22.5	14.5	9.6	4.9	8.0	TAWLN 2300S25
TAWKH2260TG	□	22.6	14.5	9.6	4.9	8.0	
TAWKH2270TG	□	22.7	14.5	9.6	4.9	8.0	
TAWKH2280TG	□	22.8	14.5	9.6	4.9	8.0	
TAWKH2290TG	□	22.9	14.6	9.6	5.0	8.0	

型号	涂层	尺寸 (mm)					对应刀柄
	DP6010	CDI	INSL	LF	PL	S	
TAWKH2300TG	●	23.0	14.5	9.5	5.0	8.0	TAWSN 2300S25
TAWKH2310TG	□	23.1	14.5	9.5	5.0	8.0	
TAWKH2320TG	□	23.2	14.5	9.5	5.0	8.0	
TAWKH2330TG	□	23.3	14.5	9.5	5.0	8.0	
TAWKH2340TG	□	23.4	14.5	9.5	5.0	8.0	
TAWKH2350TG	●	23.5	14.5	9.4	5.1	8.0	TAWMN 2300S25
TAWKH2360TG	□	23.6	14.5	9.4	5.1	8.0	
TAWKH2370TG	□	23.7	14.5	9.4	5.1	8.0	
TAWKH2380TG	□	23.8	14.5	9.4	5.1	8.0	
TAWKH2390TG	□	23.9	14.5	9.4	5.1	8.0	
TAWKH2400TG	●	24.0	14.5	9.3	5.2	8.0	TAWLN 2300S25
TAWKH2410TG	□	24.1	14.5	9.3	5.2	8.0	
TAWKH2420TG	□	24.2	14.5	9.3	5.2	8.0	
TAWKH2430TG	□	24.3	14.5	9.3	5.2	8.0	
TAWKH2440TG	□	24.4	14.5	9.3	5.2	8.0	
TAWKH2450TG	●	24.5	16.0	10.7	5.3	9.0	TAWSN 2400S32
TAWKH2460TG	□	24.6	16.1	10.7	5.4	9.0	
TAWKH2470TG	□	24.7	16.1	10.7	5.4	9.0	
TAWKH2480TG	□	24.8	16.1	10.7	5.4	9.0	
TAWKH2490TG	□	24.9	16.1	10.7	5.4	9.0	
TAWKH2500TG	●	25.0	16.1	10.7	5.4	9.0	TAWMN 2400S32
TAWKH2510TG	□	25.1	16.2	10.7	5.5	9.0	
TAWKH2520TG	□	25.2	16.2	10.7	5.5	9.0	
TAWKH2530TG	□	25.3	16.2	10.7	5.5	9.0	
TAWKH2540TG	□	25.4	16.2	10.7	5.5	9.0	
TAWKH2550TG	●	25.5	16.1	10.6	5.5	9.0	TAWLN 2500S32
TAWKH2560TG	□	25.6	16.1	10.6	5.5	9.0	
TAWKH2570TG	□	25.7	16.2	10.6	5.6	9.0	
TAWKH2580TG	□	25.8	16.2	10.6	5.6	9.0	
TAWKH2590TG	□	25.9	16.2	10.6	5.6	9.0	
TAWKH2600TG	●	26.0	16.1	10.5	5.6	9.0	TAWSN 2500S32
TAWKH2610TG	□	26.1	16.1	10.5	5.6	9.0	
TAWKH2620TG	□	26.2	16.2	10.5	5.7	9.0	
TAWKH2630TG	□	26.3	16.2	10.5	5.7	9.0	
TAWKH2640TG	□	26.4	16.2	10.5	5.7	9.0	
TAWKH2650TG	●	26.5	16.1	10.4	5.7	9.0	TAWMN 2600S32
TAWKH2660TG	□	26.6	16.1	10.4	5.7	9.0	
TAWKH2670TG	□	26.7	16.1	10.4	5.7	9.0	
TAWKH2680TG	□	26.8	16.2	10.4	5.8	9.0	
TAWKH2690TG	□	26.9	16.2	10.4	5.8	9.0	
TAWKH2700TG	●	27.0	16.1	10.3	5.8	9.0	TAWLN 2600S32
TAWKH2710TG	□	27.1	16.1	10.3	5.8	9.0	
TAWKH2720TG	□	27.2	16.1	10.3	5.8	9.0	
TAWKH2730TG	□	27.3	16.2	10.3	5.9	9.0	
TAWKH2740TG	□	27.4	16.2	10.3	5.9	9.0	

●：标准库存品 □：预订生产产品
(1盒1片装)

型号	涂层	尺寸 (mm)					对应刀柄
	DP5010	CDI	INSL	LF	PL	S	
TAWKH2750TG	●	27.5	17.2	11.2	6.0	10.0	TAWSN 2800S32
TAWKH2760TG	□	27.6	17.2	11.2	6.0	10.0	
TAWKH2770TG	□	27.7	17.2	11.2	6.0	10.0	
TAWKH2780TG	□	27.8	17.3	11.2	6.1	10.0	
TAWKH2790TG	□	27.9	17.3	11.2	6.1	10.0	
TAWKH2800TG	●	28.0	17.3	11.2	6.1	10.0	
TAWKH2810TG	□	28.1	17.3	11.2	6.1	10.0	
TAWKH2820TG	□	28.2	17.3	11.2	6.1	10.0	
TAWKH2830TG	□	28.3	17.3	11.2	6.1	10.0	
TAWKH2840TG	□	28.4	17.4	11.2	6.2	10.0	TAWMN 2800S32
TAWKH2850TG	●	28.5	17.3	11.1	6.2	10.0	
TAWKH2860TG	□	28.6	17.3	11.1	6.2	10.0	
TAWKH2870TG	□	28.7	17.3	11.1	6.2	10.0	
TAWKH2880TG	□	28.8	17.3	11.1	6.2	10.0	
TAWKH2890TG	□	28.9	17.4	11.1	6.3	10.0	
TAWKH2900TG	●	29.0	17.3	11.0	6.3	10.0	
TAWKH2910TG	□	29.1	17.3	11.0	6.3	10.0	
TAWKH2920TG	□	29.2	17.3	11.0	6.3	10.0	
TAWKH2930TG	□	29.3	17.3	11.0	6.3	10.0	TAWLN 2900S32
TAWKH2940TG	□	29.4	17.3	11.0	6.3	10.0	

型号	涂层	尺寸 (mm)					对应刀柄
	DP5010	CDI	INSL	LF	PL	S	
TAWKH2950TG	●	29.5	17.3	10.9	6.4	10.0	TAWSN 3000S32
TAWKH2960TG	□	29.6	17.3	10.9	6.4	10.0	
TAWKH2970TG	□	29.7	17.3	10.9	6.4	10.0	
TAWKH2980TG	□	29.8	17.3	10.9	6.4	10.0	
TAWKH2990TG	□	29.9	17.3	10.9	6.4	10.0	
TAWKH3000TG	●	30.0	17.3	10.8	6.5	10.0	
TAWKH3010TG	□	30.1	17.3	10.8	6.5	10.0	
TAWKH3020TG	□	30.2	17.3	10.8	6.5	10.0	
TAWKH3030TG	□	30.3	17.3	10.8	6.5	10.0	TAWLN 3000S32
TAWKH3040TG	□	30.4	17.3	10.8	6.5	10.0	

推荐切削条件

工件材料	钻头直径	切削条件 硬度	φ18.5—φ21.4		φ21.5—φ24.4	
			切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)
P	软钢	≤HB180	90 (70—110)	0.25 (0.20—0.30)	100 (80—120)	0.30 (0.25—0.35)
	碳钢	HB180—280	80 (60—100)	0.25 (0.20—0.30)	90 (70—110)	0.30 (0.25—0.35)
	合金钢	HB280—350	70 (50—90)	0.20 (0.15—0.25)	80 (60—100)	0.25 (0.20—0.30)
M	不锈钢	≤HB200	60 (50—70)	0.20 (0.15—0.22)	60 (50—70)	0.20 (0.15—0.22)
K	灰铸铁	抗拉强度 ≤350MPa	120 (60—140)	0.25 (0.20—0.30)	130 (80—150)	0.35 (0.25—0.40)
	球墨铸铁	抗拉强度 ≤450MPa	80 (60—90)	0.25 (0.20—0.30)	90 (60—100)	0.30 (0.25—0.35)

工件材料	钻头直径	切削条件 硬度	φ24.5—φ27.4		φ27.5—φ30.4	
			切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)
P	软钢	≤HB180	110 (80—120)	0.30 (0.25—0.35)	110 (80—120)	0.30 (0.25—0.35)
	碳钢	HB180—280	100 (80—120)	0.30 (0.25—0.35)	100 (80—120)	0.30 (0.25—0.35)
	合金钢	HB280—350	90 (70—110)	0.25 (0.20—0.30)	90 (70—110)	0.25 (0.20—0.30)
M	不锈钢	≤HB200	70 (60—80)	0.25 (0.20—0.28)	70 (60—80)	0.25 (0.20—0.28)
K	灰铸铁	抗拉强度 ≤350MPa	140 (90—160)	0.35 (0.25—0.40)	140 (90—160)	0.40 (0.30—0.45)
	球墨铸铁	抗拉强度 ≤450MPa	100 (80—110)	0.30 (0.25—0.35)	100 (80—110)	0.30 (0.25—0.35)

注1) 使用DC×8用钻头时,请把切削速度降低20%左右。

注2) 使用DC×8用钻头时,推荐预先进行同尺寸的导孔加工。

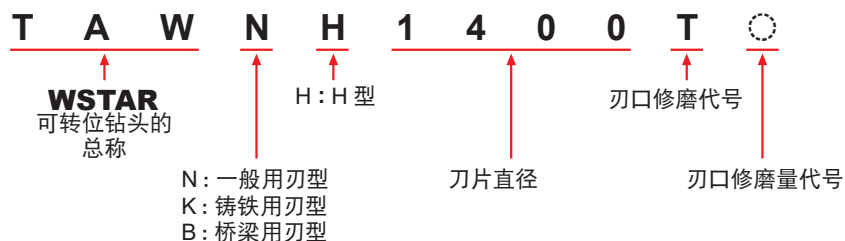
注3) 加工软钢、不锈钢时,推荐H形刃口修磨。

修磨量的选择

若希望订购标准修磨量以外的产品,请在型号后加上如下图所示的刃口修磨量代号。

(修磨量规定)

(刀片型号)



刃口修磨量代号	修磨量 (mm)
F	无
G	0.02—0.05
H	0.05—0.10
无标记(标准品)	0.10—0.15
K	0.15—0.20
S	0.20—0.25
M	0.25—0.30

使用注意事项

刀片安装方法

- 刀片安装前确认将螺钉拧松
- 刀片和刀座的锯齿相对应嵌入
- 用手指轻按刀片的前表面,用扳手拧紧
- 安装后确认刀片和刀座之间没有空隙

请按照以下的扭矩安装夹具螺钉

钻头直径 (mm)	扭矩 (N·m)
14—15	2.0
16—18	2.0
19—21	3.5
22—24	5.5
25—27	8.5
28—30	12.0

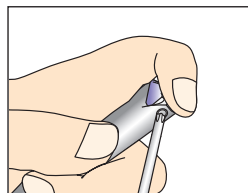


图1

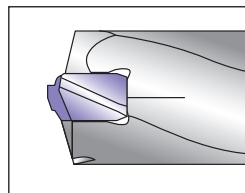


图2

间隙

刀片更换需注意

- 刀座部分的锯齿形槽用风冷等吹干净,当刀柄部分有污垢的时候,使用附带刮板(WPT4405)将污垢除去。

P

M

K

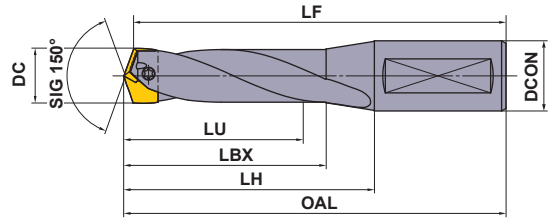
N

S

H

钢

(桥梁用)

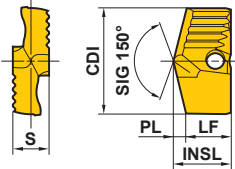


刀柄规格

DC (mm)	钻削孔深 (L/D)	刀柄		尺寸 (mm)						夹紧螺钉	扳手	刮板	防止烧熔剂	适用刀片		
		型号	库存	LU	LBX	LH	OAL	LF	DCON					DC (mm)	型号	库存 VP15TF
24.5	3	TAWSB2500S32	●	76.8	91.3	113.3	173.3	170.0	32	WS406023T	TKY25T	WPT4405	MK1KS	24.5	※TAWBH2450T	●
24.6														24.6	TAWBH2460T	□
24.7	5	TAWMB2500S32	□	125.8	143.3	168.3	228.3	225.0	32	WS406023T	TKY25T	WPT4405	MK1KS	24.7	TAWBH2470T	●
26.5	3	TAWSB2700S32	●	83.1	97.6	118.6	178.6	175.0	32	WS406024T	TKY25T	WPT4405	MK1KS	26.5	※TAWBH2650T	□
26.7	5	TAWMB2700S32	□	136.1	154.6	178.6	238.6	235.0	32	WS406024T	TKY25T	WPT4405	MK1KS	26.7	TAWBH2670T	●

注1) 规格品以外的特殊形状(例如不同直径,长度和带倒角刃等),材料等有什么需求也可商谈。

刀片

外形	型号	库存	尺寸 (mm)					对应刀柄	修磨量 (mm)	形 状
		VP15TF	CDI	INSL	LF	PL	S			
H 型 	TAWBH2450T	●	24.5	15.0	11.7	3.3	9.0	TAWSB2500S32 TAWMB2500S32	0.20—0.25	
	TAWBH2460T	□	24.6	15.0	11.7	3.3	9.0			
	TAWBH2470T	●	24.7	15.0	11.7	3.3	9.0			
	TAWBH2650T	□	26.5	14.9	11.3	3.6	9.0	TAWSB2700S32 TAWMB2700S32		
	TAWBH2670T	●	26.7	14.9	11.3	3.6	9.0			

推荐切削条件

工件材料		钻头直径	φ24.5, φ24.6, φ24.7		φ26.5, φ26.7	
		切削条件 硬度	切削速度 (m/min)	进给量 (mm/rev)	切削速度 (m/min)	进给量 (mm/rev)
P	结构钢	SS400 抗拉强度 ≤400—500MPa	70 (60—80)	0.30 (0.25—0.35)	70 (60—80)	0.30 (0.25—0.35)
		SM490 抗拉强度 ≤490—610MPa	65 (55—75)	0.30 (0.25—0.35)	65 (55—75)	0.30 (0.25—0.35)
		SM570 抗拉强度 ≤570—720MPa	60 (50—70)	0.30 (0.25—0.35)	60 (50—70)	0.30 (0.25—0.35)

●: 标准库存品 □: 预订生产产品
(1盒1片装)

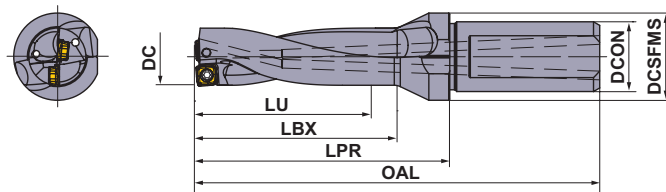
钻孔[可转位钻头]

MVX

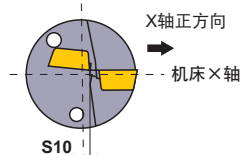
- 外刃CVD&内刃PVD的组合刀片
- 实现了L/D=6深孔加工的高刚性刀体



P	M	K	N	S	H
钢	不锈钢	铸铁	有色金属		高硬度钢



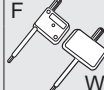
车削加工偏置最大调整量



	加工公差(标准)(mm)		
L/D	ø14.0-ø33.0	ø33.5-ø47.0	ø48.0-ø63.0
2D, 3D	0 + 0.25	0 + 0.3	0 + 0.3
4D, 5D	0 + 0.35	0 + 0.4	0 + 0.45
6D	0 + 0.45	0 + 0.6	

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)						S10 (mm)	刀片型号	夹紧螺钉	扳手
					LU	LBX	LPR	OAL	DCON	DCSFMS				
NEW 14.0	2	MVX1400X2F20	●	2	28	35	50	93	20	25	0.6	SOX05	TPS20-1	TIP06F
NEW 14.0	3	MVX1400X3F20	●	2	42	49	64	107	20	25	0.6	SOX05	TPS20-1	TIP06F
NEW 14.0	4	MVX1400X4F20	●	2	56	63	78	121	20	25	0.6	SOX05	TPS20-1	TIP06F
NEW 14.0	5	MVX1400X5F20	●	2	70	77	92	135	20	25	0.6	SOX05	TPS20-1	TIP06F
NEW 14.5	2	MVX1450X2F20	●	2	29	36	51	94	20	25	0.5	SOX05	TPS20-1	TIP06F
NEW 14.5	3	MVX1450X3F20	●	2	43.5	50.5	65.5	108.5	20	25	0.5	SOX05	TPS20-1	TIP06F
NEW 14.5	4	MVX1450X4F20	●	2	58	65	80	123	20	25	0.5	SOX05	TPS20-1	TIP06F
NEW 14.5	5	MVX1450X5F20	●	2	72.5	79.5	94.5	137.5	20	25	0.5	SOX05	TPS20-1	TIP06F
NEW 15.0	2	MVX1500X2F20	●	2	30	37	52	95	20	25	0.35	SOX05	TPS20-1	TIP06F
NEW 15.0	3	MVX1500X3F20	●	2	45	52	67	110	20	25	0.35	SOX05	TPS20-1	TIP06F
NEW 15.0	4	MVX1500X4F20	●	2	60	67	82	125	20	25	0.35	SOX05	TPS20-1	TIP06F
NEW 15.0	5	MVX1500X5F20	●	2	75	82	97	140	20	25	0.35	SOX05	TPS20-1	TIP06F
NEW 15.5	2	MVX1550X2F20	●	2	31	38	53	96	20	25	0.3	SOX05	TPS20-1	TIP06F
NEW 15.5	3	MVX1550X3F20	●	2	46.5	53.5	68.5	111.5	20	25	0.3	SOX05	TPS20-1	TIP06F
NEW 15.5	4	MVX1550X4F20	●	2	62	69	84	127	20	25	0.3	SOX05	TPS20-1	TIP06F
NEW 15.5	5	MVX1550X5F20	●	2	77.5	84.5	99.5	142.5	20	25	0.3	SOX05	TPS20-1	TIP06F
NEW 16.0	2	MVX1600X2F20	●	2	32	39	54	97	20	25	0.25	SOX05	TPS20-1	TIP06F
NEW 16.0	3	MVX1600X3F20	●	2	48	55	70	113	20	25	0.25	SOX05	TPS20-1	TIP06F
NEW 16.0	4	MVX1600X4F20	●	2	64	71	86	129	20	25	0.25	SOX05	TPS20-1	TIP06F
NEW 16.0	5	MVX1600X5F20	●	2	80	87	102	145	20	25	0.25	SOX05	TPS20-1	TIP06F
NEW 16.5	2	MVX1650X2F20	●	2	33	40	55	98	20	25	0.25	SOX05	TPS20-1	TIP06F
NEW 16.5	3	MVX1650X3F20	●	2	49.5	56.5	71.5	114.5	20	25	0.25	SOX05	TPS20-1	TIP06F
NEW 16.5	4	MVX1650X4F20	●	2	66	73	88	131	20	25	0.25	SOX05	TPS20-1	TIP06F
NEW 16.5	5	MVX1650X5F20	●	2	82.5	89.5	104.5	147.5	20	25	0.25	SOX05	TPS20-1	TIP06F
17.0	2	MVX1700X2F20	●	2	34	41	56	99	20	25	0.5	SOX06	TPS25	TIP07F
17.0	3	MVX1700X3F20	●	2	51	58	73	116	20	25	0.5	SOX06	TPS25	TIP07F
17.0	4	MVX1700X4F20	●	2	68	75	90	133	20	25	0.5	SOX06	TPS25	TIP07F
17.0	5	MVX1700X5F20	●	2	85	92	107	150	20	25	0.5	SOX06	TPS25	TIP07F
17.0	6	MVX1700X6F20	●	2	102	109	124	167	20	25	0.5	SOX06	TPS25	TIP07F
17.5	2	MVX1750X2F25	●	2	35	42	62	112	25	32	0.45	SOX06	TPS25	TIP07F
17.5	3	MVX1750X3F25	●	2	52.5	59.5	79.5	129.5	25	32	0.45	SOX06	TPS25	TIP07F
17.5	4	MVX1750X4F25	●	2	70	77	97	147	25	32	0.45	SOX06	TPS25	TIP07F

※安装扭矩 (N・m) : TPS20-1=0.6, TPS25=1.0

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)						S10 (mm)	刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS				
17.5	5	MVX1750X5F25	●	2	87.5	94.5	114.5	164.5	25	32	0.45	SOX06	TPS25	TIP07F
17.5	6	MVX1750X6F25	●	2	105	112	132	182	25	32	0.45	SOX06	TPS25	TIP07F
18.0	2	MVX1800X2F25	●	2	36	43	63	113	25	32	0.4	SOX06	TPS25	TIP07F
18.0	3	MVX1800X3F25	●	2	54	61	81	131	25	32	0.4	SOX06	TPS25	TIP07F
18.0	4	MVX1800X4F25	●	2	72	79	99	149	25	32	0.4	SOX06	TPS25	TIP07F
18.0	5	MVX1800X5F25	●	2	90	97	117	167	25	32	0.4	SOX06	TPS25	TIP07F
18.0	6	MVX1800X6F25	●	2	108	115	135	185	25	32	0.4	SOX06	TPS25	TIP07F
18.5	2	MVX1850X2F25	●	2	37	44	64	114	25	32	0.35	SOX06	TPS25	TIP07F
18.5	3	MVX1850X3F25	●	2	55.5	62.5	82.5	132.5	25	32	0.35	SOX06	TPS25	TIP07F
18.5	4	MVX1850X4F25	●	2	74	81	101	151	25	32	0.35	SOX06	TPS25	TIP07F
18.5	5	MVX1850X5F25	●	2	92.5	99.5	119.5	169.5	25	32	0.35	SOX06	TPS25	TIP07F
18.5	6	MVX1850X6F25	●	2	111	118	138	188	25	32	0.35	SOX06	TPS25	TIP07F
19.0	2	MVX1900X2F25	●	2	38	45	65	115	25	32	0.3	SOX06	TPS25	TIP07F
19.0	3	MVX1900X3F25	●	2	57	64	84	134	25	32	0.3	SOX06	TPS25	TIP07F
19.0	4	MVX1900X4F25	●	2	76	83	103	153	25	32	0.3	SOX06	TPS25	TIP07F
19.0	5	MVX1900X5F25	●	2	95	102	122	172	25	32	0.3	SOX06	TPS25	TIP07F
19.0	6	MVX1900X6F25	●	2	114	121	141	191	25	32	0.3	SOX06	TPS25	TIP07F
19.5	2	MVX1950X2F25	●	2	39	46	66	116	25	32	0.25	SOX06	TPS25	TIP07F
19.5	3	MVX1950X3F25	●	2	58.5	65.5	85.5	135.5	25	32	0.25	SOX06	TPS25	TIP07F
19.5	4	MVX1950X4F25	●	2	78	85	105	155	25	32	0.25	SOX06	TPS25	TIP07F
19.5	5	MVX1950X5F25	●	2	97.5	104.5	124.5	174.5	25	32	0.25	SOX06	TPS25	TIP07F
19.5	6	MVX1950X6F25	●	2	117	124	144	194	25	32	0.25	SOX06	TPS25	TIP07F
20.0	2	MVX2000X2F25	●	2	40	47	67	117	25	32	0.6	SOX07	TPS3	TIP10F
20.0	3	MVX2000X3F25	●	2	60	67	87	137	25	32	0.6	SOX07	TPS3	TIP10F
20.0	4	MVX2000X4F25	●	2	80	87	107	157	25	32	0.6	SOX07	TPS3	TIP10F
20.0	5	MVX2000X5F25	●	2	100	107	127	177	25	32	0.6	SOX07	TPS3	TIP10F
20.0	6	MVX2000X6F25	●	2	120	127	147	197	25	32	0.6	SOX07	TPS3	TIP10F
20.5	2	MVX2050X2F25	●	2	41	48	68	118	25	32	0.55	SOX07	TPS3	TIP10F
20.5	3	MVX2050X3F25	●	2	61.5	68.5	88.5	138.5	25	32	0.55	SOX07	TPS3	TIP10F
21.0	2	MVX2100X2F25	●	2	42	49	69	119	25	32	0.5	SOX07	TPS3	TIP10F
21.0	3	MVX2100X3F25	●	2	63	70	90	140	25	32	0.5	SOX07	TPS3	TIP10F
21.0	4	MVX2100X4F25	●	2	84	91	111	161	25	32	0.5	SOX07	TPS3	TIP10F
21.0	5	MVX2100X5F25	●	2	105	112	132	182	25	32	0.5	SOX07	TPS3	TIP10F
21.0	6	MVX2100X6F25	●	2	126	133	153	203	25	32	0.5	SOX07	TPS3	TIP10F
21.5	2	MVX2150X2F25	●	2	43	50	70	120	25	32	0.45	SOX07	TPS3	TIP10F
21.5	3	MVX2150X3F25	●	2	64.5	71.5	91.5	141.5	25	32	0.45	SOX07	TPS3	TIP10F
22.0	2	MVX2200X2F25	●	2	44	51	71	121	25	32	0.4	SOX07	TPS3	TIP10F
22.0	3	MVX2200X3F25	●	2	66	73	93	143	25	32	0.4	SOX07	TPS3	TIP10F
22.0	4	MVX2200X4F25	●	2	88	95	115	165	25	32	0.4	SOX07	TPS3	TIP10F
22.0	5	MVX2200X5F25	●	2	110	117	137	187	25	32	0.4	SOX07	TPS3	TIP10F
22.0	6	MVX2200X6F25	●	2	132	139	159	209	25	32	0.4	SOX07	TPS3	TIP10F
22.5	2	MVX2250X2F25	●	2	45	52	72	122	25	32	0.35	SOX07	TPS3	TIP10F
22.5	3	MVX2250X3F25	●	2	67.5	74.5	94.5	144.5	25	32	0.35	SOX07	TPS3	TIP10F
23.0	2	MVX2300X2F25	●	2	46	53	73	123	25	32	0.8	SOX08	TPS351	TIP10W
23.0	3	MVX2300X3F25	●	2	69	76	96	146	25	32	0.8	SOX08	TPS351	TIP10W
23.0	4	MVX2300X4F25	●	2	92	99	119	169	25	32	0.8	SOX08	TPS351	TIP10W
23.0	5	MVX2300X5F25	●	2	115	122	142	192	25	32	0.8	SOX08	TPS351	TIP10W
23.0	6	MVX2300X6F25	●	2	138	145	165	215	25	32	0.8	SOX08	TPS351	TIP10W
23.5	2	MVX2350X2F25	●	2	47	54	74	124	25	32	0.75	SOX08	TPS351	TIP10W
23.5	3	MVX2350X3F25	●	2	70.5	77.5	97.5	147.5	25	32	0.75	SOX08	TPS351	TIP10W

※安装扭矩 (N・m) : TPS25=1.0, TPS3=2.0, TPS351=2.5

刀片详见 > P237
切削条件 > P238
使用要点 > P248

零件 > Q001
技术资料 > R001

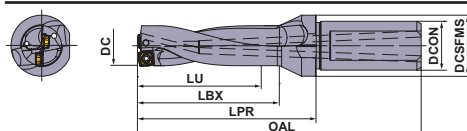
P

钻头

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)						S10 (mm)	刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS				
24.0	2	MVX2400X2F25	●	2	48	55	75	125	25	32	0.7	SOX08	TPS351	TIP10W
24.0	3	MVX2400X3F25	●	2	72	79	99	149	25	32	0.7	SOX08	TPS351	TIP10W
24.0	4	MVX2400X4F25	●	2	96	103	123	173	25	32	0.7	SOX08	TPS351	TIP10W
24.0	5	MVX2400X5F25	●	2	120	127	147	197	25	32	0.7	SOX08	TPS351	TIP10W
24.0	6	MVX2400X6F25	●	2	144	151	171	221	25	32	0.7	SOX08	TPS351	TIP10W
24.5	2	MVX2450X2F25	●	2	49	56	76	126	25	32	0.65	SOX08	TPS351	TIP10W
24.5	3	MVX2450X3F25	●	2	73.5	80.5	100.5	150.5	25	32	0.65	SOX08	TPS351	TIP10W
25.0	2	MVX2500X2F25	●	2	50	57	77	127	25	32	0.6	SOX08	TPS351	TIP10W
25.0	3	MVX2500X3F25	●	2	75	82	102	152	25	32	0.6	SOX08	TPS351	TIP10W
25.0	4	MVX2500X4F25	●	2	100	107	127	177	25	32	0.6	SOX08	TPS351	TIP10W
25.0	5	MVX2500X5F25	●	2	125	132	152	202	25	32	0.6	SOX08	TPS351	TIP10W
25.0	6	MVX2500X6F25	●	2	150	157	177	227	25	32	0.6	SOX08	TPS351	TIP10W
25.5	2	MVX2550X2F25	●	2	51	58	78	128	25	32	0.6	SOX08	TPS351	TIP10W
25.5	3	MVX2550X3F25	●	2	76.5	83.5	103.5	153.5	25	32	0.6	SOX08	TPS351	TIP10W
26.0	2	MVX2600X2F32	●	2	52	59	79	134	32	42	0.5	SOX08	TPS351	TIP10W
26.0	3	MVX2600X3F32	●	2	78	85	105	160	32	42	0.5	SOX08	TPS351	TIP10W
26.0	4	MVX2600X4F32	●	2	104	111	131	186	32	42	0.5	SOX08	TPS351	TIP10W
26.0	5	MVX2600X5F32	●	2	130	137	157	212	32	42	0.5	SOX08	TPS351	TIP10W
26.0	6	MVX2600X6F32	●	2	156	163	183	238	32	42	0.5	SOX08	TPS351	TIP10W
26.5	2	MVX2650X2F32	●	2	53	60	80	135	32	42	0.5	SOX08	TPS351	TIP10W
26.5	3	MVX2650X3F32	●	2	79.5	86.5	106.5	161.5	32	42	0.5	SOX08	TPS351	TIP10W
27.0	2	MVX2700X2F32	●	2	54	61	81	136	32	42	0.45	SOX08	TPS351	TIP10W
27.0	3	MVX2700X3F32	●	2	81	88	108	163	32	42	0.45	SOX08	TPS351	TIP10W
27.0	4	MVX2700X4F32	●	2	108	115	135	190	32	42	0.45	SOX08	TPS351	TIP10W
27.0	5	MVX2700X5F32	●	2	135	142	162	217	32	42	0.45	SOX08	TPS351	TIP10W
27.0	6	MVX2700X6F32	●	2	162	169	189	244	32	42	0.45	SOX08	TPS351	TIP10W
27.5	2	MVX2750X2F32	●	2	55	62	82	137	32	42	0.4	SOX08	TPS351	TIP10W
27.5	3	MVX2750X3F32	●	2	82.5	89.5	109.5	164.5	32	42	0.4	SOX08	TPS351	TIP10W
28.0	2	MVX2800X2F32	●	2	56	63	83	138	32	42	0.85	SOX09	TPS4	TIP15W
28.0	3	MVX2800X3F32	●	2	84	91	111	166	32	42	0.85	SOX09	TPS4	TIP15W
28.0	4	MVX2800X4F32	●	2	112	119	139	194	32	42	0.85	SOX09	TPS4	TIP15W
28.0	5	MVX2800X5F32	●	2	140	147	167	222	32	42	0.85	SOX09	TPS4	TIP15W
28.0	6	MVX2800X6F32	●	2	168	175	195	250	32	42	0.85	SOX09	TPS4	TIP15W
28.5	2	MVX2850X2F32	●	2	57	64	84	139	32	42	0.8	SOX09	TPS4	TIP15W
28.5	3	MVX2850X3F32	●	2	85.5	92.5	112.5	167.5	32	42	0.8	SOX09	TPS4	TIP15W
29.0	2	MVX2900X2F32	●	2	58	65	85	140	32	42	0.75	SOX09	TPS4	TIP15W
29.0	3	MVX2900X3F32	●	2	87	94	114	169	32	42	0.75	SOX09	TPS4	TIP15W
29.0	4	MVX2900X4F32	●	2	116	123	143	198	32	42	0.75	SOX09	TPS4	TIP15W
29.0	5	MVX2900X5F32	●	2	145	152	172	227	32	42	0.75	SOX09	TPS4	TIP15W
29.0	6	MVX2900X6F32	●	2	174	181	201	256	32	42	0.75	SOX09	TPS4	TIP15W
29.5	2	MVX2950X2F32	●	2	59	66	86	141	32	42	0.7	SOX09	TPS4	TIP15W
29.5	3	MVX2950X3F32	●	2	88.5	95.5	115.5	170.5	32	42	0.7	SOX09	TPS4	TIP15W
30.0	2	MVX3000X2F32	●	2	60	67	87	142	32	42	0.65	SOX09	TPS4	TIP15W
30.0	3	MVX3000X3F32	●	2	90	97	117	172	32	42	0.65	SOX09	TPS4	TIP15W
30.0	4	MVX3000X4F32	●	2	120	127	147	202	32	42	0.65	SOX09	TPS4	TIP15W
30.0	5	MVX3000X5F32	●	2	150	157	177	232	32	42	0.65	SOX09	TPS4	TIP15W
30.0	6	MVX3000X6F32	●	2	180	187	207	262	32	42	0.65	SOX09	TPS4	TIP15W
30.5	3	MVX3050X3F32	●	2	91.5	98.5	118.5	173.5	32	42	0.6	SOX09	TPS4	TIP15W
31.0	2	MVX3100X2F40	●	2	62	69	89	154	40	50	0.55	SOX09	TPS4	TIP15W
31.0	3	MVX3100X3F40	●	2	93	100	120	185	40	50	0.55	SOX09	TPS4	TIP15W

※安装扭矩 (N・m) : TPS351=2.5, TPS4=3.5

● : 标准库存品



DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)						S10 (mm)	刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS				
31.0	4	MVX3100X4F40	●	2	124	131	151	216	40	50	0.55	SOX09	TPS4	TIP15W
31.0	5	MVX3100X5F40	●	2	155	162	182	247	40	50	0.55	SOX09	TPS4	TIP15W
31.0	6	MVX3100X6F40	●	2	186	193	213	278	40	50	0.55	SOX09	TPS4	TIP15W
31.5	3	MVX3150X3F40	●	2	94.5	101.5	121.5	186.5	40	50	0.55	SOX09	TPS4	TIP15W
32.0	2	MVX3200X2F40	●	2	64	71	91	156	40	50	0.45	SOX09	TPS4	TIP15W
32.0	3	MVX3200X3F40	●	2	96	103	123	188	40	50	0.45	SOX09	TPS4	TIP15W
32.0	4	MVX3200X4F40	●	2	128	135	155	220	40	50	0.45	SOX09	TPS4	TIP15W
32.0	5	MVX3200X5F40	●	2	160	167	187	252	40	50	0.45	SOX09	TPS4	TIP15W
32.0	6	MVX3200X6F40	●	2	192	199	219	284	40	50	0.45	SOX09	TPS4	TIP15W
32.5	3	MVX3250X3F40	●	2	97.5	104.5	124.5	189.5	40	50	0.45	SOX09	TPS4	TIP15W
33.0	2	MVX3300X2F40	●	2	66	73	93	158	40	50	0.4	SOX09	TPS4	TIP15W
33.0	3	MVX3300X3F40	●	2	99	106	126	191	40	50	0.4	SOX09	TPS4	TIP15W
33.0	4	MVX3300X4F40	●	2	132	139	159	224	40	50	0.4	SOX09	TPS4	TIP15W
33.0	5	MVX3300X5F40	●	2	165	172	192	257	40	50	0.4	SOX09	TPS4	TIP15W
33.0	6	MVX3300X6F40	●	2	198	205	225	290	40	50	0.4	SOX09	TPS4	TIP15W
33.5	3	MVX3350X3F40	●	2	100.5	107.5	127.5	192.5	40	50	1.15	SOX11	TPS43	TIP15W
34.0	2	MVX3400X2F40	●	2	68	75	105	170	40	50	1.11	SOX11	TPS43	TIP15W
34.0	3	MVX3400X3F40	●	2	102	109	139	204	40	50	1.11	SOX11	TPS43	TIP15W
34.0	4	MVX3400X4F40	●	2	136	143	173	238	40	50	1.11	SOX11	TPS43	TIP15W
34.0	5	MVX3400X5F40	●	2	170	177	207	272	40	50	1.11	SOX11	TPS43	TIP15W
34.0	6	MVX3400X6F40	●	2	204	211	241	306	40	50	1.1	SOX11	TPS43	TIP15W
34.5	3	MVX3450X3F40	●	2	103.5	110.5	140.5	205.5	40	50	1.08	SOX11	TPS43	TIP15W
35.0	2	MVX3500X2F40	●	2	70	77	107	172	40	50	1.03	SOX11	TPS43	TIP15W
35.0	3	MVX3500X3F40	●	2	105	112	142	207	40	50	1.03	SOX11	TPS43	TIP15W
35.0	4	MVX3500X4F40	●	2	140	147	177	242	40	50	1.03	SOX11	TPS43	TIP15W
35.0	5	MVX3500X5F40	●	2	175	182	212	277	40	50	1.03	SOX11	TPS43	TIP15W
35.0	6	MVX3500X6F40	●	2	210	217	247	312	40	50	1.02	SOX11	TPS43	TIP15W
35.5	3	MVX3550X3F40	●	2	106.5	113.5	143.5	208.5	40	50	0.99	SOX11	TPS43	TIP15W
36.0	2	MVX3600X2F40	●	2	72	79	109	174	40	50	0.95	SOX11	TPS43	TIP15W
36.0	3	MVX3600X3F40	●	2	108	115	145	210	40	50	0.95	SOX11	TPS43	TIP15W
36.0	4	MVX3600X4F40	●	2	144	151	181	246	40	50	0.95	SOX11	TPS43	TIP15W
36.0	5	MVX3600X5F40	●	2	180	187	217	282	40	50	0.95	SOX11	TPS43	TIP15W
36.0	6	MVX3600X6F40	●	2	216	223	253	318	40	50	0.94	SOX11	TPS43	TIP15W
37.0	2	MVX3700X2F40	●	2	74	81	111	176	40	50	0.87	SOX11	TPS43	TIP15W
37.0	3	MVX3700X3F40	●	2	111	118	148	213	40	50	0.87	SOX11	TPS43	TIP15W
37.0	4	MVX3700X4F40	●	2	148	155	185	250	40	50	0.87	SOX11	TPS43	TIP15W
37.0	5	MVX3700X5F40	●	2	185	192	222	287	40	50	0.87	SOX11	TPS43	TIP15W
37.0	6	MVX3700X6F40	●	2	222	229	259	324	40	50	0.86	SOX11	TPS43	TIP15W
38.0	2	MVX3800X2F40	●	2	76	83	113	178	40	50	0.79	SOX11	TPS43	TIP15W
38.0	3	MVX3800X3F40	●	2	114	121	151	216	40	50	0.79	SOX11	TPS43	TIP15W
38.0	4	MVX3800X4F40	●	2	152	159	189	254	40	50	0.79	SOX11	TPS43	TIP15W
38.0	5	MVX3800X5F40	●	2	190	197	227	292	40	50	0.79	SOX11	TPS43	TIP15W
38.0	6	MVX3800X6F40	●	2	228	235	265	330	40	50	0.78	SOX11	TPS43	TIP15W
39.0	2	MVX3900X2F40	●	2	78	85	115	180	40	50	0.71	SOX11	TPS43	TIP15W
39.0	3	MVX3900X3F40	●	2	117	124	154	219	40	50	0.71	SOX11	TPS43	TIP15W
39.0	4	MVX3900X4F40	●	2	156	163	193	258	40	50	0.71	SOX11	TPS43	TIP15W
39.0	5	MVX3900X5F40	●	2	195	202	232	297	40	50	0.71	SOX11	TPS43	TIP15W
39.0	6	MVX3900X6F40	●	2	234	241	271	336	40	50	0.7	SOX11	TPS43	TIP15W
40.0	2	MVX4000X2F40	●	2	80	87	117	182	40	50	1.46	SOX13	TPS43	TIP15W
40.0	3	MVX4000X3F40	●	2	120	127	157	222	40	50	1.46	SOX13	TPS43	TIP15W

※安装扭矩 (N·m) : TPS4=3.5, TPS43=3.5

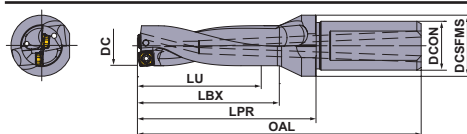
刀片详见 > P237
切削条件 > P238
使用要点 > P248

零件 > Q001
技术资料 > R001

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)						S10 (mm)	刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS				
40.0	4	MVX4000X4F40	●	2	160	167	197	262	40	50	1.46	SOX13	TPS43	TIP15W
40.0	5	MVX4000X5F40	●	2	200	207	237	302	40	50	1.46	SOX13	TPS43	TIP15W
40.0	6	MVX4000X6F40	●	2	240	247	277	342	40	50	1.45	SOX13	TPS43	TIP15W
41.0	2	MVX4100X2F40	●	2	82	89	119	184	40	50	1.36	SOX13	TPS43	TIP15W
41.0	3	MVX4100X3F40	●	2	123	130	160	225	40	50	1.36	SOX13	TPS43	TIP15W
41.0	4	MVX4100X4F40	●	2	164	171	201	266	40	50	1.36	SOX13	TPS43	TIP15W
41.0	5	MVX4100X5F40	●	2	205	212	242	307	40	50	1.36	SOX13	TPS43	TIP15W
41.0	6	MVX4100X6F40	●	2	246	253	283	348	40	50	1.35	SOX13	TPS43	TIP15W
42.0	2	MVX4200X2F40	●	2	84	91	121	186	40	50	1.27	SOX13	TPS43	TIP15W
42.0	3	MVX4200X3F40	●	2	126	133	163	228	40	50	1.27	SOX13	TPS43	TIP15W
42.0	4	MVX4200X4F40	●	2	168	175	205	270	40	63	1.27	SOX13	TPS43	TIP15W
42.0	4	MVX4200X4F50	●	2	168	175	205	280	50	63	1.27	SOX13	TPS43	TIP15W
42.0	5	MVX4200X5F40	●	2	210	217	247	312	40	63	1.27	SOX13	TPS43	TIP15W
42.0	5	MVX4200X5F50	●	2	210	217	247	322	50	63	1.27	SOX13	TPS43	TIP15W
42.0	6	MVX4200X6F40	●	2	252	259	289	354	40	63	1.27	SOX13	TPS43	TIP15W
42.0	6	MVX4200X6F50	●	2	252	259	289	364	50	63	1.26	SOX13	TPS43	TIP15W
43.0	2	MVX4300X2F40	●	2	86	93	123	188	40	50	1.18	SOX13	TPS43	TIP15W
43.0	3	MVX4300X3F40	●	2	129	136	166	231	40	50	1.18	SOX13	TPS43	TIP15W
43.0	4	MVX4300X4F40	●	2	172	179	209	274	40	63	1.18	SOX13	TPS43	TIP15W
43.0	4	MVX4300X4F50	●	2	172	179	209	284	50	63	1.18	SOX13	TPS43	TIP15W
43.0	5	MVX4300X5F40	●	2	215	222	252	317	40	63	1.18	SOX13	TPS43	TIP15W
43.0	5	MVX4300X5F50	●	2	215	222	252	327	50	63	1.18	SOX13	TPS43	TIP15W
43.0	6	MVX4300X6F40	●	2	258	265	295	360	40	63	1.17	SOX13	TPS43	TIP15W
43.0	6	MVX4300X6F50	●	2	258	265	295	370	50	63	1.17	SOX13	TPS43	TIP15W
44.0	2	MVX4400X2F40	●	2	88	95	125	190	40	50	1.08	SOX13	TPS43	TIP15W
44.0	3	MVX4400X3F40	●	2	132	139	169	234	40	50	1.08	SOX13	TPS43	TIP15W
44.0	4	MVX4400X4F40	●	2	176	183	213	278	40	63	1.08	SOX13	TPS43	TIP15W
44.0	4	MVX4400X4F50	●	2	176	183	213	288	50	63	1.08	SOX13	TPS43	TIP15W
44.0	5	MVX4400X5F40	●	2	220	227	257	322	40	63	1.08	SOX13	TPS43	TIP15W
44.0	5	MVX4400X5F50	●	2	220	227	257	332	50	63	1.08	SOX13	TPS43	TIP15W
45.0	2	MVX4500X2F40	●	2	90	97	127	192	40	50	0.99	SOX13	TPS43	TIP15W
45.0	3	MVX4500X3F40	●	2	135	142	172	237	40	50	0.99	SOX13	TPS43	TIP15W
45.0	4	MVX4500X4F40	●	2	180	187	217	282	40	63	0.99	SOX13	TPS43	TIP15W
45.0	4	MVX4500X4F50	●	2	180	187	217	292	50	63	0.99	SOX13	TPS43	TIP15W
45.0	5	MVX4500X5F40	●	2	225	232	262	327	40	63	0.99	SOX13	TPS43	TIP15W
45.0	5	MVX4500X5F50	●	2	225	232	262	337	50	63	0.99	SOX13	TPS43	TIP15W
46.0	2	MVX4600X2F40	●	2	92	99	129	194	40	50	0.89	SOX13	TPS43	TIP15W
46.0	3	MVX4600X3F40	●	2	138	145	175	240	40	50	0.89	SOX13	TPS43	TIP15W
46.0	4	MVX4600X4F40	●	2	184	191	221	286	40	63	0.89	SOX13	TPS43	TIP15W
46.0	4	MVX4600X4F50	●	2	184	191	221	296	50	63	0.89	SOX13	TPS43	TIP15W
46.0	5	MVX4600X5F40	●	2	230	237	267	332	40	63	0.89	SOX13	TPS43	TIP15W
46.0	5	MVX4600X5F50	●	2	230	237	267	342	50	63	0.89	SOX13	TPS43	TIP15W
47.0	2	MVX4700X2F40	●	2	94	101	141	206	40	63	1.9	SOX16	TPS54	TIP25D
47.0	3	MVX4700X3F40	●	2	141	148	188	253	40	63	1.9	SOX16	TPS54	TIP25D
47.0	4	MVX4700X4F40	●	2	188	195	235	300	40	63	1.9	SOX16	TPS54	TIP25D
47.0	4	MVX4700X4F50	●	2	188	195	235	310	50	63	1.9	SOX16	TPS54	TIP25D
47.0	5	MVX4700X5F40	●	2	235	242	282	347	40	63	1.9	SOX16	TPS54	TIP25D
47.0	5	MVX4700X5F50	●	2	235	242	282	357	50	63	1.9	SOX16	TPS54	TIP25D
48.0	2	MVX4800X2F40	●	2	96	103	143	208	40	63	1.8	SOX16	TPS54	TIP25D
48.0	3	MVX4800X3F40	●	2	144	151	191	256	40	63	1.8	SOX16	TPS54	TIP25D

※安装扭矩 (N・m) : TPS43=3.5, TPS54=7.5

● : 标准库存品



DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)						S10 (mm)	刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS			夹紧螺钉	扳手
48.0	4	MVX4800X4F40	●	2	192	199	239	304	40	63	1.8	SOX16	TPS54	TIP25D
48.0	4	MVX4800X4F50	●	2	192	199	239	314	50	63	1.8	SOX16	TPS54	TIP25D
48.0	5	MVX4800X5F40	●	2	240	247	287	352	40	63	1.8	SOX16	TPS54	TIP25D
48.0	5	MVX4800X5F50	●	2	240	247	287	362	50	63	1.8	SOX16	TPS54	TIP25D
49.0	2	MVX4900X2F40	●	2	98	105	145	210	40	63	1.7	SOX16	TPS54	TIP25D
49.0	3	MVX4900X3F40	●	2	147	154	194	259	40	63	1.7	SOX16	TPS54	TIP25D
49.0	4	MVX4900X4F40	●	2	196	203	243	308	40	63	1.7	SOX16	TPS54	TIP25D
49.0	4	MVX4900X4F50	●	2	196	203	243	318	50	63	1.7	SOX16	TPS54	TIP25D
49.0	5	MVX4900X5F40	●	2	245	252	292	357	40	63	1.7	SOX16	TPS54	TIP25D
49.0	5	MVX4900X5F50	●	2	245	252	292	367	50	63	1.7	SOX16	TPS54	TIP25D
50.0	2	MVX5000X2F40	●	2	100	107	147	212	40	63	1.6	SOX16	TPS54	TIP25D
50.0	3	MVX5000X3F40	●	2	150	157	197	262	40	63	1.6	SOX16	TPS54	TIP25D
50.0	4	MVX5000X4F40	●	2	200	207	247	312	40	63	1.6	SOX16	TPS54	TIP25D
50.0	4	MVX5000X4F50	●	2	200	207	247	322	50	63	1.6	SOX16	TPS54	TIP25D
50.0	5	MVX5000X5F40	●	2	250	257	297	362	40	63	1.6	SOX16	TPS54	TIP25D
50.0	5	MVX5000X5F50	●	2	250	257	297	372	50	63	1.6	SOX16	TPS54	TIP25D
51.0	2	MVX5100X2F40	●	2	102	109	149	214	40	63	1.5	SOX16	TPS54	TIP25D
51.0	3	MVX5100X3F40	●	2	153	160	200	265	40	63	1.5	SOX16	TPS54	TIP25D
51.0	4	MVX5100X4F40	●	2	204	211	251	316	40	63	1.5	SOX16	TPS54	TIP25D
51.0	4	MVX5100X4F50	●	2	204	211	251	326	50	63	1.5	SOX16	TPS54	TIP25D
51.0	5	MVX5100X5F40	●	2	255	262	302	367	40	63	1.5	SOX16	TPS54	TIP25D
51.0	5	MVX5100X5F50	●	2	255	262	302	377	50	63	1.5	SOX16	TPS54	TIP25D
52.0	2	MVX5200X2F40	●	2	104	111	151	216	40	63	1.39	SOX16	TPS54	TIP25D
52.0	3	MVX5200X3F40	●	2	156	163	203	268	40	63	1.39	SOX16	TPS54	TIP25D
52.0	4	MVX5200X4F40	●	2	208	215	255	320	40	63	1.39	SOX16	TPS54	TIP25D
52.0	4	MVX5200X4F50	●	2	208	215	255	330	50	63	1.39	SOX16	TPS54	TIP25D
52.0	5	MVX5200X5F40	●	2	260	267	307	372	40	63	1.39	SOX16	TPS54	TIP25D
52.0	5	MVX5200X5F50	●	2	260	267	307	382	50	63	1.39	SOX16	TPS54	TIP25D
53.0	2	MVX5300X2F40	●	2	106	113	153	218	40	63	1.29	SOX16	TPS54	TIP25D
53.0	3	MVX5300X3F40	●	2	159	166	206	271	40	63	1.29	SOX16	TPS54	TIP25D
53.0	4	MVX5300X4F40	●	2	212	219	259	324	40	63	1.29	SOX16	TPS54	TIP25D
53.0	4	MVX5300X4F50	●	2	212	219	259	334	50	63	1.29	SOX16	TPS54	TIP25D
53.0	5	MVX5300X5F40	●	2	265	272	312	377	40	63	1.29	SOX16	TPS54	TIP25D
53.0	5	MVX5300X5F50	●	2	265	272	312	387	50	63	1.29	SOX16	TPS54	TIP25D
54.0	2	MVX5400X2F40	●	2	108	115	155	220	40	63	1.19	SOX16	TPS54	TIP25D
54.0	3	MVX5400X3F40	●	2	162	169	209	274	40	63	1.19	SOX16	TPS54	TIP25D
54.0	4	MVX5400X4F40	●	2	216	223	263	328	40	63	1.19	SOX16	TPS54	TIP25D
54.0	4	MVX5400X4F50	●	2	216	223	263	338	50	63	1.19	SOX16	TPS54	TIP25D
54.0	5	MVX5400X5F40	●	2	270	277	317	382	40	63	1.19	SOX16	TPS54	TIP25D
54.0	5	MVX5400X5F50	●	2	270	277	317	392	50	63	1.19	SOX16	TPS54	TIP25D
55.0	2	MVX5500X2F40	●	2	110	117	157	222	40	63	1.08	SOX16	TPS54	TIP25D
55.0	3	MVX5500X3F40	●	2	165	172	212	277	40	63	1.08	SOX16	TPS54	TIP25D
55.0	4	MVX5500X4F40	●	2	220	227	267	332	40	63	1.08	SOX16	TPS54	TIP25D
55.0	4	MVX5500X4F50	●	2	220	227	267	342	50	63	1.08	SOX16	TPS54	TIP25D
55.0	5	MVX5500X5F40	●	2	275	282	322	387	40	63	1.08	SOX16	TPS54	TIP25D
55.0	5	MVX5500X5F50	●	2	275	282	322	397	50	63	1.08	SOX16	TPS54	TIP25D
56.0	2	MVX5600X2F40	●	2	112	119	159	224	40	63	0.98	SOX16	TPS54	TIP25D
56.0	3	MVX5600X3F40	●	2	168	175	215	280	40	63	0.98	SOX16	TPS54	TIP25D
56.0	4	MVX5600X4F40	●	2	224	231	271	336	40	63	0.98	SOX16	TPS54	TIP25D
56.0	4	MVX5600X4F50	●	2	224	231	271	346	50	63	0.98	SOX16	TPS54	TIP25D

※安装扭矩 (N·m) : TPS54=7.5

刀片详见 > P237
切削条件 > P238
使用要点 > P248

零件 > Q001
技术资料 > R001

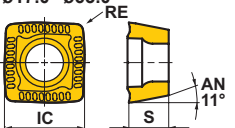
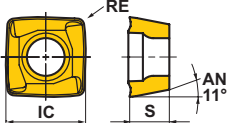
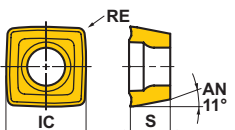
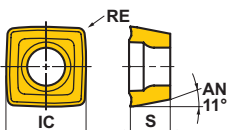
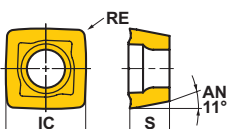
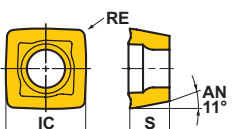
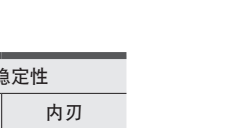
P

钻头

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)						S10 (mm)	刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS				
56.0	5	MVX5600X5F40	●	2	280	287	327	392	40	63	0.98	SOX16	TPS54	TIP25D
56.0	5	MVX5600X5F50	●	2	280	287	327	402	50	63	0.98	SOX16	TPS54	TIP25D
57.0	2	MVX5700X2F40	●	2	114	121	161	226	40	68	1.47	SOX18	TPS54	TIP25D
57.0	3	MVX5700X3F40	●	2	171	178	218	283	40	68	1.47	SOX18	TPS54	TIP25D
57.0	4	MVX5700X4F40	●	2	228	235	275	340	40	68	1.47	SOX18	TPS54	TIP25D
57.0	4	MVX5700X4F50	●	2	228	235	275	350	50	68	1.47	SOX18	TPS54	TIP25D
57.0	5	MVX5700X5F40	●	2	285	292	332	397	40	68	1.47	SOX18	TPS54	TIP25D
57.0	5	MVX5700X5F50	●	2	285	292	332	407	50	68	1.47	SOX18	TPS54	TIP25D
58.0	2	MVX5800X2F40	●	2	116	123	163	228	40	68	1.37	SOX18	TPS54	TIP25D
58.0	3	MVX5800X3F40	●	2	174	181	221	286	40	68	1.37	SOX18	TPS54	TIP25D
58.0	4	MVX5800X4F40	●	2	232	239	279	344	40	68	1.37	SOX18	TPS54	TIP25D
58.0	4	MVX5800X4F50	●	2	232	239	279	354	50	68	1.37	SOX18	TPS54	TIP25D
58.0	5	MVX5800X5F40	●	2	290	297	337	402	40	68	1.37	SOX18	TPS54	TIP25D
58.0	5	MVX5800X5F50	●	2	290	297	337	412	50	68	1.37	SOX18	TPS54	TIP25D
59.0	2	MVX5900X2F40	●	2	118	125	165	230	40	68	1.26	SOX18	TPS54	TIP25D
59.0	3	MVX5900X3F40	●	2	177	184	224	289	40	68	1.26	SOX18	TPS54	TIP25D
59.0	4	MVX5900X4F40	●	2	236	243	283	348	40	68	1.26	SOX18	TPS54	TIP25D
59.0	4	MVX5900X4F50	●	2	236	243	283	358	50	68	1.26	SOX18	TPS54	TIP25D
59.0	5	MVX5900X5F40	●	2	295	302	342	407	40	68	1.26	SOX18	TPS54	TIP25D
59.0	5	MVX5900X5F50	●	2	295	302	342	417	50	68	1.26	SOX18	TPS54	TIP25D
60.0	2	MVX6000X2F40	●	2	120	127	167	232	40	68	1.16	SOX18	TPS54	TIP25D
60.0	3	MVX6000X3F40	●	2	180	187	227	292	40	68	1.16	SOX18	TPS54	TIP25D
60.0	4	MVX6000X4F40	●	2	240	247	287	352	40	68	1.16	SOX18	TPS54	TIP25D
60.0	4	MVX6000X4F50	●	2	240	247	287	362	50	68	1.16	SOX18	TPS54	TIP25D
60.0	5	MVX6000X5F40	●	2	300	307	347	412	40	68	1.16	SOX18	TPS54	TIP25D
60.0	5	MVX6000X5F50	●	2	300	307	347	422	50	68	1.16	SOX18	TPS54	TIP25D
61.0	2	MVX6100X2F40	●	2	122	129	169	234	40	68	1.05	SOX18	TPS54	TIP25D
61.0	3	MVX6100X3F40	●	2	183	190	230	295	40	68	1.05	SOX18	TPS54	TIP25D
61.0	4	MVX6100X4F40	●	2	244	251	291	356	40	68	1.05	SOX18	TPS54	TIP25D
61.0	4	MVX6100X4F50	●	2	244	251	291	366	50	68	1.05	SOX18	TPS54	TIP25D
61.0	5	MVX6100X5F40	●	2	305	312	352	417	40	68	1.05	SOX18	TPS54	TIP25D
61.0	5	MVX6100X5F50	●	2	305	312	352	427	50	68	1.05	SOX18	TPS54	TIP25D
62.0	2	MVX6200X2F40	●	2	124	131	171	236	40	68	0.95	SOX18	TPS54	TIP25D
62.0	3	MVX6200X3F40	●	2	186	193	233	298	40	68	0.95	SOX18	TPS54	TIP25D
62.0	4	MVX6200X4F40	●	2	248	255	295	360	40	68	0.95	SOX18	TPS54	TIP25D
62.0	4	MVX6200X4F50	●	2	248	255	295	370	50	68	0.95	SOX18	TPS54	TIP25D
62.0	5	MVX6200X5F40	●	2	310	317	357	422	40	68	0.95	SOX18	TPS54	TIP25D
62.0	5	MVX6200X5F50	●	2	310	317	357	432	50	68	0.95	SOX18	TPS54	TIP25D
63.0	2	MVX6300X2F40	●	2	126	133	173	238	40	68	0.85	SOX18	TPS54	TIP25D
63.0	3	MVX6300X3F40	●	2	189	196	236	301	40	68	0.85	SOX18	TPS54	TIP25D
63.0	4	MVX6300X4F40	●	2	252	259	299	364	40	68	0.85	SOX18	TPS54	TIP25D
63.0	4	MVX6300X4F50	●	2	252	259	299	374	50	68	0.85	SOX18	TPS54	TIP25D
63.0	5	MVX6300X5F40	●	2	315	322	362	427	40	68	0.85	SOX18	TPS54	TIP25D
63.0	5	MVX6300X5F50	●	2	315	322	362	437	50	68	0.85	SOX18	TPS54	TIP25D

※安装扭矩 (N・m) : TPS54=7.5

刀片

外形	对应钻头直径	刀片型号	IC	S	RE	涂层					形状
						MC5020	MC1020	VP15TF	DP8020	TF15	
UM   通用 内刃外刃用	ø14.0—ø16.5	SOMX052704-UM	5.0	2.7	0.4	●	●	●			ø14.0—ø16.5 
	ø17.0—ø19.5	SOMX063005-UM	6.0	3.0	0.5	●	●	●			
	ø20.0—ø22.5	SOMX073505-UM	7.0	3.5	0.5	●	●	●			ø17.0—ø63.0 
	ø23.0—ø27.5	SOMX084005-UM	8.3	4.0	0.5	●	●	●			
	ø28.0—ø33.0	SOMX094506-UM	9.7	4.5	0.6	●	●	●			
	ø33.5—ø39.0	SOMX115506-UM	11.6	5.5	0.6	●	●	●			
	ø40.0—ø46.0	SOMX136008-UM	13.8	6.0	0.8	●	●	●			
	ø47.0—ø56.0	SOMX166508-UM	16.5	6.5	0.8	●	●	●			
US  不锈钢加工内刃用	ø17.0—ø19.5	SOMX063005-US	6.0	3.0	0.5			●			
	ø20.0—ø22.5	SOMX073505-US	7.0	3.5	0.5			●			
	ø23.0—ø27.5	SOMX084005-US	8.3	4.0	0.5			●			
	ø28.0—ø33.0	SOMX094506-US	9.7	4.5	0.6			●			
	ø33.5—ø39.0	SOMX115506-US	11.6	5.5	0.6			●			
	ø40.0—ø46.0	SOMX136008-US	13.8	6.0	0.8			●			
	ø47.0—ø56.0	SOMX166508-US	16.5	6.5	0.8			●			
	ø57.0—ø63.0	SOMX187008-US	18.2	7.0	0.8			●			
UH  刀尖强化型内刃用	ø17.0—ø19.5	SOMX062905-UH	6.0	2.9	0.5				●		
	ø20.0—ø22.5	SOMX073405-UH	7.0	3.4	0.5				●		
	ø23.0—ø27.5	SOMX083905-UH	8.3	3.9	0.5				●		
	ø28.0—ø33.0	SOMX094406-UH	9.7	4.4	0.6				●		
	ø33.5—ø39.0	SOMX115406-UH	11.6	5.4	0.6				●		
	ø40.0—ø46.0	SOMX135908-UH	13.8	5.9	0.8				●		
	ø47.0—ø56.0	SOMX166408-UH	16.5	6.4	0.8				●		
	ø57.0—ø63.0	SOMX186908-UH	18.2	6.9	0.8				●		
UN  铝合金 内刃外刃用	ø17.0—ø19.5	SOGX063005-UN	6.0	3.0	0.5					●	
	ø20.0—ø22.5	SOGX073505-UN	7.0	3.5	0.5					●	
	ø23.0—ø27.5	SOGX084005-UN	8.3	4.0	0.5					●	
	ø28.0—ø33.0	SOGX094506-UN	9.7	4.5	0.6					●	
	ø33.5—ø39.0	SOGX115506-UN	11.6	5.5	0.6					●	
	ø40.0—ø46.0	SOGX136008-UN	13.8	6.0	0.8					●	
	ø47.0—ø56.0	SOGX166508-UN	16.5	6.5	0.8					●	
	ø57.0—ø63.0	SOGX187008-UN	18.2	7.0	0.8					●	

注1) MC1020、MC5020为外刃专用材料。DP8020为内刃专用。

刀片使用分类

	第一推荐		重视稳定性	
	外刃	内刃	外刃	内刃
P 软钢 合金钢	MC1020 	VP15TF 	VP15TF 	VP15TF 
	UM断屑槽	UM断屑槽	UM断屑槽	UM断屑槽
M 不锈钢	MC1020 	VP15TF 	VP15TF 	VP15TF 
	UM断屑槽	US断屑槽	UM断屑槽	US断屑槽
K 铸铁	MC5020 	VP15TF 	VP15TF 	VP15TF 
	UM断屑槽	UM断屑槽	UM断屑槽	UM断屑槽

	第一推荐		重视稳定性	
	外刃	内刃	外刃	内刃
H 高速钢	MC1020 	DP8020 	VP15TF 	DP8020 
	UM断屑槽	UH断屑槽	UM断屑槽	UH断屑槽
N 合金钢	TF15 	TF15 		
	UN断屑槽	UN断屑槽		

P

钻头

推荐切削条件

工件材料		硬度	切削速度 (m/min)	内刃 断屑槽	φ14—φ16.5mm			
					每转进给量 (mm/rev)			
					L/D=2, 3	4	5	
P	软钢 (SS400, S10C等)	≤180HB	200 (180—235)	UM	0.05 (0.04—0.06)	0.05 (0.04—0.06)	0.05 (0.04—0.06)	
				UH	—	—	—	
	碳钢·合金钢 (S45C, SCM440等)	180—280HB	140 (115—180)	UM	0.08 (0.06—0.14)	0.08 (0.06—0.09)	0.08 (0.06—0.09)	
				UH	—	—	—	
	碳钢·合金钢 (SNCM439等)	280—350HB	100 (75—140)	UM	0.08 (0.06—0.14)	0.08 (0.06—0.09)	0.08 (0.06—0.09)	
				UH	—	—	—	
	合金工具钢 (SKD, SKT等)	≤350HB	135 (100—170)	UM	0.08 (0.06—0.14)	0.08 (0.06—0.09)	0.08 (0.06—0.09)	
				UH	—	—	—	
M	奥氏体类不锈钢 (SUS304, SUS316等)	≤200HB	130 (80—180)	US	—	—	—	
				UM	0.06 (0.04—0.08)	0.05 (0.04—0.06)	0.05 (0.04—0.06)	
	奥氏体类不锈钢 (SUS304LN, SUS316LN等)	>200HB	130 (80—180)	US	—	—	—	
				UM	0.06 (0.04—0.08)	0.05 (0.04—0.06)	0.05 (0.04—0.06)	
	铁素体、 马氏体类不锈钢 (SUS410, SUS430等)	≤200HB	120 (80—165)	US	—	—	—	
				UM	0.06 (0.04—0.08)	0.05 (0.04—0.06)	0.05 (0.04—0.06)	
	铁素体、 马氏体类不锈钢 (SUS431, SUS420J2等)	>200HB	120 (80—165)	US	—	—	—	
				UM	0.06 (0.04—0.08)	0.05 (0.04—0.06)	0.05 (0.04—0.06)	
K	灰铸铁 (FC300等)	抗拉强度 ≤350MPa	160 (130—195)	UM	0.10 (0.06—0.14)	0.08 (0.06—0.10)	0.08 (0.06—0.10)	
	球墨铸铁 (FCD450等)	抗拉强度 ≤450MPa	100 (80—135)	UM	0.10 (0.06—0.14)	0.08 (0.06—0.10)	0.08 (0.06—0.10)	
	球墨铸铁 (FCD700等)	抗拉强度 ≤800MPa	100 (70—125)	UM	0.08 (0.06—0.12)	0.07 (0.06—0.08)	0.07 (0.06—0.08)	
N	铝合金 (A6061, A7075等)	Si<5%	200 (100—350)	UN	—	—	—	
	铝合金 (AC4B等)	5%≤Si≤10%	150 (100—200)	UN	—	—	—	
	铝合金 (ADC12, A390等)	Si>10%	150 (100—200)	UN	—	—	—	
H	高硬度钢 (SKD61, SKT4等)	38—45HRC	50 (30—80)	UH	—	—	—	

注1) 外刃使用VP15TF材料刀片时，请将切削速度降低70%左右。
注2) 外部冷却时，最大钻削孔深以L/D=3为标准。除此以外的钻削孔深不推荐使用。
注3) 不锈钢加工时，务必使用内部冷却。

P

推荐切削条件

工件材料		硬度	切削速度 (m/min)	内刃 断屑槽	φ30—φ63mm				
					每转进给量 (mm/rev)				
					L/D=2, 3	4	5	6	
P	软钢 (SS400, S10C等)	≤180HB	200 (180—235)	UM	0.08 (0.06—0.10)	0.07 (0.06—0.08)	0.07 (0.06—0.08)	0.06 (0.06—0.07)	
				UH					
	碳钢·合金钢 (S45C, SCM440等)	180—280HB	140 (115—180)	UM	0.14 (0.08—0.20)	0.12 (0.08—0.16)	0.12 (0.08—0.16)	0.11 (0.10—0.12)	
				UH					
	碳钢·合金钢 (SNCM439等)	280—350HB	100 (75—140)	UM	0.14 (0.08—0.20)	0.12 (0.08—0.16)	0.12 (0.08—0.16)	0.11 (0.10—0.12)	
				UH					
	合金工具钢 (SKD, SKT等)	≤350HB	135 (100—170)	UM	0.14 (0.08—0.20)	0.12 (0.08—0.16)	0.12 (0.08—0.16)	0.10 (0.08—0.12)	
				UH					
	M	奥氏体类不锈钢 (SUS304, SUS316等)	≤200HB	130 (80—180)	US	0.10 (0.06—0.14)	0.09 (0.06—0.12)	0.09 (0.06—0.12)	0.07 (0.06—0.10)
					UM				
奥氏体类不锈钢 (SUS304LN, SUS316LN等)		>200HB	130 (80—180)	US	0.10 (0.06—0.14)	0.09 (0.06—0.12)	0.09 (0.06—0.12)	0.07 (0.06—0.10)	
				UM					0.09 (0.06—0.12)
铁素体、 马氏体类不锈钢 (SUS410, SUS430等)		≤200HB	120 (80—165)	US	0.10 (0.06—0.14)	0.09 (0.06—0.12)	0.09 (0.06—0.12)	0.07 (0.06—0.10)	
				UM					0.09 (0.06—0.12)
铁素体、 马氏体类不锈钢 (SUS431, SUS420J2等)		>200HB	120 (80—165)	US	0.10 (0.06—0.14)	0.09 (0.06—0.12)	0.09 (0.06—0.12)	0.07 (0.06—0.10)	
				UM					0.09 (0.06—0.12)
K		灰铸铁 (FC300等)	抗拉强度 ≤350MPa	160 (130—195)	UM	0.15 (0.10—0.20)	0.12 (0.10—0.13)	0.12 (0.10—0.13)	
		球墨铸铁 (FCD450等)	抗拉强度 ≤450MPa	100 (80—135)	UM	0.15 (0.10—0.20)	0.12 (0.10—0.13)	0.12 (0.10—0.13)	0.11 (0.10—0.12)
	球墨铸铁 (FCD700等)	抗拉强度 ≤800MPa	100 (70—125)	UM	0.15 (0.10—0.20)	0.12 (0.10—0.13)	0.12 (0.10—0.13)	0.11 (0.10—0.12)	
N	铝合金 (A6061, A7075等)	Si<5%	200 (100—350)	UN	0.12 (0.05—0.20)	0.12 (0.05—0.18)	0.12 (0.05—0.18)	0.08 (0.05—0.12)	
	铝合金 (AC4B等)	5%≤Si≤10%	150 (100—200)	UN	0.12 (0.05—0.20)	0.12 (0.05—0.18)	0.12 (0.05—0.18)	0.08 (0.05—0.12)	
	铝合金 (ADC12, A390等)	Si>10%	150 (100—200)	UN	0.12 (0.05—0.20)	0.12 (0.05—0.18)	0.12 (0.05—0.18)	0.08 (0.05—0.12)	
H	高硬度钢 (SKD61, SKT4等)	38—45HRC	50 (30—80)	UH	0.11 (0.06—0.16)	0.09 (0.06—0.012)	—	—	

注1) 外刃使用VP15TF材料刀片时，请将切削速度降低70%左右。

注2) 外部冷却时，最大钻削孔深以L/D=3为标准。除此以外的钻削孔深不推荐使用。

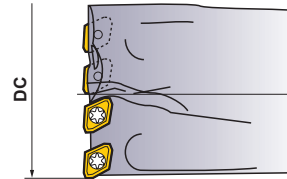
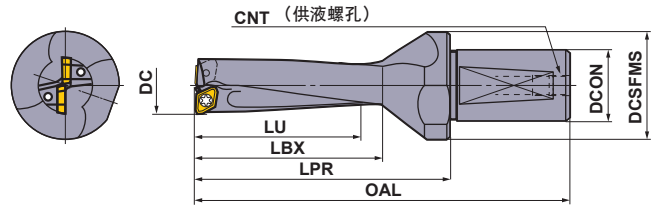
注3) 不锈钢加工时，务必使用内部冷却。

TAFS/TAFM/TAFL

TAF钻头

- 刀柄刚性高
- 使用4个刃角的刀片, 经济性好
- 材料、断屑槽种类多

硬质合金



* 刀头法兰盘部分的螺钉孔不是冷却孔。

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)							刀片型号	夹紧螺钉	扳手
					LU	LBX	LPR	OAL	DCON	DCSFMS	CNT			
12.0	2	TAFS1200F20	●	2	24	29	39	82	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
12.0	3	TAFM1200F20	●	2	36	41	51	94	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
12.5	2	TAFS1250F20	●	2	25	29	39	82	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
12.5	3	TAFM1250F20	●	2	37.5	41	51	94	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
13.0	2	TAFS1300F20	●	2	26	31	41	84	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
13.0	3	TAFM1300F20	●	2	39	44	54	97	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
13.5	2	TAFS1350F20	●	2	27	31	41	84	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
13.5	3	TAFM1350F20	●	2	40.5	44	54	97	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
14.0	2	TAFS1400F20	●	2	28	33	43	86	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
14.0	3	TAFM1400F20	●	2	42	47	57	100	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
14.5	2	TAFS1450F20	●	2	29	33	43	86	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
14.5	3	TAFM1450F20	●	2	43.5	47	57	100	20	25	PT1/8	GCMT040204-U	TS2	TKY06F
15.0	2	TAFS1500F20	●	2	30	35	45	88	20	25	PT1/8	GPMT060204-U	TS2	TKY06F
15.0	3	TAFM1500F20	●	2	45	50	60	103	20	25	PT1/8	GPMT060204-U	TS2	TKY06F
15.5	2	TAFS1550F20	●	2	31	35	45	88	20	25	PT1/8	GPMT060204-U	TS2	TKY06F
15.5	3	TAFM1550F20	●	2	46.5	50	60	103	20	25	PT1/8	GPMT060204-U	TS2	TKY06F
16.0	2	TAFS1600F25	●	2	32	38	57	107	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
16.0	3	TAFM1600F25	●	2	48	54	73	123	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
16.0	4	TAFL1600F25	●	2	64	70	89	139	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
16.5	2	TAFS1650F25	●	2	33	38	57	107	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
16.5	3	TAFM1650F25	●	2	49.5	54	73	123	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
17.0	2	TAFS1700F25	●	2	34	41	59	109	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
17.0	3	TAFM1700F25	●	2	51	58	76	126	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
17.0	4	TAFL1700F25	●	2	68	75	93	143	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
17.5	2	TAFS1750F25	●	2	35	41	59	109	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
17.5	3	TAFM1750F25	●	2	52.5	58	76	126	25	35	PT1/8	GPMT060204-U	TS2	TKY06F
18.0	2	TAFS1800F25	●	2	36	43	61	111	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
18.0	3	TAFM1800F25	●	2	54	61	79	129	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
18.0	4	TAFL1800F25	●	2	72	79	97	147	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
18.5	2	TAFS1850F25	●	2	37	43	61	111	25	35	PT1/8	GPMT070204-U	TS25	TKY08F

※安装扭矩 (N・m) : TS2=0.5, TS25=1.0

● : 标准库存品

刀片详见 > P245
 切削条件 > P246
 使用要点 > P249

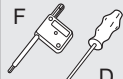
零件 > Q001
 技术资料 > R001

P

钻头

TAFS/TAFM/TAFL

TAF钻头

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)							刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS	CNT			
18.5	3	TAFM1850F25	●	2	55.5	61	79	129	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
19.0	2	TAFS1900F25	●	2	38	46	63	113	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
19.0	3	TAFM1900F25	●	2	57	65	82	132	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
19.0	4	TAFL1900F25	●	2	76	84	101	151	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
19.5	2	TAFS1950F25	●	2	39	46	63	113	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
19.5	3	TAFM1950F25	●	2	58.5	65	82	132	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
20.0	2	TAFS2000F25	●	2	40	48	65	115	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
20.0	3	TAFM2000F25	●	2	60	68	85	135	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
20.0	4	TAFL2000F25	●	2	80	88	105	155	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
20.5	2	TAFS2050F25	●	2	41	48	65	115	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
20.5	3	TAFM2050F25	●	2	61.5	68	85	135	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
21.0	2	TAFS2100F25	●	2	42	50	67	117	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
21.0	3	TAFM2100F25	●	2	63	71	88	138	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
21.0	4	TAFL2100F25	●	2	84	92	109	159	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
21.5	2	TAFS2150F25	●	2	43	50	67	117	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
21.5	3	TAFM2150F25	●	2	64.5	71	88	138	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
22.0	2	TAFS2200F25	●	2	44	53	69	119	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
22.0	3	TAFM2200F25	●	2	66	75	91	141	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
22.0	4	TAFL2200F25	●	2	88	97	113	163	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
22.5	2	TAFS2250F25	●	2	45	53	69	119	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
22.5	3	TAFM2250F25	●	2	67.5	75	91	141	25	35	PT1/8	GPMT070204-U	TS25	TKY08F
23.0	2	TAFS2300F25	●	2	46	55	71	121	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
23.0	3	TAFM2300F25	●	2	69	78	94	144	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
23.0	4	TAFL2300F25	●	2	92	101	117	167	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
23.5	2	TAFS2350F25	●	2	47	55	71	121	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
23.5	3	TAFM2350F25	●	2	70.5	78	94	144	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
24.0	2	TAFS2400F25	●	2	48	58	73	123	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
24.0	3	TAFM2400F25	●	2	72	82	97	147	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
24.0	4	TAFL2400F25	●	2	96	106	121	171	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
24.5	2	TAFS2450F25	●	2	49	58	73	123	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
24.5	3	TAFM2450F25	●	2	73.5	82	97	147	25	35	PT1/8	GPMT090304-U	TS3	TKY08F
25.0	2	TAFS2500F32	●	2	50	60	75	130	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
25.0	3	TAFM2500F32	●	2	75	85	100	155	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
25.0	4	TAFL2500F32	●	2	100	110	125	180	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
25.5	2	TAFS2550F32	●	2	51	60	75	130	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
25.5	3	TAFM2550F32	●	2	76.5	85	100	155	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
26.0	2	TAFS2600F32	●	2	52	62	77	132	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
26.0	3	TAFM2600F32	●	2	78	88	103	158	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
26.0	4	TAFL2600F32	●	2	104	114	129	184	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
26.5	2	TAFS2650F32	●	2	53	62	77	132	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
26.5	3	TAFM2650F32	●	2	79.5	88	103	158	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
27.0	2	TAFS2700F32	●	2	54	65	79	134	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
27.0	3	TAFM2700F32	●	2	81	92	106	161	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
27.0	4	TAFL2700F32	●	2	108	119	133	188	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
27.5	2	TAFS2750F32	●	2	55	65	79	134	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
27.5	3	TAFM2750F32	●	2	82.5	92	106	161	32	42	PT1/8	GPMT090304-U	TS3	TKY08F
28.0	2	TAFS2800F32	●	2	56	67	81	136	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
28.0	3	TAFM2800F32	●	2	84	95	109	164	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D

※安装扭矩 (N・m) : TS25=1.0, TS3=1.0

● : 标准库存品

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)							刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFS	CNT			
28.0	4	TAFL2800F32	●	2	112	123	137	192	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
28.5	2	TAFS2850F32	●	2	57	67	81	136	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
28.5	3	TAFM2850F32	●	2	85.5	95	109	164	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
29.0	2	TAFS2900F32	●	2	58	70	83	138	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
29.0	3	TAFM2900F32	●	2	87	99	112	167	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
29.0	4	TAFL2900F32	●	2	116	128	141	196	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
29.5	2	TAFS2950F32	●	2	59	70	83	138	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
29.5	3	TAFM2950F32	●	2	88.5	99	112	167	32	42	PT1/8	GPMT11T308-U	TS4	TKY15D
30.0	2	TAFS3000F40	●	2	60	72	90	155	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
30.0	3	TAFM3000F40	●	2	90	102	120	185	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
30.0	4	TAFL3000F40	●	2	120	132	150	215	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
31.0	2	TAFS3100F40	●	2	62	74	92	157	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
31.0	3	TAFM3100F40	●	2	93	105	123	188	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
31.0	4	TAFL3100F40	●	2	124	136	154	219	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
32.0	2	TAFS3200F40	●	2	64	77	94	159	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
32.0	3	TAFM3200F40	●	2	96	109	126	191	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
32.0	4	TAFL3200F40	●	2	128	141	158	223	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
33.0	2	TAFS3300F40	●	2	66	79	96	161	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
33.0	3	TAFM3300F40	●	2	99	112	129	194	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
33.0	4	TAFL3300F40	●	2	132	145	162	227	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
34.0	2	TAFS3400F40	●	2	68	82	98	163	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
34.0	3	TAFM3400F40	●	2	102	116	132	197	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
34.0	4	TAFL3400F40	●	2	136	150	166	231	40	50	PT1/4	GPMT11T308-U	TS4	TKY15D
35.0	2	TAFS3500F40	●	2	70	84	100	165	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
35.0	3	TAFM3500F40	●	2	105	119	135	200	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
36.0	2	TAFS3600F40	●	2	72	86	102	167	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
36.0	3	TAFM3600F40	●	2	108	122	138	203	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
37.0	2	TAFS3700F40	●	2	74	89	104	169	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
37.0	3	TAFM3700F40	●	2	111	126	141	206	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
38.0	2	TAFS3800F40	●	2	76	91	106	171	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
38.0	3	TAFM3800F40	●	2	114	129	144	209	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
39.0	2	TAFS3900F40	●	2	78	94	108	173	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
39.0	3	TAFM3900F40	●	2	117	133	147	212	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
40.0	2	TAFS4000F40	●	2	80	96	110	175	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
40.0	3	TAFM4000F40	●	2	120	136	150	215	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
41.0	2	TAFS4100F40	●	2	82	98	112	177	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
41.0	3	TAFM4100F40	●	2	123	139	153	218	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
42.0	2	TAFS4200F40	●	2	84	101	114	179	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
42.0	3	TAFM4200F40	●	2	126	143	156	221	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
43.0	2	TAFS4300F40	●	2	86	103	116	181	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
43.0	3	TAFM4300F40	●	2	129	146	159	224	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
44.0	2	TAFS4400F40	●	2	88	106	118	183	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
44.0	3	TAFM4400F40	●	2	132	150	162	227	40	50	PT1/4	GPMT140408-U	TS55	TKY25D
45.0	2	TAFS4500F40	●	2	90	108	120	185	40	54	PT1/4	GPMT140408-U	TS55	TKY25D
45.0	3	TAFM4500F40	●	2	135	153	165	230	40	54	PT1/4	GPMT140408-U	TS55	TKY25D
46.0	2	TAFS4600F40	●	2	92	110	122	187	40	54	PT1/4	GPMT140408-U	TS55	TKY25D
46.0	3	TAFM4600F40	●	2	138	156	168	233	40	54	PT1/4	GPMT140408-U	TS55	TKY25D
47.0	2	TAFS4700F40	●	2	94	113	124	189	40	54	PT1/4	GPMT140408-U	TS55	TKY25D

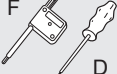
※安装扭矩 (N・m) : TS4=3.5, TS55=7.5

刀片详见 > P245
 切削条件 > P246
 使用要点 > P249

零件 > Q001
 技术资料 > R001

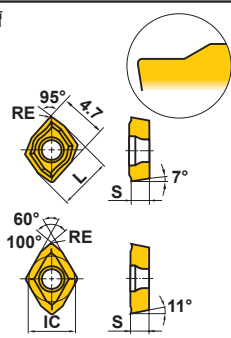
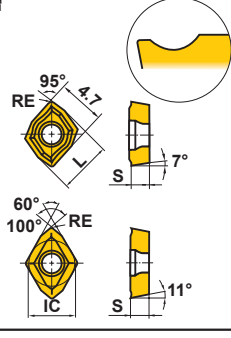
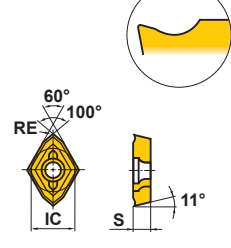
TAFS/TAFM/TAFL

TAF钻头

DC (mm)	钻削孔深 (L/D)	型号	库存	刃数	尺寸 (mm)							刀片型号		
					LU	LBX	LPR	OAL	DCON	DCSFMS	CNT			
47.0	3	TAFM4700F40	●	2	141	160	171	236	40	54	PT1/4	GPMT140408-U	TS55	TKY25D
48.0	2	TAFS4800F40	●	2	96	115	126	191	40	54	PT1/4	GPMT140408-U	TS55	TKY25D
48.0	3	TAFM4800F40	●	2	144	163	174	239	40	54	PT1/4	GPMT140408-U	TS55	TKY25D
49.0	2	TAFS4900F40	●	4	98	118	133	198	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
49.0	3	TAFM4900F40	●	4	147	167	182	247	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
50.0	2	TAFS5000F40	●	4	100	120	135	200	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
50.0	3	TAFM5000F40	●	4	150	170	185	250	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
51.0	2	TAFS5100F40	●	4	102	122	137	202	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
51.0	3	TAFM5100F40	●	4	153	173	188	253	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
52.0	2	TAFS5200F40	●	4	104	125	139	204	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
52.0	3	TAFM5200F40	●	4	156	177	191	256	40	58	PT1/4	GPMT090304-U	TS3	TKY08F
53.0	2	TAFS5300F40	●	4	106	127	141	206	40	63	PT1/4	GPMT090304-U	TS3	TKY08F
53.0	3	TAFM5300F40	●	4	159	180	194	259	40	63	PT1/4	GPMT090304-U	TS3	TKY08F
54.0	2	TAFS5400F40	●	4	108	128	143	208	40	63	PT1/4	GPMT090304-U	TS3	TKY08F
54.0	3	TAFM5400F40	●	4	162	182	197	262	40	63	PT1/4	GPMT090304-U	TS3	TKY08F
55.0	2	TAFS5500F40	●	4	110	130	145	210	40	63	PT1/4	GPMT090304-U	TS3	TKY08F
55.0	3	TAFM5500F40	●	4	165	185	200	265	40	63	PT1/4	GPMT090304-U	TS3	TKY08F
56.0	2	TAFS5600F40	●	4	112	132	147	212	40	63	PT1/4	GPMT090304-U	TS3	TKY08F
56.0	3	TAFM5600F40	●	4	168	188	203	268	40	63	PT1/4	GPMT090304-U	TS3	TKY08F

※安装扭矩 (N・m) : TS3=1.0, TS55=7.5

刀片

形 状	对应钻头直径	刀片型号	尺寸 (mm)				涂层				
			IC	L	S	RE	VP15TF	UP20M	GP20M	UE6020	US735
U1断屑槽 	ø12.0—ø14.5	GCMT040204-U1	—	5.0	2.38	0.4		●			
	ø15.0—ø17.5	GPMT060204-U1	5.56	—	2.38	0.4		●		●	
	ø18.0—ø22.5	GPMT070204-U1	6.35	—	2.38	0.4		●		●	
	ø23.0—ø27.5 ø49.0—ø56.0	GPMT090304-U1	7.94	—	3.18	0.4		●		●	
	ø28.0—ø34.0	GPMT11T308-U1	9.525	—	3.97	0.8		●		●	
	ø35.0—ø48.0	GPMT140408-U1	12.70	—	4.76	0.8		●		●	
U2断屑槽 	ø12.0—ø14.5	GCMT040204-U2	—	5.0	2.38	0.4	●		●		
	ø15.0—ø17.5	GPMT060204-U2	5.56	—	2.38	0.4	●	●		●	●
	ø18.0—ø22.5	GPMT070204-U2	6.35	—	2.38	0.4	●	●		●	●
	ø23.0—ø27.5 ø49.0—ø56.0	GPMT090304-U2	7.94	—	3.18	0.4	●	●		●	●
	ø28.0—ø34.0	GPMT11T308-U2	9.525	—	3.97	0.8	●	●		●	●
	ø35.0—ø48.0	GPMT140408-U2	12.70		4.76	0.8	●	●		●	●
U3断屑槽 	ø15.0—ø17.5	GPMT060204-U3	5.56	—	2.38	0.4		●		●	●
	ø18.0—ø22.5	GPMT070204-U3	6.35	—	2.38	0.4		●		●	●
	ø23.0—ø27.5 ø49.0—ø56.0	GPMT090304-U3	7.94	—	3.18	0.4		●		●	●
	ø28.0—ø34.0	GPMT11T308-U3	9.525	—	3.97	0.8		●		●	●
	ø35.0—ø48.0	GPMT140408-U3	12.70	—	4.76	0.8		●		●	●

刀片使用分类

刀片断屑槽的适用范围

◎：第一推荐 ○：第二推荐

工件材料 断屑槽	P						M		K			
	软钢		碳钢		合金钢		不锈钢		灰铸铁		球墨铸铁	
	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT
U1	◎	◎	○	○	○	○	○	○	○	○	○	○
U2	○	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
U3		○		○		○		○		○		○

刀片材料的适用范

◎：第一推荐 ○：第二推荐

工件材料 材 料	P						M		K			
	软钢		碳钢		合金钢		不锈钢		灰铸铁		球墨铸铁	
	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT	GCMT	GPMT
VP15TF		○	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
UP20M	◎	◎	○	○	○	○	○	○	○	○	○	○
GP20M	○		○		○		○		○		○	
UE6020		○		○		○		○		○		○
US735		○		○		○		○		○		○

P

钻头

TAFS/TAFM/TAFL

TAF钻头

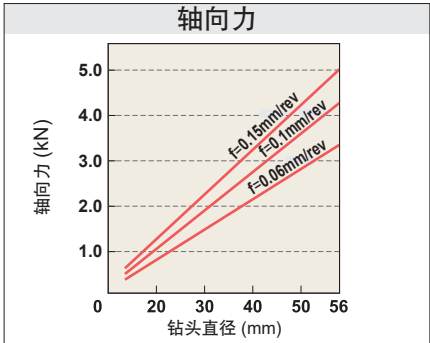
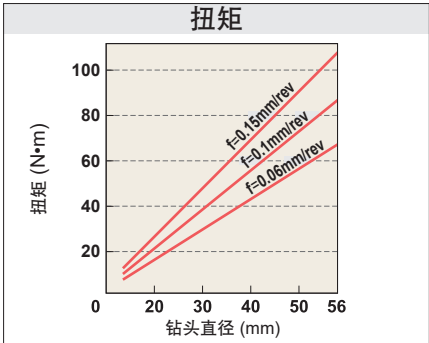
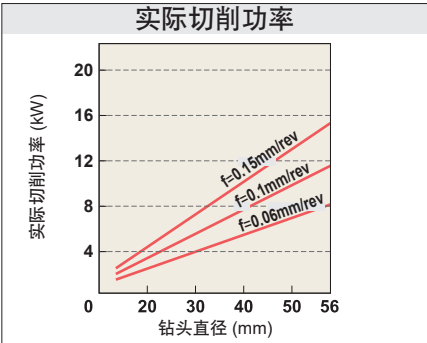
刀片规格

工件材料	硬度	切削速度 (m/min)			断屑槽	进给量 (mm/rev)					
		L/D=2, 3 用		L/D=4 用		钻头直径 (mm)					
		($\phi 12-\phi 14.5$)	($\phi 15-$)	($\phi 16-$)		$\phi 12-\phi 14.5$	$\phi 15-\phi 22.5$	$\phi 23-\phi 34$	$\phi 35-\phi 48$	$\phi 49-\phi 56$	
P	软钢	$\leq \text{HB180}$	150 (100—200)	200 (150—300)	140 (100—200)	U1	0.06 (0.04—0.10)	0.07 (0.04—0.10)	0.08 (0.04—0.10)	0.10 (0.04—0.12)	0.08 (0.04—0.10)
						U2	0.06 (0.04—0.10)	0.08 (0.04—0.12)	0.10 (0.04—0.12)	0.12 (0.04—0.14)	0.10 (0.04—0.12)
						U3	—	0.08 (0.04—0.12)	0.10 (0.04—0.12)	0.12 (0.04—0.14)	0.10 (0.04—0.12)
	碳钢	HB180—280	120 (80—160)	150 (120—180)	100 (80—120)	U1	0.06 (0.04—0.10)	0.09 (0.06—0.12)	0.12 (0.08—0.14)	0.15 (0.08—0.18)	0.12 (0.08—0.14)
						U2	0.06 (0.04—0.10)	0.12 (0.06—0.14)	0.14 (0.08—0.18)	0.17 (0.08—0.20)	0.14 (0.08—0.18)
						U3	—	0.12 (0.06—0.14)	0.14 (0.08—0.18)	0.17 (0.08—0.20)	0.14 (0.08—0.18)
	合金钢	HB180—280	120 (80—160)	150 (120—180)	100 (80—120)	U1	0.06 (0.04—0.10)	0.08 (0.06—0.10)	0.09 (0.06—0.12)	0.11 (0.06—0.14)	0.09 (0.06—0.12)
						U2	0.06 (0.04—0.10)	0.10 (0.06—0.12)	0.12 (0.08—0.16)	0.14 (0.08—0.18)	0.12 (0.08—0.16)
						U3	—	0.10 (0.06—0.12)	0.12 (0.08—0.16)	0.14 (0.08—0.18)	0.12 (0.08—0.16)
M	不锈钢	$\leq \text{HB200}$	100 (80—120)	150 (120—200)	110 (80—140)	U1	0.07 (0.04—0.10)	0.07 (0.04—0.10)	0.08 (0.04—0.10)	0.10 (0.04—0.12)	0.08 (0.04—0.10)
						U2	0.07 (0.04—0.10)	0.08 (0.04—0.12)	0.10 (0.04—0.14)	0.12 (0.04—0.16)	0.10 (0.04—0.14)
						U3	—	0.08 (0.04—0.12)	0.10 (0.04—0.14)	0.12 (0.04—0.16)	0.10 (0.04—0.14)
K	灰铸铁	抗拉强度 $\leq 350\text{MPa}$	120 (80—160)	150 (120—180)	140 (110—160)	U1	0.07 (0.06—0.10)	0.07 (0.06—0.10)	0.10 (0.04—0.14)	0.10 (0.06—0.14)	0.10 (0.06—0.14)
						U2	0.07 (0.06—0.10)	0.15 (0.10—0.18)	0.20 (0.10—0.25)	0.20 (0.10—0.25)	0.20 (0.10—0.25)
						U3	—	0.15 (0.10—0.18)	0.20 (0.10—0.25)	0.20 (0.10—0.25)	0.20 (0.10—0.25)
	球墨铸铁	抗拉强度 $\leq 450\text{MPa}$	120 (80—150)	150 (120—180)	100 (80—120)	U1	0.06 (0.04—0.10)	0.07 (0.06—0.10)	0.10 (0.06—0.14)	0.10 (0.06—0.14)	0.10 (0.06—0.14)
						U2	0.06 (0.04—0.10)	0.12 (0.08—0.14)	0.15 (0.08—0.20)	0.18 (0.08—0.20)	0.15 (0.08—0.20)
						U3	—	0.12 (0.08—0.14)	0.15 (0.08—0.20)	0.18 (0.08—0.20)	0.15 (0.08—0.20)

注1)当选用L/D=4 钻头时,实际进给量应是上表推荐值的80%。

■ 切削力

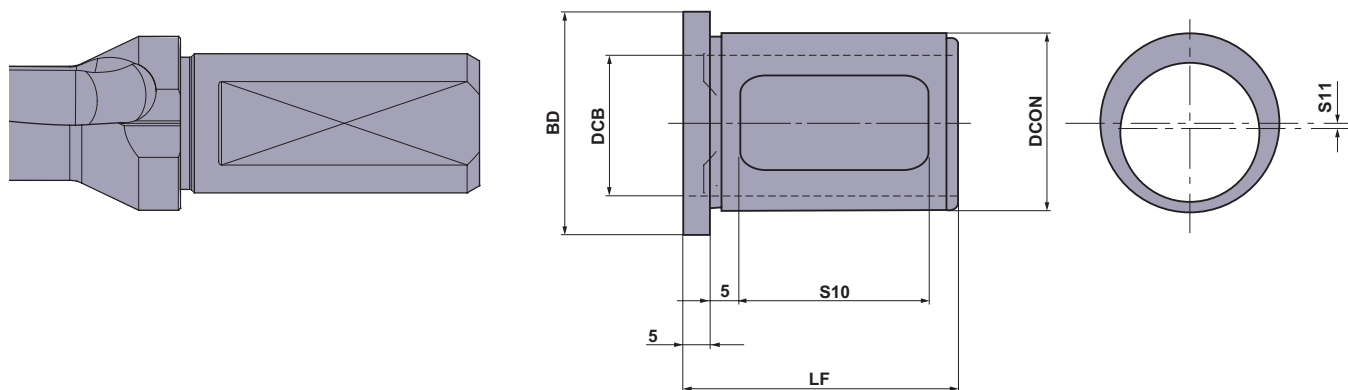
工件材料: SCM440 (HB220) 切削速度: 150m/min 刀片: U2断屑槽



钻头

增径专用滑套

● 安装在钻头的刀柄部分,使钻头旋转轴稍微偏心。因此,可以扩大加工的孔径。(扩大范围0.1~0.5mm)



型号	库存	整套型号	刀柄尺寸 (mm)					※ 增径 (S11×2)	钻头形式 (后尾 3 位)
			DCB	DCON	BD	LF	S10		
JFS2520-10	●	JFS-1	20	25	33	43	30	0.1	F20
JFS2520-20	●	JFS-1	20	25	33	43	30	0.2	F20
JFS2520-30	●	JFS-1	20	25	33	43	30	0.3	F20
JFS2520-40	●	JFS-1	20	25	33	43	30	0.4	F20
JFS2520-50	●	JFS-1	20	25	33	43	30	0.5	F20
JFS3225-10	●	JFS-2	25	32	40	50	34	0.1	F25
JFS3225-20	●	JFS-2	25	32	40	50	34	0.2	F25
JFS3225-30	●	JFS-2	25	32	40	50	34	0.3	F25
JFS3225-40	●	JFS-2	25	32	40	50	34	0.4	F25
JFS3225-50	●	JFS-2	25	32	40	50	34	0.5	F25
JFS4032-10	●	JFS-3	32	40	48	55	40	0.1	F32
JFS4032-20	●	JFS-3	32	40	48	55	40	0.2	F32
JFS4032-30	●	JFS-3	32	40	48	55	40	0.3	F32
JFS4032-40	●	JFS-3	32	40	48	55	40	0.4	F32
JFS4032-50	●	JFS-3	32	40	48	55	40	0.5	F32
JFS5040-10	●	—	40	50	68	65	50	0.1	F40
JFS5040-20	●	—	40	50	68	65	50	0.2	F40
JFS5040-30	●	—	40	50	68	65	50	0.3	F40
JFS5040-40	●	—	40	50	68	65	50	0.4	F40
JFS5040-50	●	—	40	50	68	65	50	0.5	F40

不能对应钻头形式 F50(刀柄直径φ50mm)。

※增径: 钻头直径的增大量

■ 专用滑套选择方法

被加工零件孔径 = (钻头直径 + 专用滑套增径) + 0.1mm

例)加工φ20.3mm孔(设扩大量为0.1)

$$\phi 20.3 = (\underbrace{\text{MVX2000 X } \phi 25}_{\text{钻头直径 } \phi 20\text{mm 钻头}} + \underbrace{\text{JFS3225-20}}_{\text{专用滑套增径 } 0.20\text{mm}}) + \underbrace{0.1}_{\text{扩大量}}$$

注1)扩大量应随切削条件的不同而变化。上表的选定标准是标准值。

■ 专用滑套

● 方法1: 根据切削条件变化而使扩大量改变,推荐整套购买。
(一套5件)
整套购买请注明整套型号。

● 方法2: 也可单件购买。购买时请注明单件型号。

<选用刀具>
钻头: MVX2000 X φ25
增径专用滑套
: JFS3225-20

P

钻头

●: 标准库存品

使用要点 > P249
技术资料 > R001

增径专用滑套

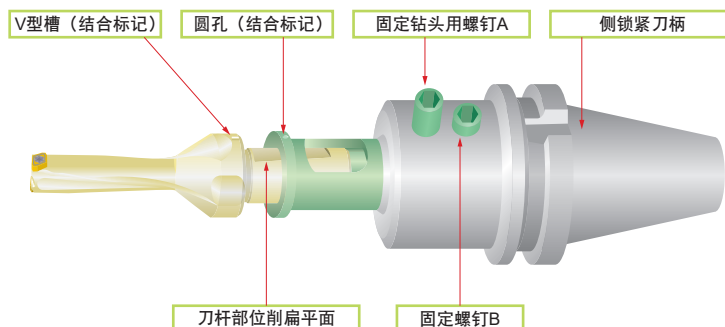
■ 增径专用滑套的使用方法

- 1 插入侧锁紧刀柄时，应使钻头刀头凸盘外圆面上的V型槽与滑套外圆面上的圆孔并与侧锁紧刀柄上固定钻头的螺钉位置相一致(有的钻头无V型槽时，可使钻头刀柄部位削扁平面与滑套上的圆孔相垂直)。

- 2 侧锁紧刀柄上固定钻头用螺钉A，直接从滑套开口窗压紧钻头。

<注意>

- 滑套的直径不能微调。
- 不能使用在弹簧筒夹式刀柄上。

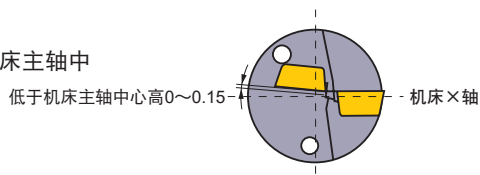


■ MVX钻头的使用方法

● 使用车床时

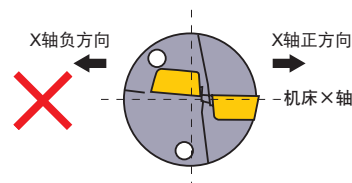
- (1) 安装时请将外刃与刀架倾斜面(机床X轴)平行。钻头在设计上钻头中心与机床主轴中心对齐时，内刃的中心高低于机床主轴中心高0~0.15mm。

※内刃的中心高高于机床X轴的中心高时，内刃有可能发生破损。

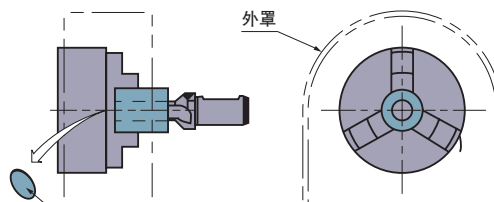


- (2) 因偏置需调整孔径时，请向X轴的正方向(孔径扩大方向)调整，各刀柄的最大调整量在刀柄尺寸表中有记载，请参考。

※不推荐向X轴的负方向(孔径缩小方向)调整，因为刀柄与孔有可能发生干涉。

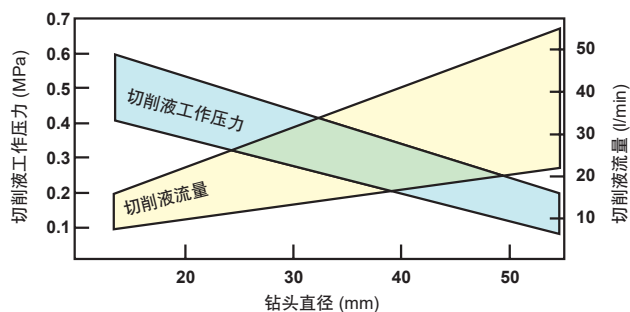


- (3) 在车床上钻削通孔时，钻通时生成的圆盘状切屑常常会飞出。在没有外罩的普通车床加工时为防止危险，请安装防护罩。



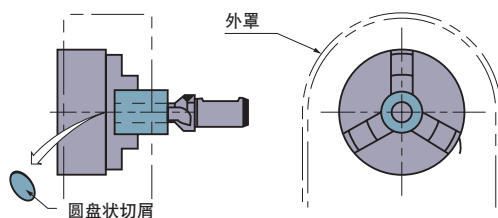
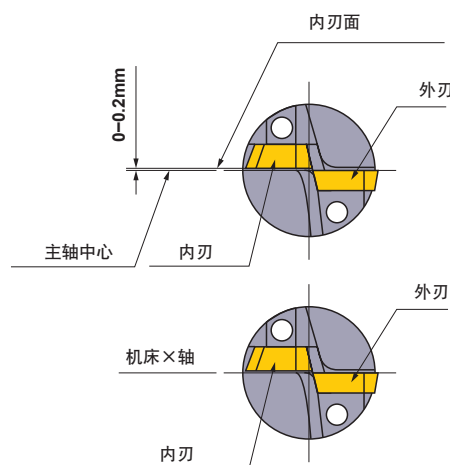
TAF钻头的使用方法

- 请使用刚性足够的机床和刀柄夹头。
- 冷却液的工作压力与流量以右表为准。
冷却液是发挥钻头性能的重要条件。
- 不能加工叠板。
可转位钻头钻通孔时，会产生圆盘状切屑。
加工叠板时产生的圆盘状切屑会损伤钻头。



●使用车床时

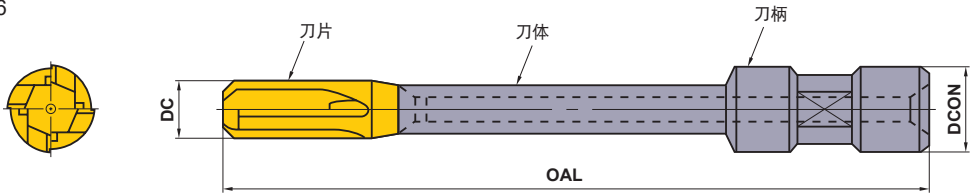
- (1)内刃高于主轴中心0-0.2mm。
- (2)要调整孔径时因为要偏置,外刃请调整到与刀架倾斜面(机床X轴)平行。
- (3)孔径扩大所调整的偏置量应小于选用钻头直径的2%,此外,孔径不能调小。
- (4)在车床上钻削通孔时,钻通时生成的圆盘状切屑常常会飞出。在没有外罩的普通车床加工时为防止危险,请安装防护罩。



枪孔铰刀

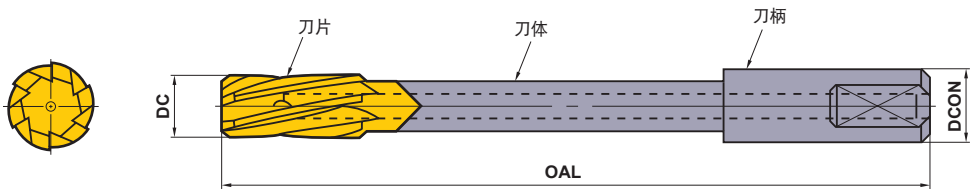
●直槽型

- 适应直径： $\phi 6.0-\phi 30.0$
- 适应切削刃数：1, 2, 3, 4, 6



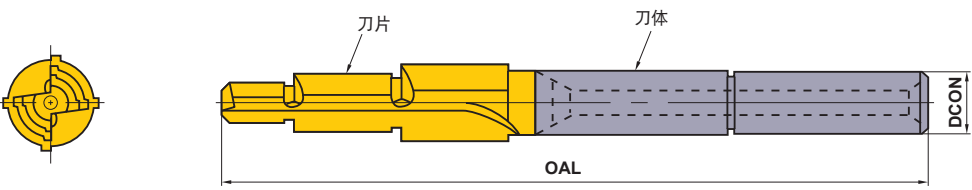
●螺旋槽型

- 适应直径： $\phi 6.0-\phi 30.0$
- 适应切削刃数：4, 6



●阶梯型

- 适应直径： $\phi 6.0-\phi 30.0$
- 适应切削刃数：1, 2, 4



P

钻头

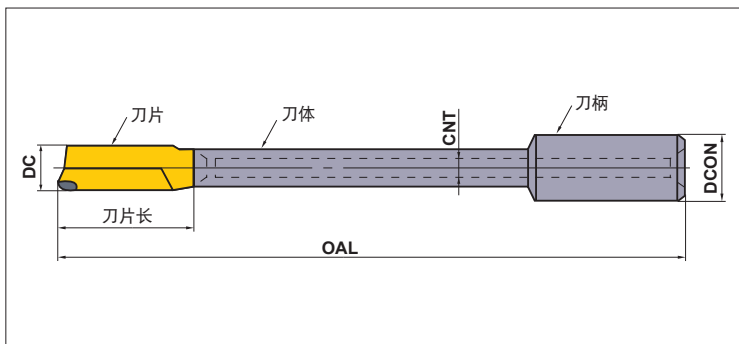
■订购方法

订购时请指定：
①铰刀名称 ②铰刀直径(DC) ③铰刀全长(OAL) ④刀柄外圆直径(DCON)及类型 ⑤刃数 ⑥工件材料的种类、加工精度、铰削孔深及孔的状态(通孔、盲孔)，
例)通用型枪孔铰刀 $\phi 12 \times 450 \times \phi 19.5$ A型刀柄、4切削刃FC250(HB180) $\times \phi 12^{+0.020}_{-0} \times 100 \times$ 通孔

金刚石烧结体

枪孔铰刀

硬质合金



规格（标准尺寸）

铰刀直径	刀片长	全长 OAL	刃数（枚）	刃型
$\phi 6 - \phi 30.3$	*	*	*	直柄型

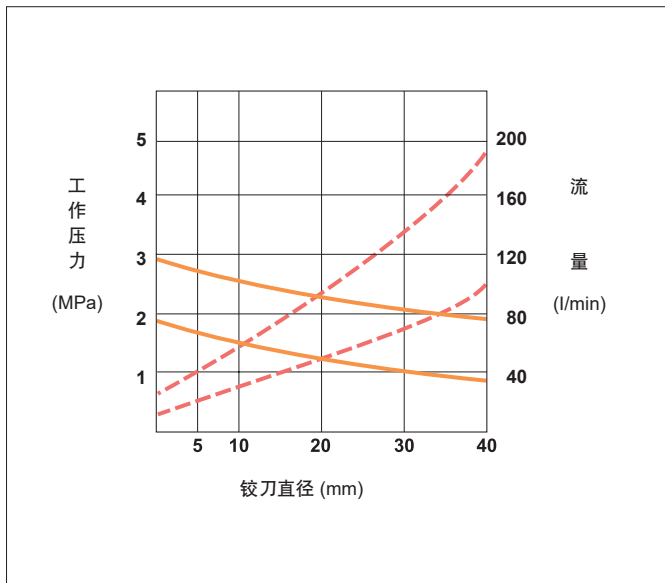
※上表以外的铰刀直径及附印*（刀片长度、全长、刃数）的产品规格，订购时需商谈后再确定。

铰刀直径 DC	刀柄内孔直径 CNT	刀柄外圆直径 DCON
$6.0 \leq DC \leq 7.0$	3.5	12.70
$7.0 < DC \leq 13.3$	4.8	19.05
$13.3 < DC \leq 20.8$	6.4	25.40
$20.8 < DC \leq 25.3$	8.0	31.75
$25.3 < DC \leq 30.3$	8.0	38.10

推荐切削条件

工件材料	切削速度 (m/min)	进给量 (mm/rev)		
		$\phi 5 - \phi 10$	$\phi 10 - \phi 20$	$\phi 25 - \phi 30$
铝合金	150	0.08	0.10	0.10
	(100—200)	(0.05—0.10)	(0.05—0.15)	(0.05—0.15)
铜合金	130	0.03	0.05	0.06
	(80—180)	(0.02—0.04)	(0.03—0.06)	(0.04—0.07)

切削液



订购方法

订购时请指定：

①铰刀名称 ②铰刀直径(DC) ③铰刀全长(OAL) ④刃数 ⑤刀柄外圆直径(DCON)及类型

⑥工件材料的种类、加工精度、铰削孔深及孔的状态(通孔、盲孔)。

例) 金刚石烧结体枪孔铰刀 $\phi 10 \times 300 \times 1$ 刃 $\times \phi 19.05$ A型刀柄 AC4B $\times \phi 10^{+0.01}_0 \times 200 \times$ 通孔

P

钻头

