



整硬刀具样本册

SOLID TOOL BROCHURE



Chengdu Metcera Advanced Materials Co.,Ltd

Address: NO.566Jst Checheng Road West, Longquanyi District, Chengdu, China
E-mail: sales@metcera.com Tel: +86-28-6519 1169 / 6519 2699 service: 4006-816-028



扫描二维码，关注美睿锐微信公众号。



浏览美睿锐官方网站，获取相关资讯。



 **4006 816 028**

www.metcera.com

E 铣刀类
Endmill

加工形态 application	系列 Series	命名 Tool Name	型号 Part No.	图示 Appearance	工件材料 Workpiece Material								页码 Page		
					P		M	K	N		S	H			
					碳钢 carbon steel	合金钢 Alloy	不锈钢 Stainless Steel	铸铁 Cast Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	高温合金、钛合金 Refractory Titanium Alloy	高硬钢 Hardened Steel 45-55HRC		>55HRC	规格 Specification
通用加工 General	MP系列 MP-Series (For P material)	通用二刀铣刀 General 2F Flat Mill	MPE2		●	●	○	○						01	
		通用四刀铣刀 General 4F Flat Mill	MPE4		●	●	○	○						02	
		通用二刀球刀 General 2F Ball Mill	MPB2		●	●	○	○						03	
		通用四刀球刀 General 4F Ball Mill	MPB4		●	●	○	○						04	
		通用四刀圆鼻刀 General 4F Bull Mill	MPR4		●	●	○	○						05	
		通用长颈短刃四刀圆鼻刀 General 4F Bull nose Mill(Sf/Ln)	MPRL4		●	●	○	○						06	
		通用四刀粗皮刀 General 4F Rough (Flat) Mill	MPV4		●	●	○	○						07	
		通用四刀倒角刀 General 4F Chamfer Mill	MPG4		●	●	○	○						08	
		通用四刀内R刀 General 4F Rad Mill	MPGR4		●	●	○	○						09	
高性能通用加工 Reinforced General Processing	MPF高效系列 MPF Efficient Series	高效四刀铣刀 Efficient 4-F Flat Mill	MPF4		☆	☆	●	☆						10	
		高效四刀圆鼻刀 Efficient 4-F Bull nose Mill	MPFR4		☆	☆	●	☆						11	
		加强型高效四刀铣刀 Reinforced E-4F Flat Mill	MPFX4		☆	☆	●	☆						12	
		加强型高效四刀圆鼻刀 Reinforced E-4F Bull nose Mill	MPFRX4		☆	☆	●	☆						13	
	MPK多功能系列 MPK Multi-Series	多功能铣刀 Multifunctional Mill	MPK4		●	●	●	●						14	
		加强型多功能铣刀 Reinforced Multi-mill	MPKX4		●	●	●	●						15	
	MPS模架刀系列 MPS Series Die Mill Series	模架刀 Mold Milling	MPS4		●	●		○						16	
加强型模架刀 Reinforced Die Mill		MPSX4		●	●		○						17		
高硬度钢加工 Hardened Steel Processing	MH系列 MH Series	高硬二刀铣刀 Hardened 2F Flat Mill	MHE2								●	●		18	
		高硬四刀铣刀 Hardened 4F Flat Mill	MHE4								●	●		19	
		高硬六刀铣刀 Hardened 6F Flat Mill	MHE6								●	●		20	
		高硬二刀球刀 Hardened 2F Ball Mill	MHB2								●	●		21	
		高硬四刀球刀 Hardened 4F Ball Mill	MHB4								●	●		22	
铝加工 Aluminum Application	MA系列 MA Series (Aluminum)	二刀铝用铣刀 2F Flat Mill (Al)	MAE2							●				24	
		三刀铝用铣刀 3F Flat Mill (Al)	MAE3							●				25	
		二刀铝用球刀 2F Ball Mill (Al)	MAB2							●				26	
		二刀铝用圆鼻刀 2F Bull Mill (Al)	MAR2							●				27	
		三刀铝用圆鼻刀 3F Bull Mill (Al)	MAR3							●				28	
		三刀铝用粗皮刀 3F Rough (Flat) Mill (Al)	MAV3							●				29	
	三刀铝用倒角刀 3F Chamfer Mill (Al)	MAG3							●				30		
	MAM系列 MAM Series (Aluminum)	高效三刀铝用铣刀 Efficient 3F Flat Mill (Al)	MAM3						☆	☆					31
		加强型高效三刀铝用铣刀 Reinforced E-3F Flat Mill (Al)	MAMX3						☆	☆					32
		高效三刀铝用圆鼻刀 Efficient 3F Bull Mill (Al)	MAMR3						☆	☆					33
	加强型高效三刀铝用圆鼻刀 Reinforced E-3F Bull Mill (Al)	MAMRX3						☆	☆					34	

E 铣刀类
Endmill

加工形态 application	系列 Series	命名 Tool Name	型号 Part No.	图示 Appearance	工件材料 Workpiece Material								页码 Page	
					P		M	K	N		S	H		
					碳钢 carbon steel	合金钢 Alloy	不锈钢 Stainless Steel	铸铁 Cast Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	高温合金、钛合金 Refractory Titanium Alloy	高硬钢 Hardened Steel 45-55HRC		>55HRC
难加工材料加工	MM系列 MMX Series (Stainless Steel)	不锈钢四刀铣刀 4F Flat Mill (SS)	MME4		○	○	☆				○			35
		不锈钢双刃球刀 2F Ball Mill (SS)	MMB2		○	○	☆				○			36
		不锈钢四刀圆鼻刀 4F Bull nose Mill (SS)	MMR4		○	○	☆				○			37
		不锈钢四刀粗皮刀 4F Rough (Flat) Mill (SS)	MMV4		○	○	☆				○			38
		不锈钢四刀倒角刀 4F Chamfer Mill (SS)	MMG4		○	○	☆				○			39
		加强型不锈钢四刀铣刀 Reinforced 4F Flat Mill (SS)	MMEX4		○	○	☆				○			40
	MMX系列 MMX Series (Stainless Steel)	加强型不锈钢二刀球刀 Reinforced 2F Flat Mill (SS)	MMB2		○	○	☆				○			41
		加强型不锈钢四刀圆鼻刀 Reinforced 4F Bull nose Mill (SS)	MMR4		○	○	☆				○			42
		加强型不锈钢四刀粗皮刀 Reinforced 4F Rough (Flat) Mill (SS)	MMV4		○	○	☆				○			43
		加强型不锈钢四刀倒角刀 Reinforced 4F Chamfer Mill (SS)	MMGX4		○	○	☆				○			44
	MS系列 MS Series (Titanium Alloy)	钛合金四刀铣刀 4F Flat Mill (Ti-Alloy)	MSE4		○	○	○				☆			45
		钛合金二刀球刀 2F Ball Mill (Ti-Alloy)	MSB2		○	○	○				☆			47
	钛合金四刀圆鼻刀 4F Bull nose Mill (Ti-Alloy)	MSR4		○	○	○				☆			46	

D 钻头类
Drill

加工形态 application	系列 Series	命名 Tool Name	型号 Part No.	图示 Appearance	工件材料 Workpiece Material								页码 Page	
					P		M	K	N		S	H		
					碳钢 carbon steel	合金钢 Alloy	不锈钢 Stainless Steel	铸铁 Cast Iron	铜合金 Copper Alloy	铝合金 Aluminum Alloy	高温合金、钛合金 Refractory Titanium Alloy	高硬钢 Hardened Steel 45-55HRC		>55HRC
通用加工 General	通用麻花钻系列 Carbide DrillP(Steel)-Series	通用型外冷麻花钻-三倍径 G-External Coolant Drill-3D	MP3D		●	●	○	○						48-52
		通用型内冷麻花钻-三倍径 G-Internal Coolant Drill-3D	MP3DC		●	●	○	○						53-54
		通用型外冷麻花钻-五倍径 G-External Coolant Drill-5D	MP5D		●	●	○	○						55-61
		通用型内冷麻花钻-五倍径 G-Internal Coolant Drill-5D	MP5DC		●	●	○	○						62-65
不锈钢加工 Stainless Steel	不锈钢麻花钻系列 Carbide DrillM(SS)-Series	不锈钢外冷麻花钻-三倍径 M-External Coolant Drill-3D	MM3D		○	○	●	○			●			66-70
		不锈钢内冷麻花钻-三倍径 M-Internal Coolant Drill-3D	MM3DC		○	○	●	○			●			71-74
		不锈钢外冷麻花钻-五倍径 M-External Coolant Drill-5D	MM5D		○	○	●	○			●			75-79
		不锈钢内冷麻花钻-五倍径 M-Internal Coolant Drill-5D	MM5DC		○	○	●	○			●			80-83
铝加工 Aluminium	铝用麻花钻系列 Carbide DrillH(Aluminium)-Series	铝用外冷麻花钻-三倍径 H-External Coolant Drill-3D	MA3D						●	●				84-88
		铝用内冷麻花钻-三倍径 H-Internal Coolant Drill-3D	MA3DC						●	●				89-92
		铝用外冷麻花钻-五倍径 H-External Coolant Drill-5D	MA5D						●	●				93-97
		铝用内冷麻花钻-五倍径 H-Internal Coolant Drill-5D	MA5DC						●	●				98-101

○: 适合 ●: 非常适合 ☆: 特别推荐
Applicable Suitable Recommended

通用型二刃铣刀-MPE2系列

General 2F Flat Mill - MPE2 series



适合高、中速加工 HRC50 度以下的合金钢、模具钢、预硬钢。

Hardness: Below HRC50,
Materials: Ordinary--- Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High / Medium Speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MPE2010450	1.0	3	4	50
MPE20150450	1.5	4	4	50
MPE2020450	2.0	6	4	50
MPE20250450	2.5	8	4	50
MPE2030450	3.0	8	4	50
MPE2040450	4.0	12	4	50
MPE2040475	4.0	15	4	75
MPE20404100	4.0	20	4	100
MPE2050550	5.0	13	5	50
MPE2050650	5.0	13	6	50
MPE2060650	6.0	15	6	50
MPE2060675	6.0	20	6	75
MPE20606100	6.0	30	6	100
MPE20606150	6.0	35	6	150
MPE2080860	8.0	20	8	60
MPE2080875	8.0	25	8	75
MPE20808100	8.0	35	8	100
MPE20808150	8.0	40	8	150
MPE2101075	10.0	25	10	75
MPE21010100	10.0	40	10	100
MPE21010150	10.0	55	10	150
MPE2121275	12.0	30	12	75
MPE21212100	12.0	45	12	100
MPE21212150	12.0	60	12	150
MPE21414100	14.0	45	14	100
MPE21414150	14.0	60	14	150
MPE21616100	16.0	45	16	100
MPE21616150	16.0	70	16	150
MPE21818100	18.0	45	18	100
MPE21818150	18.0	70	18	150
MPE22020100	20.0	45	20	100
MPE22020150	20.0	70	20	150

通用型四刃铣刀-MPE4系列

General 4F Flat Mill-MPE4 series



不等齿距, 不等螺旋设计, 适合高、中速加工 HRC50 度以下的合金钢、模具钢、预硬钢。

Designing: Unequal Pitch and helix angle designing.
Hardness: Below HRC50,
Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High-speed and feed Processing.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MPE4010450	1.0	3	4	50
MPE40150450	1.5	4	4	50
MPE4020450	2.0	6	4	50
MPE40250450	2.5	8	4	50
MPE4030450	3.0	8	4	50
MPE4040450	4.0	12	4	50
MPE4040475	4.0	15	4	75
MPE40404100	4.0	20	4	100
MPE4050550	5.0	13	5	50
MPE4050650	5.0	13	6	50
MPE4060650	6.0	15	6	50
MPE4060675	6.0	20	6	75
MPE40606100	6.0	30	6	100
MPE40606150	6.0	35	6	150
MPE4080860	8.0	20	8	60
MPE4080875	8.0	25	8	75
MPE40808100	8.0	35	8	100
MPE40808150	8.0	40	8	150
MPE4101075	10.0	25	10	75
MPE41010100	10.0	40	10	100
MPE41010150	10.0	55	10	150
MPE4121275	12.0	30	12	75
MPE41212100	12.0	45	12	100
MPE41212150	12.0	60	12	150
MPE41414100	14.0	45	14	100
MPE41414150	14.0	60	14	150
MPE41616100	16.0	45	16	100
MPE41616150	16.0	70	16	150
MPE41818100	18.0	45	18	100
MPE41818150	18.0	70	18	150
MPE42020100	20.0	45	20	100
MPE42020150	20.0	70	20	150

通用型二刃球刀-MPB2系列
General 2F Ball Mill- MPB2 series



适合高、中速加工 HRC50 度以下的合金钢、模具钢、预硬钢。

Hardness: Below HRC50,
Materials: Ordinary--- Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High / Medium Speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALTiSiN
型号	刃径/球半径	刃长	柄径	总长
Size	CED/R	CEL	SHK	OVL
MPB2010450	1.0/0.5	2	4	50
MPB20150450	1.5/0.75	3	4	50
MPB2020450	2.0/1.0	4	4	50
MPB20250450	2.5/1.25	5	4	50
MPB2030450	3.0/1.5	6	4	50
MPB2040450	4.0/2.0	8	4	50
MPB2040475	4.0/2.0	8	4	75
MPB20404100	4.0/2.0	8	4	100
MPB2050550	5.0/2.5	10	5	50
MPB2050650	5.0/2.5	10	6	50
MPB2060650	6.0/3.0	12	6	50
MPB2060675	6.0/3.0	12	6	75
MPB20606100	6.0/3.0	12	6	100
MPB20606150	6.0/3.0	12	6	150
MPB2080860	8.0/4.0	16	8	60
MPB2080875	8.0/4.0	16	8	75
MPB20808100	8.0/4.0	16	8	100
MPB20808150	8.0/4.0	16	8	150
MPB2101075	10.0/5.0	20	10	75
MPB21010100	10.0/5.0	20	10	100
MPB21010150	10.0/5.0	20	10	150
MPB2121275	12.0/6.0	24	12	75
MPB21212100	12.0/6.0	24	12	100
MPB21212150	12.0/6.0	24	12	150
MPB21414100	14.0/7.0	28	14	100
MPB21414150	14.0/7.0	28	14	150
MPB21616100	16.0/8.0	32	16	100
MPB21616150	16.0/8.0	32	16	150
MPB21818100	18.0/9.0	36	18	100
MPB21818150	18.0/9.0	36	18	150
MPB22020100	20.0/10.0	40	20	100
MPB22020150	20.0/10.0	40	20	150

通用型四刃球刀-MPB4系列
General 4F Ball Mill-MPB4 series



适合高、中速加工 HRC50 度以下的合金钢、模具钢、预硬钢。

Hardness: Below HRC50,
Materials: Ordinary--- Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High / Medium Speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALTiSiN
型号	刃径/球半径	刃长	柄径	总长
Size	CED/R	CEL	SHK	OVL
MPB4010450	1.0/0.5	2	4	50
MPB40150450	1.5/0.75	3	4	50
MPB4020450	2.0/1.0	4	4	50
MPB40250450	2.5/1.25	5	4	50
MPB4030450	3.0/1.5	6	4	50
MPB4040450	4.0/2.0	8	4	50
MPB4040475	4.0/2.0	8	4	75
MPB40404100	4.0/2.0	8	4	100
MPB4050550	5.0/2.5	10	5	50
MPB4050650	5.0/2.5	10	6	50
MPB4060650	6.0/3.0	12	6	50
MPB4060675	6.0/3.0	12	6	75
MPB40606100	6.0/3.0	12	6	100
MPB40606150	6.0/3.0	12	6	150
MPB4080860	8.0/4.0	16	8	60
MPB4080875	8.0/4.0	16	8	75
MPB40808100	8.0/4.0	16	8	100
MPB40808150	8.0/4.0	16	8	150
MPB4101075	10.0/5.0	20	10	75
MPB41010100	10.0/5.0	20	10	100
MPB41010150	10.0/5.0	20	10	150
MPB4121275	12.0/6.0	24	12	75
MPB41212100	12.0/6.0	24	12	100
MPB41212150	12.0/6.0	24	12	150
MPB41414100	14.0/7.0	28	14	100
MPB41414150	14.0/7.0	28	14	150
MPB41616100	16.0/8.0	32	16	100
MPB41616150	16.0/8.0	32	16	150
MPB41818100	18.0/9.0	36	18	100
MPB41818150	18.0/9.0	36	18	150
MPB42020100	20.0/10.0	40	20	100
MPB42020150	20.0/10.0	40	20	150

通用型四刃圆鼻铣刀-MPR4系列

General 4F Bull Mill -MPR4 series



适合高、中速加工 HRC50 度以下的合金钢、模具钢、预硬钢。					
Hardness: Below HRC50, Materials: Ordinary--- Alloy steel, Mold steel, Pre-hardened steel. etc. Application: High / Medium Speed.					
刀具材质: 硬质合金 (钨钢)				涂层 (coating)	
Tool material: cemented carbide(tungsten steel)				ALTiSiN	
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MPR401010450	1.0	3	0.1	4	50
MPR401020450	1.0	3	0.2	4	50
MPR402020450	2.0	6	0.2	4	50
MPR402030450	2.0	6	0.3	4	50
MPR403020450	3.0	8	0.2	4	50
MPR403030450	3.0	8	0.3	4	50
MPR404030450	4.0	10	0.3	4	50
MPR404050450	4.0	10	0.5	4	50
MPR405050550	5.0	13	0.5	5	50
MPR405100550	5.0	13	1.0	5	50
MPR406050650	6.0	15	0.5	6	50
MPR406100650	6.0	15	1.0	6	50
MPR406050675	6.0	15	0.5	6	75
MPR406100675	6.0	15	1.0	6	75
MPR408050860	8.0	20	0.5	8	60
MPR408100860	8.0	20	1.0	8	60
MPR4080508100	8.0	20	0.5	8	100
MPR4081008100	8.0	20	1.0	8	100
MPR410051075	10.0	25	0.5	10	75
MPR410101075	10.0	25	1.0	10	75
MPR410201075	10.0	25	2.0	10	75
MPR4100510100	10.0	25	0.5	10	100
MPR4101010100	10.0	25	1.0	10	100
MPR4102010100	10.0	25	2.0	10	100
MPR412101275	12.0	30	1.0	12	75
MPR412201275	12.0	30	2.0	12	75
MPR412301275	12.0	30	3.0	12	75
MPR4121012100	12.0	30	1.0	12	100
MPR4122012100	12.0	30	2.0	12	100
MPR4123012100	12.0	30	3.0	12	100
MPR4161016100	16.0	45	1.0	16	100
MPR4162016100	16.0	45	2.0	16	100
MPR4163016100	16.0	45	3.0	16	100

通用型长颈短刃四刃圆鼻铣刀-MPRL4系列

General 4F Bull nose Mill(Sf/Ln) -MPR4 series



长颈短刃设计, 适用于碳素钢、合金钢、预硬钢等普通材料的深型腔洗削加工。							
Designing: Long-neck & Short-flute, Materials: Ordinary---Carbon steel, Alloy steel, Pre-hardened steel. etc. Application: Deep cavity milling.							
刀具材质: 硬质合金 (钨钢)					涂层 (coating)		
Tool material: cemented carbide(tungsten steel)					ALTiSiN		
型号	刃径	刃长	圆角	颈径	颈长	柄径	总长
Size	D1	L1	R	D2	L2	D	L
MPRL406005675	6.0	6	0.5	5.8	18	6	75
MPRL406010675	6.0	6	1.0	5.8	18	6	75
MPRL4080058100	8.0	8	0.5	7.8	24	8	100
MPRL4080108100	8.0	8	1.0	7.8	24	8	100
MPRL41000510100	10.0	10	0.5	9.6	30	10	100
MPRL41001010100	10.0	10	1.0	9.6	30	10	100
MPRL41002010100	10.0	10	2.0	9.6	30	10	100
MPRL41200512100	12.0	12	0.5	11.5	36	12	100
MPRL41201012100	12.0	12	1.0	11.5	36	12	100
MPRL41202012100	12.0	12	2.0	11.5	36	12	100
MPRL41601016150	16.0	16	1.0	15.5	45	16	150
MPRL41602016150	16.0	16	2.0	15.5	45	16	150

通用型四刃粗皮铣刀-MPV4系列

General 4F Rough (Flat) Mill -MPV4 series



适合高、中速粗铣加工 HRC50 度以下的合金钢、模具钢、预硬钢。

Hardness: Below HRC50,
Materials: Ordinary---Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High / Medium Speed Rough-milling

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MPV4040450	4.0	12	4	50
MPV4040475	4.0	15	4	75
MPV40404100	4.0	20	4	100
MPV4050550	5.0	13	5	50
MPV4050650	5.0	13	6	50
MPV4060650	6.0	15	6	50
MPV4060675	6.0	20	6	75
MPV40606100	6.0	30	6	100
MPV40606150	6.0	35	6	150
MPV4080860	8.0	20	8	60
MPV4080875	8.0	25	8	75
MPV40808100	8.0	35	8	100
MPV40808150	8.0	40	8	150
MPV4101075	10.0	25	10	75
MPV41010100	10.0	40	10	100
MPV41010150	10.0	55	10	150
MPV4121275	12.0	30	12	75
MPV41212100	12.0	45	12	100
MPV41212150	12.0	60	12	150
MPV41414100	14.0	45	14	100
MPV41414150	14.0	60	14	150
MPV41616100	16.0	45	16	100
MPV41616150	16.0	70	16	150
MPV41818100	18.0	45	18	100
MPV41818150	18.0	70	18	150
MPV42020100	20.0	45	20	100
MPV42020150	20.0	70	20	150

通用型四刃倒角铣刀-MPG4系列

General 4F Chamfer Mill - MPG4 series



适合 HRC50 度以下的合金钢、模具钢、预硬钢等材料的倒角加工。

Hardness: Below HRC50,
Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: Chamfering processing

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALTiSiN
型号	刃径	角度	柄径	总长
Size	CED	A	SHK	OVL
MPG4036050	3	60°	3	50
MPG4039050	3	90°	3	50
MPG40312050	3	120°	3	50
MPG4046050	4	60°	4	50
MPG4049050	4	90°	4	50
MPG40412050	4	120°	4	50
MPG4056050	5	60°	5	50
MPG4059050	5	90°	5	50
MPG40512050	5	120°	5	50
MPG4066050	6	60°	6	50
MPG4069050	6	90°	6	50
MPG40612050	6	120°	6	50
MPG4086060	8	60°	8	60
MPG4089060	8	90°	8	60
MPG40812060	8	120°	8	60
MPG4106075	10	60°	10	75
MPG4109075	10	90°	10	75
MPG41012075	10	120°	10	75
MPG4126075	12	60°	12	75
MPG4129075	12	90°	12	75
MPG41212075	12	120°	12	75

通用型四刃内R刀-MPGR4系列

General 4F Rad Mill - MPGR4 series



适合 HRC50 度以下的合金钢、模具钢、预硬钢等材料的倒圆角加工。

Hardness: Below HRC50,
Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: Rounding processing

刀具材质: 硬质合金 (钨钢)

涂层 (coating)

Tool material: cemented carbide(tungsten steel)

ALTiSiN

型号 Size	刃径 CED	圆弧 R	柄径 SHK	总长 OVL
MPGR403005450	3	0.5	4	50
MPGR402010450	2	1	4	50
MPGR401015450	1	1.5	4	50
MPGR403015650	3	1.5	6	50
MPGR402020650	2	2	6	50
MPGR403025850	3	2.5	8	50
MPGR402030850	2	3	8	50
MPGR403025860	3	2.5	8	60
MPGR402030860	2	3	8	60
MPGR4030351060	3	3.5	10	60
MPGR4020401060	2	4	10	60
MPGR4030351075	3	3.5	10	75
MPGR4020401075	2	4	10	75
MPGR4020501260	2	5	12	60
MPGR4020501275	2	5	12	75
MPGR4020601475	2	6	14	75
MPGR4020701680	2	7	16	80
MPGR4020801880	2	8	18	80
MPGR4020902080	2	9	20	80

高效四刃铣刀-MPF4系列

Efficient 4-F Flat Mill - MPF4 series



不等齿距, 不等螺旋角, U型槽设计, 适合 HRC50 度以下的合金钢、模具钢、预硬钢的高效高进给加工。

Designing: Unequal Pitch and helix angle, U-shaped chip designing.
Hardness: Below HRC50,
Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High-speed and feed Processing.

刀具材质: 硬质合金 (钨钢)

涂层 (coating)

Tool material: cemented carbide(tungsten steel)

ALTiSiN

型号 Size	刃径 CED	刃长 CEL	柄径 SHK	总长 OVL
MPF4010450	1.0	3	4	50
MPF40150450	1.5	4	4	50
MPF4020450	2.0	6	4	50
MPF40250450	2.5	8	4	50
MPF4030450	3.0	9	4	50
MPF40350450	3.5	10	4	50
MPF4040450	4.0	12	4	50
MPF4050650	5.0	13	6	50
MPF4060650	6.0	16	6	50
MPF4080860	8.0	20	8	60
MPF4101075	10.0	25	10	75
MPF4121275	12.0	30	12	75
MPF41414100	14.0	45	14	100
MPF41616100	16.0	45	16	100
MPF41818100	18.0	45	18	100
MPF42020100	20.0	45	20	100

高效四刃圆鼻铣刀-MPFR4系列

Efficient 4-F Bull nose Mill -MPFR4 series



不等齿距，不等螺旋角，U型槽设计，适合 HRC50 度以下的合金钢、模具钢、预硬钢的高效高进给加工。

Designing: Unequal Pitch and helix angle, U-shaped chip designing.
Hardness: Below HRC50,
Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High-speed and feed Processing.

刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					ALTiSiN
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MPFR401010450	1.0	3	0.1	4	50
MPFR401020450	1.0	3	0.2	4	50
MPFR402020450	2.0	6	0.2	4	50
MPFR402030450	2.0	6	0.3	4	50
MPFR403020450	3.0	8	0.2	4	50
MPFR403030450	3.0	8	0.3	4	50
MPFR404030450	4.0	10	0.3	4	50
MPFR404050450	4.0	10	0.5	4	50
MPFR406050650	6.0	15	0.5	6	50
MPFR406100650	6.0	15	1.0	6	50
MPFR408050860	8.0	20	0.5	8	60
MPFR408100860	8.0	20	1.0	8	60
MPFR410051075	10.0	25	0.5	10	75
MPFR410101075	10.0	25	1.0	10	75
MPFR410201075	10.0	25	2.0	10	75
MPFR412101275	12.0	30	1.0	12	75
MPFR412201275	12.0	30	2.0	12	75
MPFR412301275	12.0	30	3.0	12	75
MPFR4161016100	16.0	45	1.0	16	100
MPFR4162016100	16.0	45	2.0	16	100
MPFR4163016100	16.0	45	3.0	16	100

加强型高效铣刀-MPFX4系列

Reinforced E-4F Flat Mill - MPFX4 series



不等齿距，不等螺旋角，U型槽设计，适合 HRC50 度以下的合金钢、模具钢、预硬钢的高效高进给加工，较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch and helix angle, U-shaped chip designing.
Hardness: Below HRC50,Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High-speed and feed Processing.
Advantage: Higher processing accuracy and tooling life when comparing General series based on higher lever coating material etc.

刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					AlCrTiSiN
型号	刃径	刃长	柄径	总长	
Size	CED	CEL	SHK	OVL	
MPFX4010450	1.0	3	4	50	
MPFX40150450	1.5	4	4	50	
MPFX4020450	2.0	6	4	50	
MPFX40250450	2.5	8	4	50	
MPFX4030450	3.0	9	4	50	
MPFX40350450	3.5	10	4	50	
MPFX4040450	4.0	12	4	50	
MPFX4050650	5.0	13	6	50	
MPFX4060650	6.0	16	6	50	
MPFX4080860	8.0	20	8	60	
MPFX4101075	10.0	25	10	75	
MPFX4121275	12.0	30	12	75	
MPFX41414100	14.0	45	14	100	
MPFX41616100	16.0	45	16	100	
MPFX41818100	18.0	45	18	100	
MPFX42020100	20.0	45	20	100	

加强型高效四刃圆鼻铣刀-MPFRX4系列

Reinforced E-4F Bull nose Mill - MPFRX4 series



不等齿距，不等螺旋角，U型槽设计，适合 HRC50 度以下的合金钢、模具钢、预硬钢的高效高进给加工，较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch and helix angle, U-shaped chip designing.
Hardness: Below HRC50, Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: High-speed and feed Processing.
Advantage: Higher processing accuracy and tooling life when comparing General series based on higher lever coating material etc.

刀具材质：硬质合金（钨钢）					涂层（coating）
Tool material: cemented carbide(tungsten steel)					ALCrTiSiN
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MPFRX401010450	1.0	3	0.1	4	50
MPFRX401020450	1.0	3	0.2	4	50
MPFRX402020450	2.0	6	0.2	4	50
MPFRX402030450	2.0	6	0.3	4	50
MPFRX403020450	3.0	8	0.2	4	50
MPFRX403030450	3.0	8	0.3	4	50
MPFRX404030450	4.0	10	0.3	4	50
MPFRX404050450	4.0	10	0.5	4	50
MPFRX406050650	6.0	15	0.5	6	50
MPFRX406100650	6.0	15	1.0	6	50
MPFRX408050860	8.0	20	0.5	8	60
MPFRX408100860	8.0	20	1.0	8	60
MPFRX410051075	10.0	25	0.5	10	75
MPFRX410101075	10.0	25	1.0	10	75
MPFRX410201075	10.0	25	2.0	10	75
MPFRX412101275	12.0	30	1.0	12	75
MPFRX412201275	12.0	30	2.0	12	75
MPFRX412301275	12.0	30	3.0	12	75
MPFRX4161016100	16.0	45	1.0	16	100
MPFRX4162016100	16.0	45	2.0	16	100
MPFRX4163016100	16.0	45	3.0	16	100

多功能铣刀-MPK4系列

Multifunctional Mill - MPK4 series



不等齿距，不等螺旋角，不等芯厚设计，适用于铣槽，铣面，侧铣等多种加工方式。

Designing: Unequal Pitch, helix angle and unequal core thickness designing.
Application: Grooving, Horizontal/Vertical .etc Milling methods.

刀具材质：硬质合金（钨钢）				涂层（coating）
Tool material: cemented carbide(tungsten steel)				ALTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MPK4040450	4.0	12	4	50
MPK4050650	5.0	13	6	50
MPK4060650	6.0	16	6	50
MPK4080860	8.0	20	8	60
MPK4101075	10.0	25	10	75
MPK4121275	12.0	30	12	75
MPK41414100	14.0	45	14	100
MPK41616100	16.0	45	16	100
MPK41818100	18.0	45	18	100
MPK42020100	20.0	45	20	100

加强型多功能铣刀-MPKX4系列

Reinforced Multi-mill - MPKX4 series



不等齿距, 不等螺旋角, 不等芯厚设计, 适用于铣槽, 铣面, 侧铣等多种加工方式, 较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch, helix angle and unequal core thickness designing.
Application: Grooving, Horizontal/Vertical .etc Milling methods.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AlCrTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MPKX4040450	4.0	12	4	50
MPKX4050650	5.0	13	6	50
MPKX4060650	6.0	16	6	50
MPKX4080860	8.0	20	8	60
MPKX4101075	10.0	25	10	75
MPKX4121275	12.0	30	12	75
MPKX41414100	14.0	45	14	100
MPKX41616100	16.0	45	16	100
MPKX41818100	18.0	45	18	100
MPKX42020100	20.0	45	20	100

通用型模架刀-MPS4系列

General Mold Milling - MPS4 series



不等齿距, 45度螺旋角, 独特的倒锥设计, 适用于模胚、模架的粗、精加工。

Designing: Unequal Pitch, 45° helix angle and Special Back Taper designing.
Application: Rough to Fine Processing of Mold production

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				黑纳米 nCo ³
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MPS4010450	1	3	4	50
MPS40150450	1.5	4	4	50
MPS4020450	2	6	4	50
MPS40251450	2.5	8	4	50
MPS4030450	3	9	4	50
MPS4030475	3	12	4	75
MPS40304100	3	15	4	100
MPS4040450	4	12	4	50
MPS4040475	4	15	4	75
MPS40404100	4	20	4	100
MPS4050650	5	15	6	50
MPS4050675	5	20	6	75
MPS40506100	5	25	6	100
MPS4060650	6	18	6	50
MPS4060675	6	30	6	75
MPS40606100	6	35	6	100
MPS4080860	8	24	8	60
MPS4080875	8	35	8	75
MPS40808100	8	40	8	100
MPS4101075	10	35	10	75
MPS41010100	10	52	10	100
MPS4121275	12	36	12	75
MPS41212100	12	52	12	100

加强型模架刀-MPSX4系列

Reinforced Die Mill - MPSX4 series



不等齿距, 45度螺旋角, 独特的倒锥设计, 适用于模胚、模架的粗、精加工, 较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch, 45° helix angle and Special Back Taper designing.
Application: Rough to Fine processing of mold production.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALCrN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MPSX4010450	1	3	4	50
MPSX40150450	1.5	4	4	50
MPSX4020450	2	6	4	50
MPSX40251450	2.5	8	4	50
MPSX4030450	3	9	4	50
MPSX4030475	3	12	4	75
MPSX40304100	3	15	4	100
MPSX4040450	4	12	4	50
MPSX4040475	4	15	4	75
MPSX40404100	4	20	4	100
MPSX4050650	5	15	6	50
MPSX4050675	5	20	6	75
MPSX40506100	5	25	6	100
MPSX4060650	6	18	6	50
MPSX4060675	6	30	6	75
MPSX40606100	6	35	6	100
MPSX4080860	8	24	8	60
MPSX4080875	8	35	8	75
MPSX40808100	8	40	8	100
MPSX4101075	10	35	10	75
MPSX41010100	10	52	10	100
MPSX4121275	12	36	12	75
MPSX41212100	12	52	12	100

高硬二刃铣刀-MHE2系列

Hardened 2F Flat Mill - MHE2 series



适合高速、中速半精及精加工淬火钢、预硬钢、工具钢、铸铁等高硬材料。

Material: Hardened Steel, Tool steel, Cast iron...etc High hardness Materials.
Application: Semi-finishing to Fine-finishing in Medium to high speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				ALCrTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MHE2010450	1.0	3	4	50
MHE20150450	1.5	4	4	50
MHE2020450	2.0	6	4	50
MHE20250450	2.5	8	4	50
MHE2030450	3.0	8	4	50
MHE2040450	4.0	12	4	50
MHE2050550	5.0	13	5	50
MHE2050650	5.0	13	6	50
MHE2060650	6.0	16	6	50
MHE2080860	8.0	20	8	60
MHE2101075	10.0	25	10	75
MHE2121275	12.0	30	12	75
MHE21414100	14.0	45	14	100
MHE21616100	16.0	45	16	100
MHE21818100	18.0	45	18	100
MHE22020100	20.0	45	20	100

高硬四刃铣刀-MHE4系列

Hardened 4F Flat Mill - MHE4 series



适合高速、中速半精及精加工淬火钢、预硬钢、工具钢、铸铁等高硬材料。

Material: Hardened Steel, Tool steel, Cast iron...etc High hardness Materials.
Application: Semi-finishing to Fine-finishing in Medium to high speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AlCrTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MHE4010450	1.0	3	4	50
MHE40150450	1.5	4	4	50
MHE4020450	2.0	6	4	50
MHE40250450	2.5	8	4	50
MHE4030450	3.0	8	4	50
MHE4040450	4.0	12	4	50
MHE4050550	5.0	13	5	50
MHE4050650	5.0	13	6	50
MHE4060650	6.0	16	6	50
MHE4080860	8.0	20	8	60
MHE4101075	10.0	25	10	75
MHE4121275	12.0	30	12	75
MHE41414100	14.0	45	14	100
MHE41616100	16.0	45	16	100
MHE41818100	18.0	45	18	100
MHE42020100	20.0	45	20	100

高硬型六刃铣刀-MHE6系列

Hardened 6F Flat Mill - MHE6 series



适合高速、中速半精及精加工淬火钢、预硬钢、工具钢、铸铁等高硬材料。

Material: Hardened Steel, Tool steel, Cast iron...etc High hardness Materials.
Application: Semi-finishing to Fine-finishing in Medium to high speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AlCrTiSiN
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MHE6010450	1.0	3	4	50
MHE60150450	1.5	4	4	50
MHE6020450	2.0	6	4	50
MHE60250450	2.5	8	4	50
MHE6030450	3.0	8	4	50
MHE6040450	4.0	12	4	50
MHE6050550	5.0	13	5	50
MHE6050650	5.0	13	6	50
MHE6060650	6.0	16	6	50
MHE6080860	8.0	20	8	60
MHE6101075	10.0	25	10	75
MHE6121275	12.0	30	12	75
MHE61414100	14.0	45	14	100
MHE61616100	16.0	45	16	100
MHE61818100	18.0	45	18	100
MHE62020100	20.0	45	20	100

高硬二刃球刀-MHB2系列
Hardened 2F Ball Mill -MHB2 series



适合高速、中速半精及精加工淬火钢、预硬钢、工具钢、铸铁等高硬材料。

Material: Hardened Steel, Tool steel, Cast iron...etc High hardness Materials.
Application: Semi-finishing to Fine-finishing in Medium to high speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AlCrTiSiN
型号	刃径/球半径	刃长	柄径	总长
Size	CED/R	CEL	SHK	OVL
MHB2010450	1.0/0.5	2	4	50
MHB20150450	1.5/0.75	3	4	50
MHB2020450	2.0/1.0	4	4	50
MHB20250450	2.5/1.25	5	4	50
MHB2030450	3.0/1.5	6	4	50
MHB2040450	4.0/2.0	8	4	50
MHB2050550	5.0/2.5	10	5	50
MHB2050650	5.0/2.5	10	6	50
MHB2060650	6.0/3.0	12	6	50
MHB2080860	8.0/4.0	16	8	60
MHB2101075	10.0/5.0	20	10	75
MHB2121275	12.0/6.0	24	12	75
MHB21414100	14.0/7.0	28	14	100
MHB21616100	16.0/8.0	32	16	100
MHB21818100	18.0/9.0	36	18	100
MHB22020100	20.0/10.0	40	20	100

高硬四刃球刀-MHB4系列
Hardened 4F Ball Mill -MHB4 series



适合高速、中速半精及精加工淬火钢、预硬钢、工具钢、铸铁等高硬材料。

Material: Hardened Steel, Tool steel, Cast iron...etc High hardness Materials.
Application: Semi-finishing to Fine-finishing in Medium to high speed.

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AlCrTiSiN
型号	刃径/球半径	刃长	柄径	总长
Size	CED/R	CEL	SHK	OVL
MHB4010450	1.0/0.5	2	4	50
MHB40150450	1.5/0.75	3	4	50
MHB4020450	2.0/1.0	4	4	50
MHB40250450	2.5/1.25	5	4	50
MHB4030450	3.0/1.5	6	4	50
MHB4040450	4.0/2.0	8	4	50
MHB4050550	5.0/2.5	10	5	50
MHB4050650	5.0/2.5	10	6	50
MHB4060650	6.0/3.0	12	6	50
MHB4080860	8.0/4.0	16	8	60
MHB4101075	10.0/5.0	20	10	75
MHB4121275	12.0/6.0	24	12	75
MHB41414100	14.0/7.0	28	14	100
MHB41616100	16.0/8.0	32	16	100
MHB41818100	18.0/9.0	36	18	100
MHB42020100	20.0/10.0	40	20	100

高硬四刃圆鼻铣刀-MHR4系列

Hardened 4F Bull nose Mill - MHR4 series



适合高速、中速半精及精加工淬火钢、预硬钢、工具钢、铸铁等高硬材料。

Material: Hardened Steel, Tool steel, Cast iron...etc High hardness Materials.
Application: Semi-finishing to Fine-finishing in Medium to high speed.

刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					AlCrTiSiN
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MHR401010450	1.0	3	0.1	4	50
MHR401020450	1.0	3	0.2	4	50
MHR402020450	2.0	6	0.2	4	50
MHR402030450	2.0	6	0.3	4	50
MHR403020450	3.0	8	0.2	4	50
MHR403030450	3.0	8	0.3	4	50
MHR404030450	4.0	10	0.3	4	50
MHR404050450	4.0	10	0.5	4	50
MHR405050550	5.0	13	0.5	5	50
MHR405100550	5.0	13	1.0	5	50
MHR406050650	6.0	15	0.5	6	50
MHR406100650	6.0	15	1.0	6	50
MHR408050860	8.0	20	0.5	8	60
MHR408100860	8.0	20	1.0	8	60
MHR410051075	10.0	25	0.5	10	75
MHR410101075	10.0	25	1.0	10	75
MHR410201075	10.0	25	2.0	10	75
MHR412101275	12.0	30	1.0	12	75
MHR412201275	12.0	30	2.0	12	75
MHR412301275	12.0	30	3.0	12	75

通用型二刃铝用铣刀-MAE2系列

General 2F Flat Mill (Al) - MAE2 series



适用于铝, 铜等有色金属加工。

Materials: non-ferrous metal like Aluminum, Cooper.
Application: General processing

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				No coating
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MDAE2010450	1.0	3	4	50
MAE20150450	1.5	4	4	50
MAE2020450	2.0	6	4	50
MAE20250450	2.5	8	4	50
MAE2030450	3.0	8	4	50
MAE20350450	3.5	10	4	50
MAE2040450	4.0	12	4	50
MAE2040475	4.0	15	4	75
MAE2050550	5.0	13	6	50
MAE2060650	6.0	16	6	50
MAE2060675	6.0	20	6	75
MAE20606100	6.0	30	6	100
MAE20606150	6.0	35	6	150
MAE2080860	8.0	20	8	60
MAE2080875	8.0	25	8	75
MAE20808100	8.0	35	8	100
MAE20808150	8.0	40	8	150
MAE2101075	10.0	25	10	75
MAE21010100	10.0	40	10	100
MAE21010150	10.0	55	10	150
MAE2121275	12.0	30	12	75
MAE21212100	12.0	45	12	100
MAE21212150	12.0	60	12	150
MAE21414100	14.0	45	14	100
MAE21414150	14.0	60	14	150
MAE21616100	16.0	45	16	100
MAE21616150	16.0	70	16	150
MAE21818100	18.0	45	18	100
MAE21818150	18.0	70	18	150
MAE22020100	20.0	45	20	100
MAE22020150	20.0	70	20	150

通用型三刃铝用铣刀-MAE3系列

General 3F Flat Mill (Al)— MAE3 series



适用于铝，铜等有色金属加工。				
Materials: non-ferrous metal like Aluminum , Cooper. Application: General processing				
刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				No coating
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MAE3010450	1.0	3	4	50
MAE30150450	1.5	4	4	50
MAE3020450	2.0	6	4	50
MAE30250450	2.5	8	4	50
MAE3030450	3.0	8	4	50
MAE30350450	3.5	10	4	50
MAE3040450	4.0	12	4	50
MAE3040475	4.0	15	4	75
MAE3050550	5.0	13	6	50
MAE3060650	6.0	16	6	50
MAE3060675	6.0	20	6	75
MAE30606100	6.0	30	6	100
MAE30606150	6.0	35	6	150
MAE3080860	8.0	20	8	60
MAE3080875	8.0	25	8	75
MAE30808100	8.0	35	8	100
MAE30808150	8.0	40	8	150
MAE3101075	10.0	25	10	75
MAE31010100	10.0	40	10	100
MAE31010150	10.0	55	10	150
MAE3121275	12.0	30	12	75
MAE31212100	12.0	45	12	100
MAE31212150	12.0	60	12	150
MAE31414100	14.0	45	14	100
MAE31414150	14.0	60	14	150
MAE31616100	16.0	45	16	100
MAE31616150	16.0	70	16	150
MAE31818100	18.0	45	18	100
MAE31818150	18.0	70	18	150
MAE32020100	20.0	45	20	100
MAE32020150	20.0	70	20	150

通用型二刃铝用球刀-MAB2系列

General 2F Ball Mill (Al) -MAB2 series



适用于铝，铜等有色金属的自由曲面加工。				
Materials: of Non-ferrous metal like Aluminum, Cooper..etc Application: NC Copying processing				
刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				No coating
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MAB2010450	1.0	2	4	50
MAB20150450	1.5	3	4	50
MAB2020450	2.0	4	4	50
MAB2030450	3.0	6	4	50
MAB2040450	4.0	8	4	50
MAB2040475	4.0	8	4	75
MAB2050550	5.0	10	6	50
MAB2060650	6.0	12	6	50
MAB2060675	6.0	12	6	75
MAB20606100	6.0	12	6	100
MAB20606150	6.0	12	6	150
MAB2080860	8.0	16	8	60
MAB2080875	8.0	16	8	75
MAB20808100	8.0	16	8	100
MAB20808150	8.0	16	8	150
MAB2101075	10.0	20	10	75
MAB21010100	10.0	20	10	100
MAB21010150	10.0	20	10	150
MAB2121275	12.0	24	12	75
MAB21212100	12.0	24	12	100
MAB21212150	12.0	24	12	150
MAB21414100	14.0	28	14	100
MAB21414150	14.0	28	14	150
MAB21616100	16.0	32	16	100
MAB21616150	16.0	32	16	150
MAB21818100	18.0	36	18	100
MAB21818150	18.0	36	18	150
MAB22020100	20.0	40	20	100
MAB22020150	20.0	40	20	150

通用型二刃铝用圆鼻铣刀-MAR2系列

General 2F Bull Mill (Al) - MAR2 series



适用于铝 铜等有色金属加工					
Materials: non-ferrous metal like Aluminum , Cooper. Application: General processing					
刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					No coating
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MAR2010010450	1.0	3	0.1	4	50
MAR2010020450	1.0	3	0.2	4	50
MAR2020020450	2.0	6	0.2	4	50
MAR2020030450	2.0	6	0.3	4	50
MAR2030020450	3.0	8	0.2	4	50
MAR2030030450	3.0	8	0.3	4	50
MAR2040030450	4.0	10	0.3	4	50
MAR2040050450	4.0	10	0.5	4	50
MAR2050050550	5.0	13	0.5	5	50
MAR2050100550	5.0	13	1.0	5	50
MAR2060050650	6.0	15	0.5	6	50
MAR2060100650	6.0	15	1.0	6	50
MAR2060050675	6.0	15	0.5	6	75
MAR2060100675	6.0	15	1.0	6	75
MAR2080050860	8.0	20	0.5	8	60
MAR2080100860	8.0	20	1.0	8	60
MAR20800508100	8.0	20	0.5	8	100
MAR20801008100	8.0	20	1.0	8	100
MAR2100051075	10.0	25	0.5	10	75
MAR2100101075	10.0	25	1.0	10	75
MAR2100201075	10.0	25	2.0	10	75
MAR21000510100	10.0	25	0.5	10	100
MAR21001010100	10.0	25	1.0	10	100
MAR21002010100	10.0	25	2.0	10	100
MAR2120101275	12.0	30	1.0	12	75
MAR2120201275	12.0	30	2.0	12	75
MAR2120301275	12.0	30	3.0	12	75
MAR21201012100	12.0	30	1.0	12	100
MAR21202012100	12.0	30	2.0	12	100
MAR21203012100	12.0	30	3.0	12	100

通用型三刃铝用圆鼻刀-MAR3系列

General 3F Bull Mill (Al) -MAR3 series



适用于铝, 铜等有色金属加工。					
Materials: non-ferrous metal like Aluminum , Cooper. Application: General processing					
刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					No coating
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MAR3010010450	1.0	3	0.1	4	50
MAR3010020450	1.0	3	0.2	4	50
MAR3020020450	2.0	6	0.2	4	50
MAR3020030450	2.0	6	0.3	4	50
MAR3030020450	3.0	8	0.2	4	50
MAR3030030450	3.0	8	0.3	4	50
MAR3040030450	4.0	10	0.3	4	50
MAR3040050450	4.0	10	0.5	4	50
MAR3050050550	5.0	13	0.5	5	50
MAR3050100550	5.0	13	1.0	5	50
MAR3060050650	6.0	15	0.5	6	50
MAR3060100650	6.0	15	1.0	6	50
MAR3060050675	6.0	15	0.5	6	75
MAR3060100675	6.0	15	1.0	6	75
MAR3080050860	8.0	20	0.5	8	60
MAR3080100860	8.0	20	1.0	8	60
MAR30800508100	8.0	20	0.5	8	100
MAR30801008100	8.0	20	1.0	8	100
MAR3100051075	10.0	25	0.5	10	75
MAR3100101075	10.0	25	1.0	10	75
MAR3100201075	10.0	25	2.0	10	75
MAR31000510100	10.0	25	0.5	10	100
MAR31001010100	10.0	25	1.0	10	100
MAR31002010100	10.0	25	2.0	10	100
MAR3120101275	12.0	30	1.0	12	75
MAR3120201275	12.0	30	2.0	12	75
MAR3120301275	12.0	30	3.0	12	75
MAR31201012100	12.0	30	1.0	12	100
MAR31202012100	12.0	30	2.0	12	100
MAR31203012100	12.0	30	3.0	12	100

通用型三刃铝用粗皮铣刀-MAV3系列

General 3F Rough (Flat) Mill (Al)—MAV3 series



适合高、中速粗铣加工铝、铜等有色金属。

Materials: non-ferrous metal like Aluminum, Cooper
Application: Rough-milling in medium to high speed.

刀具材质: 硬质合金 (钨钢)

涂层 (coating)

Tool material: cemented carbide(tungsten steel)

No coating

型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MAV3040450	4.0	12	4	50
MAV3040475	4.0	15	4	75
MAV30404100	4.0	20	4	100
MAV3050550	5.0	13	5	50
MAV3050650	5.0	13	6	50
MAV3060650	6.0	15	6	50
MAV3060675	6.0	20	6	75
MAV30606100	6.0	30	6	100
MAV30606150	6.0	35	6	150
MAV3080860	8.0	20	8	60
MAV3080875	8.0	25	8	75
MAV30808100	8.0	35	8	100
MAV30808150	8.0	40	8	150
MAV3101075	10.0	25	10	75
MAV31010100	10.0	40	10	100
MAV31010150	10.0	55	10	150
MAV3121275	12.0	30	12	75
MAV31212100	12.0	45	12	100
MAV31212150	12.0	60	12	150
MAV31414100	14.0	45	14	100
MAV31414150	14.0	60	14	150
MAV31616100	16.0	45	16	100
MAV31616150	16.0	70	16	150
MAV31818100	18.0	45	18	100
MAV31818150	18.0	70	18	150
MAV32020100	20.0	45	20	100
MAV32020150	20.0	70	20	150

通用型三刃铝用倒角刀-MAG3系列

General 3F Chamfer Mill (Al)-MAG3 series



适合 HRC50 度以下的合金钢、模具钢、预硬钢等材料的倒角加工。

Hardness: Below HRC50,
Materials: Alloy steel, Mold steel, Pre-hardened steel..etc.
Application: Chamfering processing

刀具材质: 硬质合金 (钨钢)

涂层 (coating)

Tool material: cemented carbide(tungsten steel)

No coating

型号	刃径	角度	柄径	总长
Size	CED	ANGLE	SHK	OVL
MAG3036050	3	60°	3	50
MAG3039050	3	90°	3	50
MAG30312050	3	120°	3	50
MAG3046050	4	60°	4	50
MAG3049050	4	90°	4	50
MAG30412050	4	120°	4	50
MAG3056050	5	60°	5	50
MAG3059050	5	90°	5	50
MAG30512050	5	120°	5	50
MAG3066050	6	60°	6	50
MAG3069050	6	90°	6	50
MAG30612050	6	120°	6	50
MAG3086060	8	60°	8	60
MAG3089060	8	90°	8	60
MAG30812060	8	120°	8	60
MAG3106075	10	60°	10	75
MAG3109075	10	90°	10	75
MAG31012075	10	120°	10	75
MAG3126075	12	60°	12	75
MAG3129075	12	90°	12	75
MAG31212075	12	120°	12	75

高效三刃铝用铣刀-MAM3系列

Efficient 3F Flat Mill (Al) - MAM3 series



不等齿距，不等螺旋角设计，适用于铝、铜等有色金属高效高光加工。

Designing: Unequal Pitch and helix angle designing.
Materials: Non-ferrous metal like Aluminum, Cooper..etc
Application: Polishing Processing

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				No coating
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MAM3010450	1.0	3	4	50
MAM30150450	1.5	4	4	50
MAM3020450	2.0	6	4	50
MAM30250450	2.5	8	4	50
MAM3030450	3.0	9	4	50
MAM30350450	3.5	10	4	50
MAM3040450	4.0	12	4	50
MAM3050650	5.0	13	6	50
MAM3060650	6.0	16	6	50
MAM3080860	8.0	20	8	60
MAM3101075	10.0	25	10	75
MAM3121275	12.0	30	12	75
MAM31414100	14.0	45	14	100
MAM31616100	16.0	45	16	100
MAM31818100	18.0	45	18	100
MAM32020100	20.0	45	20	100

加强型高效三刃铝用铣刀-MAMX3系列

Reinforced E-3F Flat Mill (Al) - MAMX3 series



不等齿距，不等螺旋角设计，适用于铝、铜等有色金属高效高光加工,较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch and helix angle designing.
Materials: Non-ferrous metal like Aluminum, Cooper..etc
Application: Polishing Processing

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				No coating
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MAMX3010450	1.0	3	4	50
MAMX30150450	1.5	4	4	50
MAMX3020450	2.0	6	4	50
MAMX30250450	2.5	8	4	50
MAMX3030450	3.0	9	4	50
MAMX30350450	3.5	10	4	50
MAMX3040450	4.0	12	4	50
MAMX3050650	5.0	13	6	50
MAMX3060650	6.0	16	6	50
MAMX3080860	8.0	20	8	60
MAMX3101075	10.0	25	10	75
MAMX3121275	12.0	30	12	75
MAMX31414100	14.0	45	14	100
MAMX31616100	16.0	45	16	100
MAMX31818100	18.0	45	18	100
MAMX32020100	20.0	45	20	100

高效三刃铝用圆鼻铣刀-MAMR3系列

Efficient 3F Bull Mill (Al) - MAMR3 series



不等齿距，不等螺旋角设计，适用于铝、铜等有色金属高效高光加工。

Designing: Unequal Pitch and helix angle designing.
Materials: Non-ferrous metal like Aluminum, Cooper..etc
Application: Polishing Processing

刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					No coating
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MAMR3010010450	1.0	3	0.1	4	50
MAMR3010020450	1.0	3	0.2	4	50
MAMR3020020450	2.0	6	0.2	4	50
MAMR3020030450	2.0	6	0.3	4	50
MAMR3030020450	3.0	8	0.2	4	50
MAMR3030030450	3.0	8	0.3	4	50
MAMR3040030450	4.0	10	0.3	4	50
MAMR3040050450	4.0	10	0.5	4	50
MAMR3060050650	6.0	15	0.5	6	50
MAMR3060100650	6.0	15	1.0	6	50
MAMR3080050860	8.0	20	0.5	8	60
MAMR3080100860	8.0	20	1.0	8	60
MAMR3100051075	10.0	25	0.5	10	75
MAMR3100101075	10.0	25	1.0	10	75
MAMR3100201075	10.0	25	2.0	10	75
MAMR3120101275	12.0	30	1.0	12	75
MAMR3120201275	12.0	30	2.0	12	75
MAMR3120301275	12.0	30	3.0	12	75
MAMR3161016100	16.0	45	1.0	16	100
MAMR3162016100	16.0	45	2.0	16	100
MAMR3163016100	16.0	45	3.0	16	100

加强型高效三刃铝用圆鼻铣刀-MAMRX3系列

Reinforced E-3F Bull Mill (Al) - MAMRX3 series



不等齿距，不等螺旋角设计，适用于铝、铜等有色金属高效高光加工,较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch and helix angle designing.
Materials: Non-ferrous metal like Aluminum, Cooper..etc
Application: Efficient Polishing Processing
Advantage: Life longer due to coating material

刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					No coating
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MAMRX3010010450	1.0	3	0.1	4	50
MAMRX3010020450	1.0	3	0.2	4	50
MAMRX3020020450	2.0	6	0.2	4	50
MAMRX3020030450	2.0	6	0.3	4	50
MAMRX3030020450	3.0	8	0.2	4	50
MAMRX3030030450	3.0	8	0.3	4	50
MAMRX3040030450	4.0	10	0.3	4	50
MAMRX3040050450	4.0	10	0.5	4	50
MAMRX3060050650	6.0	15	0.5	6	50
MAMRX3060100650	6.0	15	1.0	6	50
MAMRX3080050860	8.0	20	0.5	8	60
MAMRX3080100860	8.0	20	1.0	8	60
MAMRX3100051075	10.0	25	0.5	10	75
MAMRX3100101075	10.0	25	1.0	10	75
MAMRX3100201075	10.0	25	2.0	10	75
MAMRX3120101275	12.0	30	1.0	12	75
MAMRX3120201275	12.0	30	2.0	12	75
MAMRX3120301275	12.0	30	3.0	12	75
MAMRX3161016100	16.0	45	1.0	16	100
MAMRX3162016100	16.0	45	2.0	16	100
MAMRX3163016100	16.0	45	3.0	16	100

不锈钢四刃铣刀-MME4系列

4F Flat Mill (SS) — MME4 series



不等齿距，不等螺旋角设计，适用于不锈钢等难加工材料。

Designing: Unequal Pitch and helix angle designing.
Materials: Hard-to-machining Materials like Stainless Steel.
Application: Polishing Processing

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AE
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MME4010450	1.0	3	4	50
MME40150450	1.5	4	4	50
MME4020450	2.0	6	4	50
MME40250450	2.5	8	4	50
MME4030450	3.0	9	4	50
MME40350450	3.5	10	4	50
MME4040450	4.0	12	4	50
MME4050650	5.0	13	6	50
MME4060650	6.0	16	6	50
MME4080860	8.0	20	8	60
MME4101075	10.0	25	10	75
MME4121275	12.0	30	12	75
MME41414100	14.0	45	14	100
MME41616100	16.0	45	16	100
MME41818100	18.0	45	18	100
MME42020100	20.0	45	20	100

不锈钢二刃球刀-MMB2系列

2F Ball Mill (SS) -MMB2 series



适用于不锈钢等难加工材料。

Designing: Unequal Pitch and helix angle designing.
Materials: Hard-to-machining Materials like Stainless Steel.
Application: Polishing Processing

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AE
型号	刃径/球半径	刃长	柄径	总长
Size	CED/R	CEL	SHK	OVL
MMB20060450	0.6/0.3	1.2	4	50
MMB20080450	0.8/0.4	1.6	4	50
MMB2010450	1.0/0.5	2	4	50
MMB20150450	1.5/0.75	3	4	50
MMB2020450	2.0/1.0	4	4	50
MMB20250450	2.5/1.25	5	4	50
MMB2030450	3.0/1.5	6	4	50
MMB20350450	3.5/1.75	7	4	50
MMB2040450	4.0/2.0	8	4	50
MMB2040475	4.0/2.0	8	4	75
MMB20404100	4.0/2.0	8	4	100
MMB2050650	5.0/2.5	10	6	50
MMB2060650	6.0/3.0	12	6	50
MMB2060675	6.0/3.0	12	6	75
MMB20606100	6.0/3.0	12	6	100
MMB20606150	6.0/3.0	12	6	150
MMB2080860	8.0/4.0	16	8	60
MMB2080875	8.0/4.0	16	8	75
MMB20808100	8.0/4.0	16	8	100
MMB20808150	8.0/4.0	16	8	150
MMB2101075	10.0/5.0	20	10	75
MMB210101000	10.0/5.0	20	10	100
MMB21010150	10.0/5.0	20	10	150
MMB2121275	12.0/6.0	24	12	75
MMB21212100	12.0/6.0	24	12	100
MMB21212150	12.0/6.0	24	12	150
MMB21414100	14.0/7.0	28	14	100
MMB21414150	14.0/7.0	28	14	150
MMB21616100	16.0/8.0	32	16	100
MMB21616150	16.0/8.0	32	16	150
MMB21818100	18.0/9.0	36	18	100
MMB21818150	18.0/9.0	36	18	150
MMB22020100	20.0/10.0	40	20	100
MMB22020150	20.0/10.0	40	20	150

不锈钢四刃圆鼻铣刀-MMR4系列

4F Bull nose Mill (SS)—MMR4 series



适用于不锈钢等难加工材料。

Designing: Unequal Pitch and helix angle designing.
Materials: Hard-to-machining Materials like Stainless Steel.
Application: Polishing Processing

刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					AE
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MMR401010450	1.0	3	0.1	4	50
MMR401020450	1.0	3	0.2	4	50
MMR402020450	2.0	6	0.2	4	50
MMR402030450	2.0	6	0.3	4	50
MMR403020450	3.0	8	0.2	4	50
MMR403030450	3.0	8	0.3	4	50
MMR404030450	4.0	10	0.3	4	50
MMR404050450	4.0	10	0.5	4	50
MMR406050650	6.0	15	0.5	6	50
MMR406100650	6.0	15	1.0	6	50
MMR408050860	8.0	20	0.5	8	60
MMR408100860	8.0	20	1.0	8	60
MMR410051075	10.0	25	0.5	10	75
MMR410101075	10.0	25	1.0	10	75
MMR410201075	10.0	25	2.0	10	75
MMR412101275	12.0	30	1.0	12	75
MMR412201275	12.0	30	2.0	12	75
MMR412301275	12.0	30	3.0	12	75
MMR4161016100	16.0	45	1.0	16	100
MMR4162016100	16.0	45	2.0	16	100
MMR4163016100	16.0	45	3.0	16	100

不锈钢四刃粗皮铣刀-MMV4系列

4F Rough (Flat) Mill (SS)-MMV4 series



适合高、中速粗铣不锈钢等难加工材料。

Materials: Hard-to-machining Materials like Stainless Steel.
Application: Rough milling

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AE
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MMV4040450	4.0	12	4	50
MMV4040475	4.0	15	4	75
MMV40404100	4.0	20	4	100
MMV4050550	5.0	13	5	50
MMV4050650	5.0	13	6	50
MMV4060650	6.0	15	6	50
MMV4060675	6.0	20	6	75
MMV40606100	6.0	30	6	100
MMV40606150	6.0	35	6	150
MMV4080860	8.0	20	8	60
MMV4080875	8.0	25	8	75
MMV40808100	8.0	35	8	100
MMV40808150	8.0	40	8	150
MMV4101075	10.0	25	10	75
MMV41010100	10.0	40	10	100
MMV41010150	10.0	55	10	150
MMV4121275	12.0	30	12	75
MMV41212100	12.0	45	12	100
MMV41212150	12.0	60	12	150
MMV41414100	14.0	45	14	100
MMV41414150	14.0	60	14	150
MMV41616100	16.0	45	16	100
MMV41616150	16.0	70	16	150
MMV41818100	18.0	45	18	100
MMV41818150	18.0	70	18	150
MMV42020100	20.0	45	20	100
MMV42020150	20.0	70	20	150

不锈钢四刃倒角刀-MMG4系列

4F Chamfer Mill (SS) — MMG4 series



适合不锈钢等难加工材料的倒角加工。				
Materials: Hard-to-machining Materials like Stainless Steel. Application: Chamfering processing				
刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				AE
型号	刃径	角度	柄径	总长
Size	CED	ANGLE	SHK	OVL
MMG4036050	3	60°	3	50
MMG4039050	3	90°	3	50
MMG40312050	3	120°	3	50
MMG4046050	4	60°	4	50
MMG4049050	4	90°	4	50
MMG40412050	4	120°	4	50
MMG4056050	5	60°	5	50
MMG4059050	5	90°	5	50
MMG40512050	5	120°	5	50
MMG4066050	6	60°	6	50
MMG4069050	6	90°	6	50
MMG40612050	6	120°	6	50
MMG4086060	8	60°	8	60
MMG4089060	8	90°	8	60
MMG40812060	8	120°	8	60
MMG4106075	10	60°	10	75
MMG4109075	10	90°	10	75
MMG41012075	10	120°	10	75
MMG4126075	12	60°	12	75
MMG4129075	12	90°	12	75
MMG41212075	12	120°	12	75

加强型不锈钢四刃铣刀-MMEX4系列

Reinforced 4F Flat Mill (SS)- MMEX4 series



不等齿距, 不等螺旋角设计, 适用于不锈钢等难加工材料,较通用型有更高的精度和使用寿命。				
Designing: Unequal Pitch and helix angle designing. Materials: Hard-to-machining Materials like Stainless Steel. Application: Efficient Processing Advantage: Life longer due to coating material				
刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				PT
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MMEX4010450	1.0	3	4	50
MMEX40150450	1.5	4	4	50
MMEX4020450	2.0	6	4	50
MMEX40250450	2.5	8	4	50
MMEX4030450	3.0	9	4	50
MMEX40350450	3.5	10	4	50
MMEX4040450	4.0	12	4	50
MMEX4050650	5.0	13	6	50
MMEX4060650	6.0	16	6	50
MMEX4080860	8.0	20	8	60
MMEX4101075	10.0	25	10	75
MMEX4121275	12.0	30	12	75
MMEX41414100	14.0	45	14	100
MMEX41616100	16.0	45	16	100
MMEX41818100	18.0	45	18	100
MMEX42020100	20.0	45	20	100

加强型不锈钢二刃球刀-MMBX2系列

Reinforced 2F Flat Mill (SS) -MMBX2 series



适用于不锈钢等难加工材料,较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch and helix angle designing.
Materials: Hard-to-machining Materials like Stainless Steel.
Application: Efficient Processing
Advantage: Life longer due to coating material

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				PT
型号	刃径/球半径	刃长	柄径	总长
Size	CED/R	CEL	SHK	OVL
MMBX20060450	0.6/0.3	1.2	4	50
MMBX20080450	0.8/0.4	1.6	4	50
MMBX2010450	1.0/0.5	2	4	50
MMBX20150450	1.5/0.75	3	4	50
MMBX2020450	2.0/1.0	4	4	50
MMBX20250450	2.5/1.25	5	4	50
MMBX2030450	3.0/1.5	6	4	50
MMBX20350450	3.5/1.75	7	4	50
MMBX2040450	4.0/2.0	8	4	50
MMBX2040475	4.0/2.0	8	4	75
MMBX20404100	4.0/2.0	8	4	100
MMBX2050650	5.0/2.5	10	6	50
MMBX2060650	6.0/3.0	12	6	50
MMBX2060675	6.0/3.0	12	6	75
MMBX20606100	6.0/3.0	12	6	100
MMBX20606150	6.0/3.0	12	6	150
MMBX2080860	8.0/4.0	16	8	60
MMBX2080875	8.0/4.0	16	8	75
MMBX20808100	8.0/4.0	16	8	100
MMBX20808150	8.0/4.0	16	8	150
MMBX2101075	10.0/5.0	20	10	75
MMBX210101000	10.0/5.0	20	10	100
MMBX21010150	10.0/5.0	20	10	150
MMBX2121275	12.0/6.0	24	12	75
MMBX21212100	12.0/6.0	24	12	100
MMBX21212150	12.0/6.0	24	12	150
MMBX21414100	14.0/7.0	28	14	100
MMBX21414150	14.0/7.0	28	14	150
MMBX21616100	16.0/8.0	32	16	100
MMBX21616150	16.0/8.0	32	16	150
MMBX21818100	18.0/9.0	36	18	100
MMBX21818150	18.0/9.0	36	18	150
MMBX22020100	20.0/10.0	40	20	100
MMBX22020150	20.0/10.0	40	20	150

加强型不锈钢四刃圆鼻铣刀-MMRX4系列

Reinforced 4F Bull nose Mill (SS)- MMRX4 series



适用于不锈钢等难加工材料,较通用型有更高的精度和使用寿命。

Designing: Unequal Pitch and helix angle designing.
Materials: Hard-to-machining Materials like Stainless Steel.
Application: Efficient Processing
Advantage: Life longer due to coating material

刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					PT
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MMRX401010450	1.0	3	0.1	4	50
MMRX401020450	1.0	3	0.2	4	50
MMRX402020450	2.0	6	0.2	4	50
MMRX402030450	2.0	6	0.3	4	50
MMRX403020450	3.0	8	0.2	4	50
MMRX403030450	3.0	8	0.3	4	50
MMRX404030450	4.0	10	0.3	4	50
MMRX404050450	4.0	10	0.5	4	50
MMRX406050650	6.0	15	0.5	6	50
MMRX406100650	6.0	15	1.0	6	50
MMRX408050860	8.0	20	0.5	8	60
MMRX408100860	8.0	20	1.0	8	60
MMRX410051075	10.0	25	0.5	10	75
MMRX410101075	10.0	25	1.0	10	75
MMRX410201075	10.0	25	2.0	10	75
MMRX412101275	12.0	30	1.0	12	75
MMRX412201275	12.0	30	2.0	12	75
MMRX412301275	12.0	30	3.0	12	75
MMRX4121012100	12.0	30	1.0	12	100
MMRX4122012100	12.0	30	2.0	12	100
MMRX4123012100	12.0	30	3.0	12	100
MMRX4161016100	16.0	45	1.0	16	100
MMRX4162016100	16.0	45	2.0	16	100
MMRX4163016100	16.0	45	3.0	16	100

加强型不锈钢四刃粗皮铣刀-MMVX4系列

Reinforced 4F Rough (Flat) Mill (SS)- MMVX4 series



适合高、中速粗铣不锈钢等难加工材料,较通用型有更高的精度和使用寿命。

Materials: Hard-to-machining Materials like Stainless Steel.
Application: Medium to High speed Rough milling
Advantage: Life longer due to coating material

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				PT
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MMVX4040450	4.0	12	4	50
MMVX4040475	4.0	15	4	75
MMVX40404100	4.0	20	4	100
MMVX4050550	5.0	13	5	50
MMVX4050650	5.0	13	6	50
MMVX4060650	6.0	15	6	50
MMVX4060675	6.0	20	6	75
MMVX40606100	6.0	30	6	100
MMVX40606150	6.0	35	6	150
MMVX4080860	8.0	20	8	60
MMVX4080875	8.0	25	8	75
MMVX40808100	8.0	35	8	100
MMVX40808150	8.0	40	8	150
MMVX4101075	10.0	25	10	75
MMVX41010100	10.0	40	10	100
MMVX41010150	10.0	55	10	150
MMVX4121275	12.0	30	12	75
MMVX41212100	12.0	45	12	100
MMVX41212150	12.0	60	12	150
MMVX41414100	14.0	45	14	100
MMVX41414150	14.0	60	14	150
MMVX41616100	16.0	45	16	100
MMVX41616150	16.0	70	16	150
MMVX41818100	18.0	45	18	100
MMVX41818150	18.0	70	18	150
MMVX42020100	20.0	45	20	100
MMVX42020150	20.0	70	20	150

加强型不锈钢四刃倒角刀-MMGX4系列

Reinforced 4F Chamfer Mill (SS) -MMGX4 series



适合不锈钢等难加工材料的倒角加工,较通用型有更高的精度和使用寿命。

Materials: Hard-to-machining Materials like Stainless Steel.
Application: Chamfering Processing
Advantage: Life longer due to coating material

刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				PT
型号	刃径	角度	柄径	总长
Size	CED	ANGLE	SHK	OVL
MMGX4036050	3	60°	3	50
MMGX4039050	3	90°	3	50
MMGX40312050	3	120°	3	50
MMGX4046050	4	60°	4	50
MMGX4049050	4	90°	4	50
MMGX40412050	4	120°	4	50
MMGX4056050	5	60°	5	50
MMGX4059050	5	90°	5	50
MMGX40512050	5	120°	5	50
MMGX4066050	6	60°	6	50
MMGX4069050	6	90°	6	50
MMGX40612050	6	120°	6	50
MMGX4086060	8	60°	8	60
MMGX4089060	8	90°	8	60
MMGX40812060	8	120°	8	60
MMGX4106075	10	60°	10	75
MMGX4109075	10	90°	10	75
MMGX41012075	10	120°	10	75
MMGX4126075	12	60°	12	75
MMGX4129075	12	90°	12	75
MMGX41212075	12	120°	12	75

钛合金四刃铣刀-MSE4系列

4F Flat Mill (Ti-Alloy) - MSE4 series



适合加工钛合金等难加工材料。				
Materials: Hard-to-machining Materials like Titanium Alloy Application: General Processing				
刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				PT
型号	刃径	刃长	柄径	总长
Size	CED	CEL	SHK	OVL
MSE4040450	4.0	12	4	50
MSE4050550	5.0	13	5	50
MSE4050650	5.0	13	6	50
MSE4060650	6.0	16	6	50
MSE4080860	8.0	20	8	60
MSE4101075	10.0	25	10	75
MSE4121275	12.0	30	12	75
MSE41414100	14.0	45	14	100
MSE41616100	16.0	45	16	100
MSE41818100	18.0	45	18	100
MSE42020100	20.0	45	20	100

钛合金四刃圆鼻铣刀-MSR4系列

4F Bull nose Mill (Ti-Alloy) - MSR4 series



适合加工钛合金等难加工材料。					
Materials: Hard-to-machining Materials like Titanium Alloy Application: General Processing					
刀具材质: 硬质合金 (钨钢)					涂层 (coating)
Tool material: cemented carbide(tungsten steel)					PT
型号	刃径	刃长	圆角	柄径	总长
Size	CED	CEL	R	SHK	OVL
MSR401010450	1.0	3	0.1	4	50
MSR401020450	1.0	3	0.2	4	50
MSR402020450	2.0	6	0.2	4	50
MSR402030450	2.0	6	0.3	4	50
MSR403020450	3.0	8	0.2	4	50
MSR403030450	3.0	8	0.3	4	50
MSR404030450	4.0	10	0.3	4	50
MSR404050450	4.0	10	0.5	4	50
MSR405050550	5.0	13	0.5	5	50
MSR405100550	5.0	13	1.0	5	50
MSR406050650	6.0	15	0.5	6	50
MSR406100650	6.0	15	1.0	6	50
MSR406050675	6.0	15	0.5	6	75
MSR406100675	6.0	15	1.0	6	75
MSR408050860	8.0	20	0.5	8	60
MSR408100860	8.0	20	1.0	8	60
MSR4080508100	8.0	20	0.5	8	100
MSR4081008100	8.0	20	1.0	8	100
MSR410051075	10.0	25	0.5	10	75
MSR410101075	10.0	25	1.0	10	75
MSR410201075	10.0	25	2.0	10	75
MSR4100510100	10.0	25	0.5	10	100
MSR4101010100	10.0	25	1.0	10	100
MSR4102010100	10.0	25	2.0	10	100
MSR412101275	12.0	30	1.0	12	75
MSR412201275	12.0	30	2.0	12	75
MSR412301275	12.0	30	3.0	12	75
MSR4121012100	12.0	30	1.0	12	100
MSR4122012100	12.0	30	2.0	12	100
MSR4123012100	12.0	30	3.0	12	100
MSR4161016100	16.0	45	1.0	16	100
MSR4162016100	16.0	45	2.0	16	100
MSR4163016100	16.0	45	3.0	16	100

钛合金二刃球刀-MSB2系列

2F Ball Mill (Ti-Alloy) -MSB2 series



适合加工钛合金等难加工材料。				
Materials: Hard-to-machining Materials like Titanium Alloy				
Application: General Processing				
刀具材质: 硬质合金 (钨钢)				涂层 (coating)
Tool material: cemented carbide(tungsten steel)				PT
型号	刃径/球半径	刃长	柄径	总长
Size	CED/R	CEL	SHK	OVL
MSB20060450	0.6/0.3	1.2	4	50
MSB20080450	0.8/0.4	1.6	4	50
MSB2010450	1.0/0.5	2	4	50
MSB20150450	1.5/0.75	3	4	50
MSB2020450	2.0/1.0	4	4	50
MSB20250450	2.5/1.25	5	4	50
MSB2030450	3.0/1.5	6	4	50
MSB20350450	3.5/1.75	7	4	50
MSB2040450	4.0/2.0	8	4	50
MSB2040475	4.0/2.0	8	4	75
MSB20404100	4.0/2.0	8	4	100
MSB2050650	5.0/2.5	10	6	50
MSB2060650	6.0/3.0	12	6	50
MSB2060675	6.0/3.0	12	6	75
MSB20606100	6.0/3.0	12	6	100
MSB20606150	6.0/3.0	12	6	150
MSB2080860	8.0/4.0	16	8	60
MSB2080875	8.0/4.0	16	8	75
MSB20808100	8.0/4.0	16	8	100
MSB20808150	8.0/4.0	16	8	150
M SB2101075	10.0/5.0	20	10	75
MSB210101000	10.0/5.0	20	10	100
MSB21010150	10.0/5.0	20	10	150
MSB2121275	12.0/6.0	24	12	75
MSB21212100	12.0/6.0	24	12	100
MSB21212150	12.0/6.0	24	12	150
MSB21414100	14.0/7.0	28	14	100
MSB21414150	14.0/7.0	28	14	150
MSB21616100	16.0/8.0	32	16	100
MSB21616150	16.0/8.0	32	16	150
MSB21818100	18.0/9.0	36	18	100
MSB21818150	18.0/9.0	36	18	150
MSB22020100	20.0/10.0	40	20	100
MSB22020150	20.0/10.0	40	20	150

通用型外冷麻花钻-三倍径

G-External Coolant Drill-3D



型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D005	0.5	3D	6	38	3	外冷 (external)
MP3D006	0.6	3D	6	38	3	外冷 (external)
MP3D007	0.7	3D	6	38	3	外冷 (external)
MP3D008	0.8	3D	6	38	3	外冷 (external)
MP3D009	0.9	3D	6	38	3	外冷 (external)
MP3D010	1.0	3D	8	42	3	外冷 (external)
MP3D011	1.1	3D	10	42	3	外冷 (external)
MP3D012	1.2	3D	10	42	3	外冷 (external)
MP3D013	1.3	3D	10	42	3	外冷 (external)
MP3D014	1.4	3D	11	42	3	外冷 (external)
MP3D015	1.5	3D	11	42	3	外冷 (external)
MP3D016	1.6	3D	12	42	3	外冷 (external)
MP3D017	1.7	3D	12	42	3	外冷 (external)
MP3D018	1.8	3D	13	42	3	外冷 (external)
MP3D019	1.9	3D	13	42	3	外冷 (external)
MP3D020	2.0	3D	14	50	3	外冷 (external)
MP3D021	2.1	3D	14	50	3	外冷 (external)
MP3D022	2.2	3D	14	50	3	外冷 (external)
MP3D023	2.3	3D	14	50	3	外冷 (external)
MP3D024	2.4	3D	14	50	3	外冷 (external)
MP3D025	2.5	3D	14	50	3	外冷 (external)
MP3D026	2.6	3D	14	50	3	外冷 (external)
MP3D027	2.7	3D	14	50	3	外冷 (external)
MP3D028	2.8	3D	14	50	3	外冷 (external)
MP3D029	2.9	3D	14	50	3	外冷 (external)
MP3D030	3.0	3D	18	60	3	外冷 (external)
MP3D031	3.1	3D	20	60	4	外冷 (external)
MP3D032	3.2	3D	20	60	4	外冷 (external)
MP3D033	3.3	3D	20	60	4	外冷 (external)
MP3D034	3.4	3D	22	60	4	外冷 (external)
MP3D035	3.5	3D	22	60	4	外冷 (external)
MP3D036	3.6	3D	22	60	4	外冷 (external)
MP3D037	3.7	3D	22	60	4	外冷 (external)
MP3D038	3.8	3D	24	60	4	外冷 (external)

型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D039	3.9	3D	24	60	4	外冷 (external)
MP3D040	4.0	3D	24	60	4	外冷 (external)
MP3D041	4.1	3D	24	62	5	外冷 (external)
MP3D042	4.2	3D	26	62	5	外冷 (external)
MP3D043	4.3	3D	26	62	5	外冷 (external)
MP3D044	4.4	3D	26	62	5	外冷 (external)
MP3D045	4.5	3D	26	62	5	外冷 (external)
MP3D046	4.6	3D	26	62	5	外冷 (external)
MP3D047	4.7	3D	26	62	5	外冷 (external)
MP3D048	4.8	3D	26	62	5	外冷 (external)
MP3D049	4.9	3D	26	62	5	外冷 (external)
MP3D050	5.0	3D	26	62	5	外冷 (external)
MP3D051	5.1	3D	28	66	6	外冷 (external)
MP3D052	5.2	3D	28	66	6	外冷 (external)
MP3D053	5.3	3D	28	66	6	外冷 (external)
MP3D054	5.4	3D	28	66	6	外冷 (external)
MP3D055	5.5	3D	28	66	6	外冷 (external)
MP3D056	5.6	3D	30	66	6	外冷 (external)
MP3D057	5.7	3D	30	66	6	外冷 (external)
MP3D058	5.8	3D	30	66	6	外冷 (external)
MP3D059	5.9	3D	30	66	6	外冷 (external)
MP3D060	6.0	3D	30	66	6	外冷 (external)
MP3D061	6.1	3D	34	74	7	外冷 (external)
MP3D062	6.2	3D	34	74	7	外冷 (external)
MP3D063	6.3	3D	34	74	7	外冷 (external)
MP3D064	6.4	3D	34	74	7	外冷 (external)
MP3D065	6.5	3D	34	74	7	外冷 (external)
MP3D066	6.6	3D	34	74	7	外冷 (external)
MP3D067	6.7	3D	37	74	7	外冷 (external)
MP3D068	6.8	3D	37	74	7	外冷 (external)
MP3D069	6.9	3D	37	74	7	外冷 (external)
MP3D070	7.0	3D	37	74	7	外冷 (external)
MP3D071	7.1	3D	41	79	8	外冷 (external)
MP3D072	7.2	3D	41	79	8	外冷 (external)
MP3D073	7.3	3D	41	79	8	外冷 (external)
MP3D074	7.4	3D	41	79	8	外冷 (external)
MP3D075	7.5	3D	41	79	8	外冷 (external)
MP3D076	7.6	3D	41	79	8	外冷 (external)
MP3D077	7.7	3D	41	79	8	外冷 (external)
MP3D078	7.8	3D	41	79	8	外冷 (external)
MP3D079	7.9	3D	41	79	8	外冷 (external)
MP3D080	8.0	3D	41	79	8	外冷 (external)

型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D081	8.1	3D	43	84	9	外冷 (external)
MP3D082	8.2	3D	43	84	9	外冷 (external)
MP3D083	8.3	3D	43	84	9	外冷 (external)
MP3D084	8.4	3D	43	84	9	外冷 (external)
MP3D085	8.5	3D	43	84	9	外冷 (external)
MP3D086	8.6	3D	43	84	9	外冷 (external)
MP3D087	8.7	3D	43	84	9	外冷 (external)
MP3D088	8.8	3D	43	84	9	外冷 (external)
MP3D089	8.9	3D	43	84	9	外冷 (external)
MP3D090	9.0	3D	43	84	9	外冷 (external)
MP3D091	9.1	3D	47	89	10	外冷 (external)
MP3D092	9.2	3D	47	89	10	外冷 (external)
MP3D093	9.3	3D	47	89	10	外冷 (external)
MP3D094	9.4	3D	47	89	10	外冷 (external)
MP3D095	9.5	3D	47	89	10	外冷 (external)
MP3D096	9.6	3D	47	89	10	外冷 (external)
MP3D097	9.7	3D	47	89	10	外冷 (external)
MP3D098	9.8	3D	47	89	10	外冷 (external)
MP3D099	9.9	3D	47	89	10	外冷 (external)
MP3D100	10.0	3D	47	89	10	外冷 (external)
MP3D101	10.1	3D	51	102	11	外冷 (external)
MP3D102	10.2	3D	51	102	11	外冷 (external)
MP3D103	10.3	3D	51	102	11	外冷 (external)
MP3D104	10.4	3D	51	102	11	外冷 (external)
MP3D105	10.5	3D	51	102	11	外冷 (external)
MP3D106	10.6	3D	51	102	11	外冷 (external)
MP3D107	10.7	3D	51	102	11	外冷 (external)
MP3D108	10.8	3D	51	102	11	外冷 (external)
MP3D109	10.9	3D	51	102	11	外冷 (external)
MP3D110	11.0	3D	51	102	11	外冷 (external)
MP3D111	11.1	3D	55	102	12	外冷 (external)
MP3D112	11.2	3D	55	102	12	外冷 (external)
MP3D113	11.3	3D	55	102	12	外冷 (external)
MP3D114	11.4	3D	55	102	12	外冷 (external)
MP3D115	11.5	3D	55	102	12	外冷 (external)
MP3D116	11.6	3D	55	102	12	外冷 (external)
MP3D117	11.7	3D	55	102	12	外冷 (external)
MP3D118	11.8	3D	55	102	12	外冷 (external)
MP3D119	11.9	3D	55	102	12	外冷 (external)
MP3D120	12.0	3D	55	102	12	外冷 (external)
MP3D121	12.1	3D	57	102	13	外冷 (external)
MP3D122	12.2	3D	57	102	13	外冷 (external)

型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D123	12.3	3D	57	102	13	外冷 (external)
MP3D124	12.4	3D	57	102	13	外冷 (external)
MP3D125	12.5	3D	57	102	13	外冷 (external)
MP3D126	12.6	3D	57	102	13	外冷 (external)
MP3D127	12.7	3D	57	102	13	外冷 (external)
MP3D128	12.8	3D	57	102	13	外冷 (external)
MP3D129	12.9	3D	57	102	13	外冷 (external)
MP3D130	13.0	3D	57	102	13	外冷 (external)
MP3D131	13.1	3D	60	107	14	外冷 (external)
MP3D132	13.2	3D	60	107	14	外冷 (external)
MP3D133	13.3	3D	60	107	14	外冷 (external)
MP3D134	13.4	3D	60	107	14	外冷 (external)
MP3D135	13.5	3D	60	107	14	外冷 (external)
MP3D136	13.6	3D	60	107	14	外冷 (external)
MP3D137	13.7	3D	60	107	14	外冷 (external)
MP3D138	13.8	3D	60	107	14	外冷 (external)
MP3D139	13.9	3D	60	107	14	外冷 (external)
MP3D140	14.0	3D	60	107	14	外冷 (external)
MP3D141	14.1	3D	62	111	15	外冷 (external)
MP3D142	14.2	3D	62	111	15	外冷 (external)
MP3D143	14.3	3D	62	111	15	外冷 (external)
MP3D144	14.4	3D	62	111	15	外冷 (external)
MP3D145	14.5	3D	62	111	15	外冷 (external)
MP3D146	14.6	3D	62	111	15	外冷 (external)
MP3D147	14.7	3D	62	111	15	外冷 (external)
MP3D148	14.8	3D	62	111	15	外冷 (external)
MP3D149	14.9	3D	62	111	15	外冷 (external)
MP3D150	15.0	3D	62	111	15	外冷 (external)
MP3D151	15.1	3D	65	115	16	外冷 (external)
MP3D152	15.2	3D	65	115	16	外冷 (external)
MP3D153	15.3	3D	65	115	16	外冷 (external)
MP3D154	15.4	3D	65	115	16	外冷 (external)
MP3D155	15.5	3D	65	115	16	外冷 (external)
MP3D156	15.6	3D	65	115	16	外冷 (external)
MP3D157	15.7	3D	65	115	16	外冷 (external)
MP3D158	15.8	3D	65	115	16	外冷 (external)
MP3D159	15.9	3D	65	115	16	外冷 (external)
MP3D160	16.0	3D	65	115	16	外冷 (external)
MP3D161	16.1	3D	66	119	17	外冷 (external)
MP3D162	16.2	3D	119	119	17	外冷 (external)
MP3D163	16.3	3D	119	119	17	外冷 (external)
MP3D164	16.4	3D	119	119	17	外冷 (external)

型号 (MODEL)	刃径 D	倍径 (l/d)	119	119	柄径 D2	冷却方式 (Type of cooling)
M P3D165	16.5	3D	119	119	17	外冷 (external)
M P3D166	16.6	3D	119	119	17	外冷 (external)
M P3D167	16.7	3D	119	119	17	外冷 (external)
M P3D168	16.8	3D	119	119	17	外冷 (external)
M P3D169	16.9	3D	119	119	17	外冷 (external)
M P3D170	17.0	3D	119	119	17	外冷 (external)
M P3D171	17.1	3D	73	123	18	外冷 (external)
M P3D172	17.2	3D	73	123	18	外冷 (external)
M P3D173	17.3	3D	73	123	18	外冷 (external)
M P3D174	17.4	3D	73	123	18	外冷 (external)
M P3D175	17.5	3D	73	123	18	外冷 (external)
M P3D176	17.6	3D	73	123	18	外冷 (external)
M P3D177	17.7	3D	73	123	18	外冷 (external)
M P3D178	17.8	3D	73	123	18	外冷 (external)
M P3D179	17.9	3D	73	123	18	外冷 (external)
M P3D180	18.0	3D	73	123	18	外冷 (external)
M P3D181	18.1	3D	79	131	20	外冷 (external)
M P3D182	18.2	3D	79	131	20	外冷 (external)
M P3D183	18.3	3D	79	131	20	外冷 (external)
M P3D184	18.4	3D	79	131	20	外冷 (external)
M P3D185	18.5	3D	79	131	20	外冷 (external)
M P3D186	18.6	3D	79	131	20	外冷 (external)
M P3D187	18.7	3D	79	131	20	外冷 (external)
M P3D188	18.8	3D	79	131	20	外冷 (external)
M P3D189	18.9	3D	79	131	20	外冷 (external)
M P3D190	19.0	3D	79	131	20	外冷 (external)
M P3D191	19.1	3D	79	131	20	外冷 (external)
M P3D192	19.2	3D	79	131	20	外冷 (external)
M P3D193	19.3	3D	79	131	20	外冷 (external)
M P3D194	19.4	3D	79	131	20	外冷 (external)
M P3D195	19.5	3D	79	131	20	外冷 (external)
M P3D196	19.6	3D	79	131	20	外冷 (external)
M P3D197	19.7	3D	79	131	20	外冷 (external)
M P3D198	19.8	3D	79	131	20	外冷 (external)
M P3D199	19.9	3D	79	131	20	外冷 (external)
M P3D200	20.0	3D	79	131	20	外冷 (external)

通用型内冷麻花钻-三倍径

G-Internal Coolant Drill-3D



型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D040C	4.0	3D	24	65	4	内冷 (internal)
MP3D041C	4.1	3D	24	65	5	内冷 (internal)
MP3D042C	4.2	3D	24	65	5	内冷 (internal)
MP3D043C	4.3	3D	24	65	5	内冷 (internal)
MP3D044C	4.4	3D	24	65	5	内冷 (internal)
MP3D045C	4.5	3D	24	65	5	内冷 (internal)
MP3D046C	4.6	3D	24	65	5	内冷 (internal)
MP3D047C	4.7	3D	24	65	5	内冷 (internal)
MP3D048C	4.8	3D	28	65	5	内冷 (internal)
MP3D049C	4.9	3D	28	65	5	内冷 (internal)
MP3D050C	5.0	3D	28	65	5	内冷 (internal)
MP3D051C	5.1	3D	28	66	6	内冷 (internal)
MP3D052C	5.2	3D	28	66	6	内冷 (internal)
MP3D053C	5.3	3D	28	66	6	内冷 (internal)
MP3D054C	5.4	3D	28	66	6	内冷 (internal)
MP3D055C	5.5	3D	28	66	6	内冷 (internal)
MP3D056C	5.6	3D	28	66	6	内冷 (internal)
MP3D057C	5.7	3D	28	66	6	内冷 (internal)
MP3D058C	5.8	3D	28	66	6	内冷 (internal)
MP3D059C	5.9	3D	28	66	6	内冷 (internal)
MP3D060C	6.0	3D	28	66	6	内冷 (internal)
MP3D061C	6.1	3D	34	79	8	内冷 (internal)
MP3D062C	6.2	3D	34	79	8	内冷 (internal)
MP3D063C	6.3	3D	34	79	8	内冷 (internal)
MP3D064C	6.4	3D	34	79	8	内冷 (internal)
MP3D065C	6.5	3D	34	79	8	内冷 (internal)
MP3D066C	6.6	3D	34	79	8	内冷 (internal)
MP3D067C	6.7	3D	34	79	8	内冷 (internal)
MP3D068C	6.8	3D	34	79	8	内冷 (internal)
MP3D069C	6.9	3D	34	79	8	内冷 (internal)
MP3D070C	7.0	3D	34	79	8	内冷 (internal)
MP3D071C	7.1	3D	41	79	8	内冷 (internal)
MP3D072C	7.2	3D	41	79	8	内冷 (internal)
MP3D073C	7.3	3D	41	79	8	内冷 (internal)

型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D074C	7.4	3D	41	79	8	内冷 (internal)
MP3D075C	7.5	3D	41	79	8	内冷 (internal)
MP3D076C	7.6	3D	41	79	8	内冷 (internal)
MP3D077C	7.7	3D	41	79	8	内冷 (internal)
MP3D078C	7.8	3D	41	79	8	内冷 (internal)
MP3D079C	7.9	3D	41	79	8	内冷 (internal)
MP3D080C	8.0	3D	41	79	8	内冷 (internal)
MP3D081C	8.1	3D	47	89	10	内冷 (internal)
MP3D082C	8.2	3D	47	89	10	内冷 (internal)
MP3D083C	8.3	3D	47	89	10	内冷 (internal)
MP3D084C	8.4	3D	47	89	10	内冷 (internal)
MP3D085C	8.5	3D	47	89	10	内冷 (internal)
MP3D086C	8.6	3D	47	89	10	内冷 (internal)
MP3D087C	8.7	3D	47	89	10	内冷 (internal)
MP3D088C	8.8	3D	47	89	10	内冷 (internal)
MP3D089C	8.9	3D	47	89	10	内冷 (internal)
MP3D090C	9.0	3D	47	89	10	内冷 (internal)
MP3D091C	9.1	3D	47	89	10	内冷 (internal)
MP3D092C	9.2	3D	47	89	10	内冷 (internal)
MP3D093C	9.3	3D	47	89	10	内冷 (internal)
MP3D094C	9.4	3D	47	89	10	内冷 (internal)
MP3D095C	9.5	3D	47	89	10	内冷 (internal)
MP3D096C	9.6	3D	47	89	10	内冷 (internal)
MP3D097C	9.7	3D	47	89	10	内冷 (internal)
MP3D098C	9.8	3D	47	89	10	内冷 (internal)
MP3D099C	9.9	3D	47	89	10	内冷 (internal)
MP3D100C	10.0	3D	47	89	10	内冷 (internal)
MP3D101C	10.1	3D	55	102	12	内冷 (internal)
MP3D102C	10.2	3D	55	102	12	内冷 (internal)
MP3D103C	10.3	3D	55	102	12	内冷 (internal)
MP3D104C	10.4	3D	55	102	12	内冷 (internal)
MP3D105C	10.5	3D	55	102	12	内冷 (internal)
MP3D106C	10.6	3D	55	102	12	内冷 (internal)
MP3D107C	10.7	3D	55	102	12	内冷 (internal)
MP3D108C	10.8	3D	55	102	12	内冷 (internal)
MP3D109C	10.9	3D	55	102	12	内冷 (internal)
MP3D110C	11.0	3D	55	102	12	内冷 (internal)
MP3D111C	11.1	3D	55	102	12	内冷 (internal)
MP3D112C	11.2	3D	55	102	12	内冷 (internal)
MP3D113C	11.3	3D	55	102	12	内冷 (internal)
MP3D114C	11.4	3D	55	102	12	内冷 (internal)
MP3D115C	11.5	3D	55	102	12	内冷 (internal)

型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D116C	11.6	3D	55	102	12	内冷 (internal)
MP3D117C	11.7	3D	55	102	12	内冷 (internal)
MP3D118C	11.8	3D	55	102	12	内冷 (internal)
MP3D119C	11.9	3D	55	102	12	内冷 (internal)
MP3D120C	12.0	3D	55	102	12	内冷 (internal)
MP3D121C	12.1	3D	60	107	14	内冷 (internal)
MP3D122C	12.2	3D	60	107	14	内冷 (internal)
MP3D123C	12.3	3D	60	107	14	内冷 (internal)
MP3D124C	12.4	3D	60	107	14	内冷 (internal)
MP3D125C	12.5	3D	60	107	14	内冷 (internal)
MP3D126C	12.6	3D	60	107	14	内冷 (internal)
MP3D127C	12.7	3D	60	107	14	内冷 (internal)
MP3D128C	12.8	3D	60	107	14	内冷 (internal)
MP3D129C	12.9	3D	60	107	14	内冷 (internal)
MP3D130C	13.0	3D	60	107	14	内冷 (internal)
MP3D131C	13.1	3D	60	107	14	内冷 (internal)
MP3D132C	13.2	3D	60	107	14	内冷 (internal)
MP3D133C	13.3	3D	60	107	14	内冷 (internal)
MP3D134C	13.4	3D	60	107	14	内冷 (internal)
MP3D135C	13.5	3D	60	107	14	内冷 (internal)
MP3D136C	13.6	3D	60	107	14	内冷 (internal)
MP3D137C	13.7	3D	60	107	14	内冷 (internal)
MP3D138C	13.8	3D	60	107	14	内冷 (internal)
MP3D139C	13.9	3D	60	107	14	内冷 (internal)
MP3D140C	14.0	3D	60	107	14	内冷 (internal)
MP3D141C	14.1	3D	65	115	16	内冷 (internal)
MP3D142C	14.2	3D	65	115	16	内冷 (internal)
MP3D143C	14.3	3D	65	115	16	内冷 (internal)
MP3D144C	14.4	3D	65	115	16	内冷 (internal)
MP3D145C	14.5	3D	65	115	16	内冷 (internal)
MP3D146C	14.6	3D	65	115	16	内冷 (internal)
MP3D147C	14.7	3D	65	115	16	内冷 (internal)
MP3D148C	14.8	3D	65	115	16	内冷 (internal)
MP3D149C	14.9	3D	65	115	16	内冷 (internal)
MP3D150C	15.0	3D	65	115	16	内冷 (internal)
MP3D151C	15.1	3D	65	115	16	内冷 (internal)
MP3D152C	15.2	3D	65	115	16	内冷 (internal)
MP3D153C	15.3	3D	65	115	16	内冷 (internal)
MP3D154C	15.4	3D	65	115	16	内冷 (internal)
MP3D155C	15.5	3D	65	115	16	内冷 (internal)
MP3D156C	15.6	3D	65	115	16	内冷 (internal)
MP3D157C	15.7	3D	65	115	16	内冷 (internal)

型号 (MODEL)	刃径 D	倍径 (l/d)	槽长 L1	总长 L2	柄径 D2	冷却方式 (Type of cooling)
MP3D158C	15.8	3D	65	115	16	内冷 (internal)
MP3D159C	15.9	3D	65	115	16	内冷 (internal)
MP3D160C	16.0	3D	65	115	16	内冷 (internal)
MP3D161C	16.1	3D	73	123	18	内冷 (internal)
MP3D162C	16.2	3D	73	123	18	内冷 (internal)
MP3D163C	16.3	3D	73	123	18	内冷 (internal)
MP3D164C	16.4	3D	73	123	18	内冷 (internal)
MP3D165C	16.5	3D	73	123	18	内冷 (internal)
MP3D166C	16.6	3D	73	123	18	内冷 (internal)
MP3D167C	16.7	3D	73	123	18	内冷 (internal)
MP3D168C	16.8	3D	73	123	18	内冷 (internal)
MP3D169C	16.9	3D	73	123	18	内冷 (internal)
MP3D170C	17.0	3D	73	123	18	内冷 (internal)
MP3D171C	17.1	3D	73	123	18	内冷 (internal)
MP3D172C	17.2	3D	73	123	18	内冷 (internal)
MP3D173C	17.3	3D	73	123	18	内冷 (internal)
MP3D174C	17.4	3D	73	123	18	内冷 (internal)
MP3D175C	17.5	3D	73	123	18	内冷 (internal)
MP3D176C	17.6	3D	73	123	18	内冷 (internal)
MP3D177C	17.7	3D	73	123	18	内冷 (internal)
MP3D178C	17.8	3D	73	123	18	内冷 (internal)
MP3D179C	17.9	3D	73	123	18	内冷 (internal)
MP3D180C	18.0	3D	73	123	18	内冷 (internal)
MP3D181C	18.1	3D	79	131	20	内冷 (internal)
MP3D182C	18.2	3D	79	131	20	内冷 (internal)
MP3D183C	18.3	3D	79	131	20	内冷 (internal)
MP3D184C	18.4	3D	79	131	20	内冷 (internal)
MP3D185C	18.5	3D	79	131	20	内冷 (internal)
MP3D186C	18.6	3D	79	131	20	内冷 (internal)
MP3D187C	18.7	3D	79	131	20	内冷 (internal)
MP3D188C	18.8	3D	79	131	20	内冷 (internal)
MP3D189C	18.9	3D	79	131	20	内冷 (internal)
MP3D190C	19.0	3D	79	131	20	内冷 (internal)
MP3D191C	19.1	3D	79	131	20	内冷 (internal)
MP3D192C	19.2	3D	79	131	20	内冷 (internal)
MP3D193C	19.3	3D	79	131	20	内冷 (internal)
MP3D194C	19.4	3D	79	131	20	内冷 (internal)
MP3D195C	19.5	3D	79	131	20	内冷 (internal)
MP3D196C	19.6	3D	79	131	20	内冷 (internal)
MP3D198C	19.8	3D	79	131	20	内冷 (internal)
MP3D199C	19.9	3D	79	131	20	内冷 (internal)
MP3D200C	20.0	3D	79	131	20	内冷 (internal)