

铣削 GENERAL MILLING

铣刀命名规则 Code key for milling cutters

铣刀选择指南 Mill selection guide

面铣刀具 Face Mill

FM45-SN

FM45-HN

FM45-ON

FM45-SE

快进给铣刀具 High feed mill

HF15-LN

HF15-SD

方肩铣刀具 Square shoulder mill

SM90-AO

SM90-AN

SM90-ZN

仿形铣刀具 Profile mill

PM00-RP

三面刃刀具 Full side and face mill

SF90-MN

可调式精铣面铣刀 Adjustable finish mill

FF45-AN&LN

牌号介绍 Grades introduction

技术指南 Technical guide

铣刀命名规则

Code key for milling cutters

FM45	-125	B	40	S
1	2	3	4	5
Face milling 45°	刀具直径	接口型式	接口尺寸	刀片形状

1 铣刀类型和主偏角

Mill type and cutting edge angle

FMxx Face milling (xx:45°/60°/75°/88°)

HFxx High feed milling (xx:10°/12°/13°/15°/20°)

SM90 Shoulder milling 90°

SF90 Slot & Face milling 90°

PM00 Profile milling

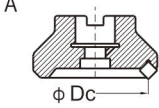
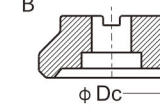
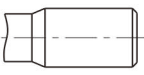
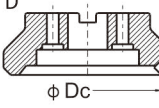
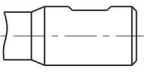
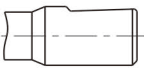
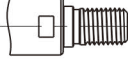

PG10 Plunge milling 10°

CMxx Chamfer milling (xx:30°/45°/60°/75°)

LE90 Long edge milling 90 玉米铣刀

FF90 Fine face mill 90°

















3 接口形式 Mouting type

 A ϕDc Arbora A ($40 \leq Dc < 100$)	 B ϕDc Arbora B ($80 < Dc < 160$)	 R Round
 D ϕDc Arbora C ($160 \leq Dc < 500$)	 E Weldon-E	 W Weldon
 M Metric Thread	 H Hub

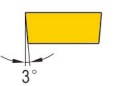
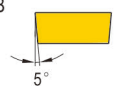
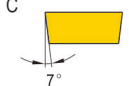
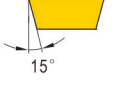
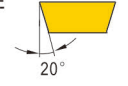
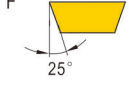
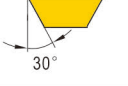

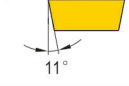
2 铣刀盘的直径 Mill diameter

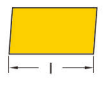
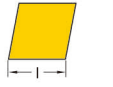
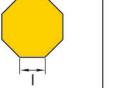

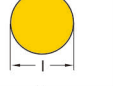

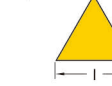

4 接口尺寸 Mouting size

5 刀片形状 Insert shape

 A 85°	 B 82°	 C 80°	 D 55°
 E 75°	 H	 K 55°	 L
 M 86°	 O	 P	 R
 S	 T	 V 35°	 W 80°

N	12	8	9	0	11
6	7	螺钉空白 C: 刀卡式 W: 楔块式	标准空白 特质标明长度	10	R空白 左手标注L
刀片后角	切削刃长度			刀具齿数	

6刀片后角 Insert relief angle		
A 	B 	C 
D 	E 	F 
G 	N 	P 
	0=特殊	

7切削刃长度 Insert length		
A,B,K 	C,D,E,M,V 	H,O,P 
L 	R 	S 
T 	W 	

8可选编号Optional number

空白(blank)螺钉压紧型式 Screw clamping
C (Cartridge)带刀夹的设计 Cartridge design
W(Wedge)楔块式设计 Wedge design

9可选编号Optional number

空白(blank)标准长度 Standard length
L(length) 特殊长度 Special length





10 齿数 Tooth number







槽铣刀则为切槽的宽度 Slot width only for slotting mill

11可选编号Optional number

空白(blank)标准长度
L(left)左手设计

铣刀选择指南 Milling cutter selection guides

系列Serie	FM45-SN	FM45-HN	FM45-ON	FM45-SE	HF15-LN	HF15-SD
页数 Pages						
主偏角 Cutting edge angle	45°	45°	45°	45°	15°	15°
最大切深 Max.depth of cut(mm)	6.5	5	3.8	6	0.7-1.0	1.3 1.7 3.2
直径范围 Diameter range(mm)	50-250	50-250	50-250	50-250	16-63	22-125
刀片刃口数 Insert edges	8	12	16	4	4	4
刀片类型 Insert	SN12	HN09	ON06 ON08	SE12	LN06	SD09 SD13 SD15
面铣 Face milling 	●	●	●	●	●	●
快进给铣削 High feed milling 					●	●
方肩铣 Shoulder milling 						
槽铣 Slotting 						
坡走铣 Straight ramping 					●	●
螺旋插补铣 Helical ramping 					●	●
倒角铣 Chamfer milling 	●	●	●	●		
插铣 Plunging 						
仿形铣 Profiling 					●	●
螺旋镗孔铣 Counter boring 						
镜面铣 Mirror milling 	●					
长悬伸铣削 Long overhang 					●	●
背铣 Back face milling 						

SM90-AO	SM90-AN	SM90-ZN	PM00-RP	SF90-MN	FF90-AN&LN
					
90°	90°	90°	/	/	90°
10.1 15.7	8 11	7	4 5 6	7.9-26.5 (槽宽)	0.5
16-125	20-160	40-160	20-160	80-315	100-250
2	4	6	/	2	/
AO11 AO17	AN08 AN11	ZN08	RP08 RP10 RP12	05 08 11 14	AN11&LN15
●	●	●	●	●	●
●	●	●			
●	●	●		●	
●	●		●		
●	●		●		
○	○				
○					
			●		
				●	
					●
				●	

面铣刀FM45-SN Face mill FM45-SN

45°通用面铣刀

生产率、经济性及安全性

刀片8个切削刃,最大切深6.5mm

适合钢件、铸铁粗到精加工

修光刃刀片无需预调

D100直径以下刀盘带内冷 (含D100)

可定制左手刀盘

刀片槽型

FM槽型: 精磨刀片, 低至中等进给, 精加工首选

MM槽型: 通用槽型,用于半精加工

ANTR-XH右手刀片粗加工槽型: 高进给, 恶劣工况首选

ANTN-W槽型: 修光刃槽型, 可搭配所有SNMX12刀片槽型使用

General purpose 45° face mill

Productivity ,economy and safety

8 edges insert, A_pmax. 6.5mm

Suitable for steel,cast iron parts, rough to finish machining

Wiper insert without pre-adjusting

Mill with internal coolant under D100(including D100)

Left-hand mill can be made

FM geometry: fine grinding insert, low to medium feed rates, first choice for finish machining

MM geometry: general purpose face milling, for semi-finish machining

ANTR-XH geometry: high feed rates,first choice for difficult machining condition

ANTN-W geometry: wiper insert, can be used with all SNMX12 inserts



ANTR-XH槽型
ANTR-XH Geometry



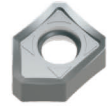
FM槽型
FM Geometry



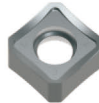
直径范围: 50-250mm
Diameter range:50-250mm



MM槽型
MM Geometry



ANTN-W槽型
ANTN-W Geometry



ANTN槽型
ANTN Geometry



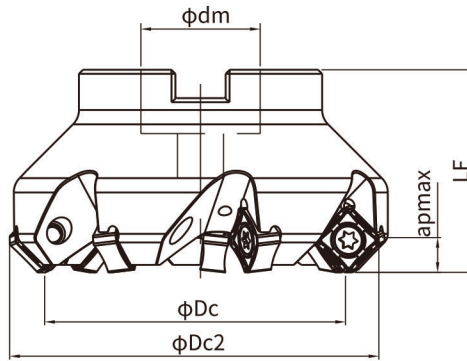
面铣
Face milling

刀片进给切削参数推荐

Feed recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
12	FM	0.15	0.10	0.25
12	MM (r=0.8)	0.18	0.10	0.25
12	MM (r=1.8)	0.25	0.10	0.40
12	ANTR-XH	0.30	0.20	0.50

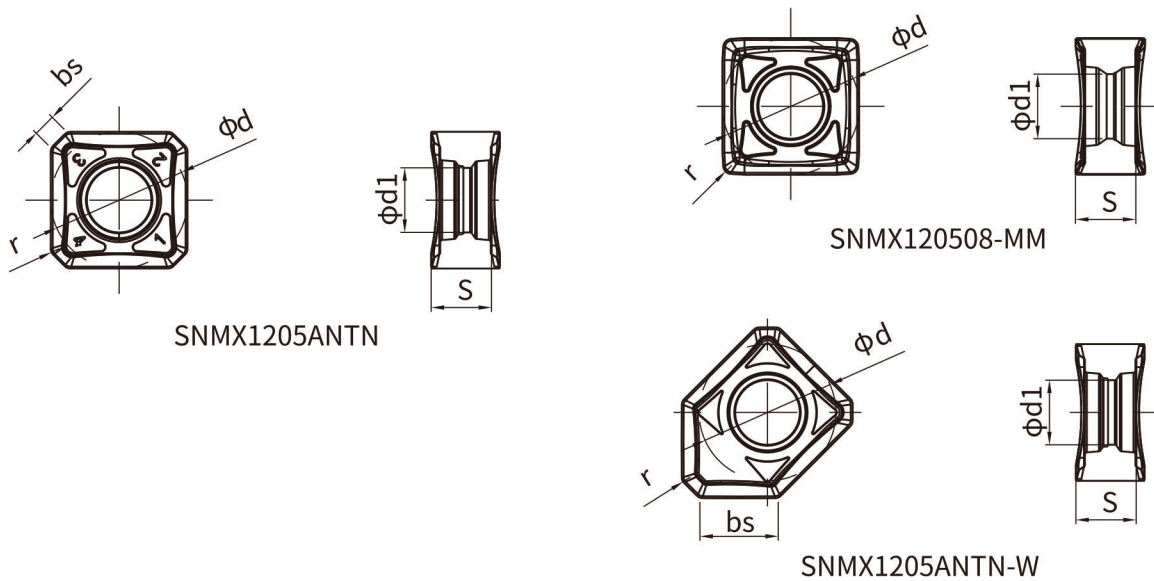
面铣刀FM45-S
NFace mill FM45-SN



直径 Dc	型 号	库存 状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF				
40	FM45-040A16SN12-Z04	●	53	16	6.5	40	A	4	+	0.40
50	FM45-050A22SN12-Z04	○	63	22	6.5	40	A	4	+	0.40
50	FM45-050A22SN12-Z05	●	63	22	6.5	40	A	5	+	0.40
50	FM45-050A22SN12-Z06	○	63	22	6.5	40	A	6	+	0.40
63	FM45-063A22SN12-Z05	●	76	22	6.5	40	A	5	+	0.60
63	FM45-063A22SN12-Z06	●	76	22	6.5	40	A	6	+	0.60
63	FM45-063A22SN12-Z08	○	76	22	6.5	40	A	8	+	0.60
80	FM45-080A27SN12-Z05	○	93	27	6.5	50	A	5	+	1.40
80	FM45-080A27SN12-Z06	●	93	27	6.5	50	A	6	+	1.40
80	FM45-080A27SN12-Z07	●	93	27	6.5	50	A	7	+	1.40
100	FM45-100A32SN12-Z07	●	113	32	6.5	50	A	7	+	1.90
100	FM45-100A32SN12-Z08	●	113	32	6.5	50	A	8	+	1.90
100	FM45-100A32SN12-Z10	○	113	32	6.5	50	A	10	+	1.90
125	FM45-125B40SN12-Z08	○	138	40	6.5	63	B	8		3.20
125	FM45-125B40SN12-Z10	●	138	40	6.5	63	B	10		3.20
125	FM45-125B40SN12-Z14	○	138	40	6.5	63	B	14		3.20
160	FM45-160C40SN12-Z10	○	173	40	6.5	63	C	10		5.90
160	FM45-160C40SN12-Z12	●	173	40	6.5	63	C	12		5.90
160	FM45-160C40SN12-Z16	○	173	40	6.5	63	C	12		5.90
200	FM45-200C60SN12-Z12	○	213	60	6.5	63	C	14		9.10
200	FM45-200C60SN12-Z14	○	213	60	6.5	63	C	14		9.10
200	FM45-200C60SN12-Z16	○	213	60	6.5	63	C	18		9.10
250	FM45-250C60SN12-Z16	○	263	60	6.5	63	C	16		9.10
250	FM45-250C60SN12-Z20	○	263	60	6.5	63	C	20		9.10

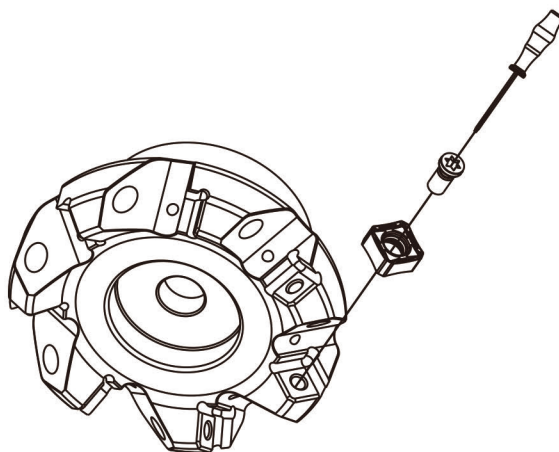
● 常备库存 ○ 按订单生产

面铣刀FM45-SN刀片 Face mill FM45-SN insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade													
		d	s	d1	r	bs	PM9115	PM9035	PM3020B	PM9115	PM9035	PM3020B	PM9115	PM9035	PM3020B	PM9115	PM4020	PM5010	PM9115	
	SNMX1205ANEN-FM(*)	12.7	5.56	6	0.8	1.5	★	☆	☆	★	☆	☆	☆	☆	★	☆	★			☆
	SNMX1205ANTN	12.7	5.56	6	0.8			★	★		☆			☆	★					
	SNMX120508-MM	12.7	5.56	6	0.8			★					★							
	SNMX120512-MM	12.7	5.56	6	1.2			★		★			☆	★						
	SNMX1205ANTR-XH(*)	12.7	5.56	6	0.8				★					★						
	SNMX1205ANTN-W(*)	12.7	5.56	6	0.8	6.7		★	☆				☆	★						

*SNMX1205ANEN-FM为磨制刀片，用于精面铣
 *SNMX1205ANTR仅可用于右手刀盘
 *SNMX1205ANTN-W为修光刃刀片
 首选 ★ 备选 ☆



配件/SPARE PARTS

刀具直径 Diameter	刀片夹紧螺钉 Clamping Screw	刀片螺钉扳手 Screw Wrench
50-250	S01-050120	D01-120

面铣刀FM45-HN

Face mill FM45-HN

45°经济型面铣刀

高每齿进给与密齿结合以取得最大的金属去除率。
 刀片12个切削刃,最大切深5mm
 适合钢件、铸铁粗到半精加工
 广泛应用于通用机械、工程机械和汽车零部件等加工领域。
 D100直径以下刀盘带内冷(含D100)

Economical 45° face mill

High feed rate and close pitch to get maximum metal removal rate.
 12 edges insert, A_{max}. 5mm
 Suitable for steel, cast iron parts, rough to semi-finish machining
 Mill with internal coolant under D100(including D100)

刀片槽型

F槽型: 低至中等进给, 软材料, 良好工况首选
 M槽型: 通用槽型, 中等进给
 R槽型: 高进给, 恶劣工况首选

F geometry: low to medium feed rates, first choice for soft materials and good machining condition

M geometry: general purpose face milling, medium feed rates

R geometry: high feed rates, first choice for difficult machining condition



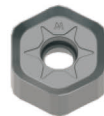
直径范围: 50-250mm
 Diameter range: 50-250mm



F槽型
 F Geometry



R槽型
 R Geometry



M槽型
 M Geometry



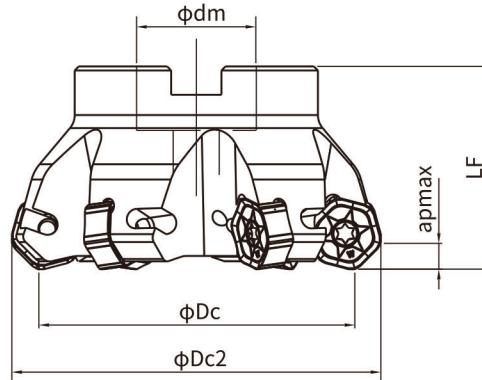
面铣
 Face milling

刀片进给切削参数推荐

Feed recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
09	F	0.15	0.10	0.25
09	M	0.20	0.10	0.30
09	R	0.25	0.12	0.40

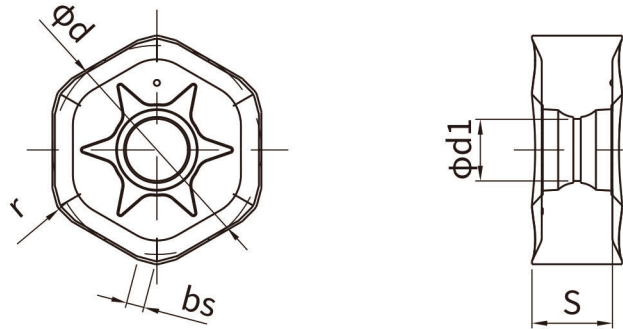
面铣刀FM45-HN
Face mill FM45-HN




直径 Dc	型 号	库存 状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF				
50	FM45-050A22HN09-Z04	●	62.4	22	5	40	A	04	+	0.35
63	FM45-063A22HN09-Z05	●	75.4	22	5	40	A	05	+	0.49
80	FM45-080A27HN09-Z06	●	92.4	27	5	50	A	06	+	1.06
100	FM45-100A32HN09-Z07	○	112.4	32	5	50	A	07	+	1.74
100	FM45-100A32HN09-Z08	●	112.4	32	5	50	A	08	+	1.74
125	FM45-125B40HN09-Z08	○	137.4	40	5	63	B	08		3.24
125	FM45-125B40HN09-Z10	●	137.4	40	5	63	B	10		3.24
160	FM45-160C40HN09-Z09	○	172.4	40	5	63	C	09		5.70
160	FM45-160C40HN09-Z12	●	172.4	40	5	63	C	12		5.70
200	FM45-200C60HN09-Z12	○	212.4	60	5	63	C	12		9.00
250	FM45-250C60HN09-Z14	○	262.4	60	5	63	C	14		12.80
80	FM45-080A27HN09W-Z09	○	92.4	27	5	50	A	Z0	+	1.06
100	FM45-100A32HN09W-Z12	○	112.4	32	5	50	A	Z1	+	1.74
125	FM45-125B40HN09W-Z16	○	137.4	40	5	63	B	Z1		3.24
160	FM45-160C40HN09W-Z20	○	172.4	40	5	63	C	Z2		5.70
160	FM45-160C40HN09W-Z20-L	○	172.4	40	5	63	C	Z2		5.70
200	FM45-200C60HN09W-Z26	○	212.4	60	5	63	C	Z2		9.00
200	FM45-200C60HN09W-Z26-L	○	212.4	60	5	63	C	Z2		12.80

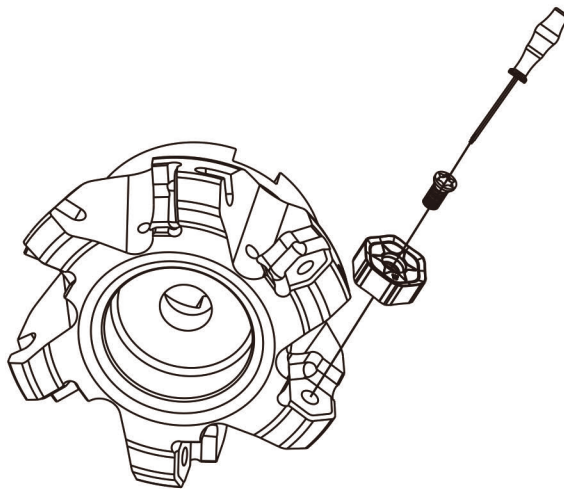
● 常备库存 ○ 按订单生产

面铣刀FM45-HN刀片
Face mill FM45-HN insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade														
		d	s	d1	r	bs	PM9115	PM4020	PM9035	PM9115	PM4020	PM9035	PM9115	PM4020	PM9035	PM5010	PM9115				
	HNGX0906-F	16.5	6.35	4.9			★	★	☆	★	☆		☆	★	★	★	★	☆	★	☆	
	HNGX0906-M	16.5	6.35	4.9			★	★	☆	★	☆		☆	★	★	★	★	☆	★	☆	
	HNMX0906-M	16.5	6.35	4.9					★	☆			☆	★							
	HNMX0906-R	16.5	6.35	4.9			☆	★	★	★	☆			★	☆	★				★	☆

首选 ★ 备选 ☆



配件/SPARE PARTS

安装形式	刀具直径 Diameter	刀片夹紧螺钉 Clamping Screw	刀片螺钉扳手 Screw Wrench
A	50-250	S01-045120	D01-115

面铣刀FM45-ON Face mill FM45-ON

45°经济型面铣刀

刀片16个切削刃,最大切深3.5mm
适合钢件、铸铁中等切削量加工
D100直径以下刀盘带内冷 (含D100)

Economical 45° face mill

16 edges insert, A_pmax. 3.5mm
Suitable for steel, cast iron parts, medium machining
Mill with internal coolant under D100(including D100)

刀片槽型

F槽型 ■ 低至中等进给 ■ 软材料 ■ 良好工况首选

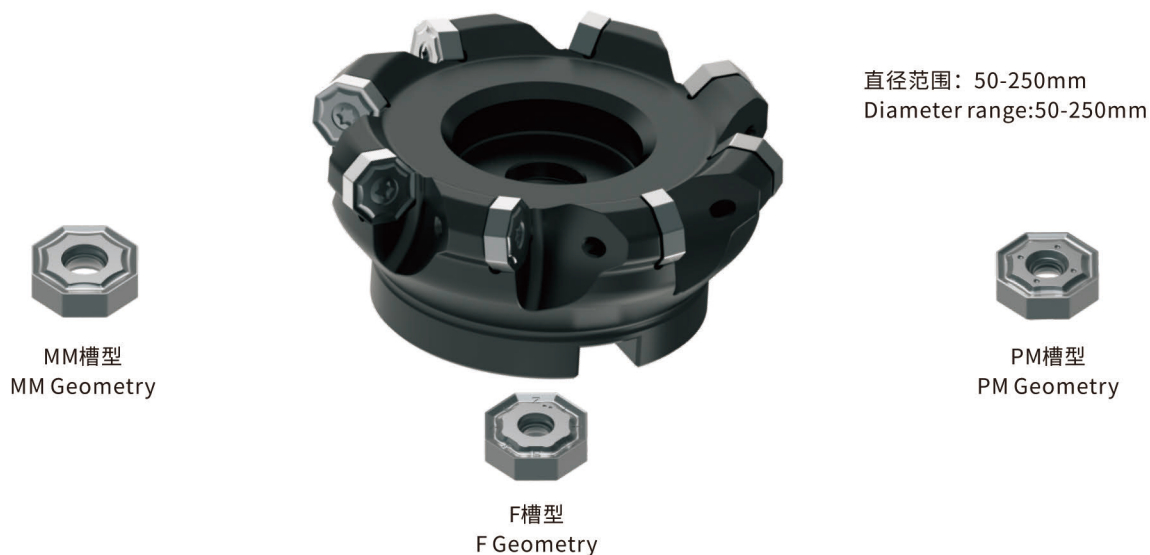
MM槽型: 通用槽型, 中等进给

PM槽型: 高进给, 恶劣工况首选

F geometry: low to medium feed rates, first choice for soft materials and good machining condition

MM geometry: general purpose face milling, medium feed rates

PM geometry: high feed rates, first choice for difficult machining condition

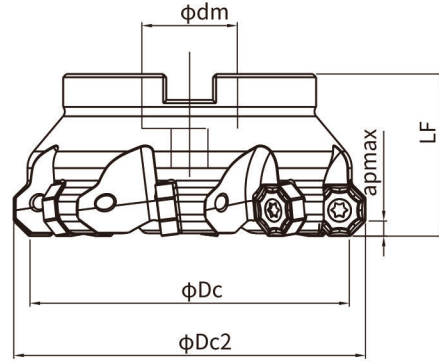


面铣
Face milling

刀片进给切削参数推荐 Feed recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
08	F	0.15	0.10	0.25
06	MM	0.20	0.10	0.30
08	PM	0.25	0.12	0.40

面铣刀FM45-ON
Face mill FM45-ON



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF				
50	FM45-050A22ON06-Z04	●	59.5	22	3.8	40	A	04	+	
50	FM45-050A22ON06-Z06	○	59.5	22	3.8	40	A	06	+	
63	FM45-063A22ON06-Z05	●	72.5	22	3.8	40	A	05	+	
63	FM45-063A22ON06-Z06	○	72.5	22	3.8	40	A	06	+	
63	FM45-063A22ON06-Z08	○	72.5	22	3.8	40	A	08	+	
80	FM45-080A22ON06-Z06	●	89.5	22	3.8	50	A	06	+	
80	FM45-080A27ON06-Z08	○	89.5	27	3.8	50	A	08	+	
80	FM45-080A27ON06-Z09	○	89.5	27	3.8	50	A	09	+	
100	FM45-100A27ON06-Z07	●	109.5	27	3.8	50	A	07	+	
100	FM45-100A32ON06-Z09	○	109.5	32	3.8	50	A	09	+	
100	FM45-100A32ON06-Z11	○	109.5	32	3.8	50	A	11	+	
125	FM45-125B32ON06-Z07	○	134.5	32	3.8	63	B	07		
125	FM45-125B40ON06-Z09	●	134.5	40	3.8	63	B	09		
125	FM45-125B40ON06-Z14	○	134.5	40	3.8	63	B	14		
160	FM45-160C40ON06-Z10	●	169.5	40	3.8	63	C	10		

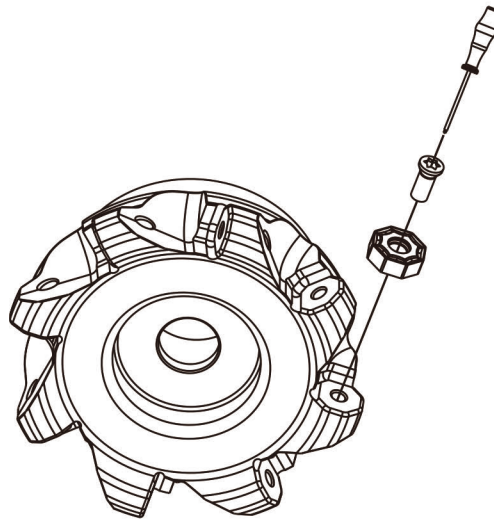
● 常备库存 ○ 按订单生产

面铣刀FM45-ON刀片
Face mill FM45-ON insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade									
		d	s	d1	r	bs	PM9115	PM9035	PM9115	PM9035	PM9115	PM9035	PM5010	PM9115		
	ONMU060508-MM	16	5.5	5.4	0.8		★	☆	★		☆	★	★		★	☆
	ONMU08TX08-PM	20.2	5.83	5.3	0.8		★	☆	★		☆	★	★		★	☆
	ONGX080608-F	20.2	5.83	5.3	0.8		★	☆	★		☆	★	★		★	☆

首选 ★ 备选 ☆



配件/SPARE PARTS

安装形式	刀具直径 Diameter	刀片夹紧螺钉 Clamping Screw	刀片螺钉扳手 Screw Wrench
A	50-160	S01-045120	D01-115

面铣刀FM45-SE12

Face mill FM45-SE12

轻型切削45°面铣刀
Light cutting 45° face mill

4个切削刃,最大切深可达6mm
刀体双前角设计,切削轻快
可提供修光刃刀片用于精面铣到镜面精铣
适用于钢件、不锈钢、耐热合金、铸铁和铝合金等各种材料的加工
广泛应用于通用机械、工程机械和汽车零部件等加工领域

4 edges insert, A_pmax. 6mm
Dual-positive rake angle designing to make sure light cutting
Wiper insert can be used in face milling to mirror finish face milling
Suitable for machining steel, stainless steel, heat resistant alloy, cast iron and aluminium alloy materials
Widely used in general engineering, construction and automotive components machining

刀片槽型

PM 槽型: 钢件通用面铣
KM 槽型: 钢件通用面铣
E-W 修光刃槽形: 镜面铣削

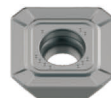
PM geometry: general purpose for steel face milling
KM geometry: general purpose for cast iron face milling
E-W wiper geometry: mirror finish face milling



PM 槽型
PM Geometry



E-W修光刃槽型
E-W wiper Geometry



KM 槽型
KM Geometry



大悬伸面铣
Long overhang face milling



镜面铣
Mirror finish face milling



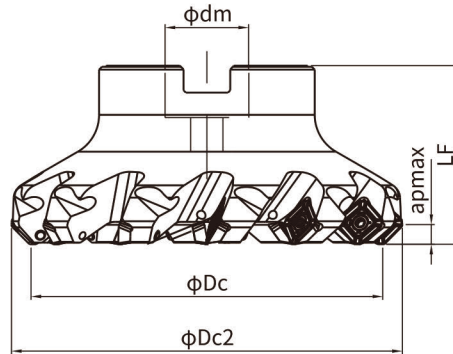
面铣
Face milling

刀片进给切削参数推荐

Feed recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
12	PM	0.34	0.14	0.40
12	KM	0.34	0.14	0.40

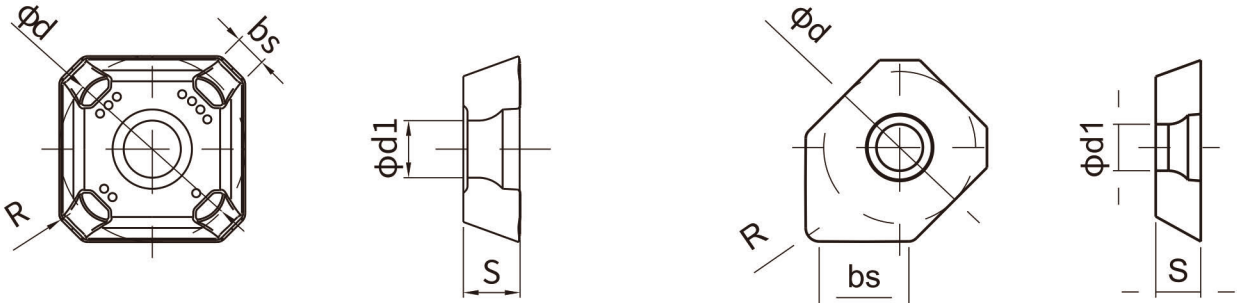
面铣刀FM45-SE12
Face mill FM45-SE12



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF				
50	FM45-050A22SE12-Z03	○	62.5	22	6	40	A	3	+	0.40
50	FM45-050A22SE12-Z04	●	62.5	22	6	40	A	4	+	0.40
50	FM45-050A22SE12-Z05	○	62.5	22	6	40	A	5	+	0.40
63	FM45-063A22SE12-Z04	○	75.5	22	6	40	A	4	+	0.50
63	FM45-063A22SE12-Z05	●	75.5	22	6	40	A	5	+	0.50
63	FM45-063A22SE12-Z06	○	75.5	22	6	40	A	6	+	0.50
80	FM45-080A27SE12-Z04	○	92.5	27	6	50	A	4	+	0.90
80	FM45-080A27SE12-Z06	●	92.5	27	6	50	A	6	+	0.90
80	FM45-080A27SE12-Z08	○	92.5	27	6	50	A	8	+	0.90
100	FM45-100A32SE12-Z05	○	112.5	32	6	50	A	5	+	1.40
100	FM45-100A32SE12-Z07	●	112.5	32	6	50	A	7	+	1.40
100	FM45-100A32SE12-Z10	○	112.5	32	6	50	A	10	+	1.40
125	FM45-125B40SE12-Z06	○	137.5	40	6	63	B	6		2.50
125	FM45-125B40SE12-Z08	●	137.5	40	6	63	B	8		2.50
125	FM45-125B40SE12-Z12	○	137.5	40	6	63	B	12		2.50
160	FM45-160C40SE12-Z07	○	172.5	40	6	63	C	7		5.00
160	FM45-160C40SE12-Z10	●	172.5	40	6	63	C	10		5.00
160	FM45-160C40SE12-Z16	○	172.5	40	6	63	C	16		5.00
200	FM45-200C60SE12-Z08	○	212.5	60	6	63	C	8		6.70
200	FM45-200C60SE12-Z12	○	212.5	60	6	63	C	12		6.70
200	FM45-200C60SE12-Z20	○	212.5	60	6	63	C	20		6.70
250	FM45-250C60SE12-Z10	○	262.5	60	6	63	C	10		8.50
250	FM45-250C60SE12-Z14	○	262.5	60	6	63	C	14		8.50
250	FM45-250C60SE12-Z24	○	262.5	60	6	63	C	24		8.50

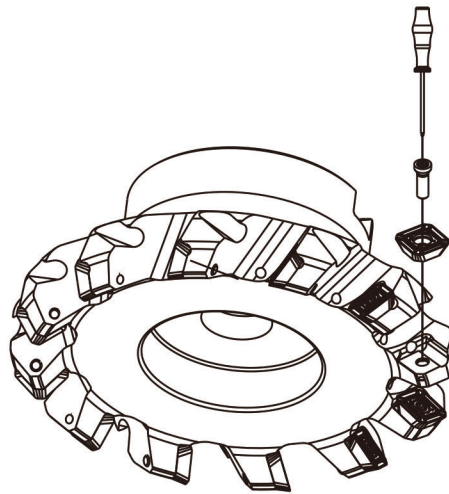
● 常备库存 ○ 按订单生产

面铣刀FM45-SE12 刀片
Face mill FM45-SE12 insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade									
		d	s	d1	r	bs	PM9115	PM9035	PM9115	PM9035	PM9115	PM9035	PM5010	PM9115		
	SEKT12T308M-PM	13.4	3.97	5.5	1.5	2	★	☆	★		☆	★	★		★	☆
	SEKT12T308M-KM	13.4	3.97	5.5	1.5	2	☆	★	★		☆	★	★		★	☆
	SEKT12T3E-W	13.4	3.97	5.5	1.5	8.2	★		★		★		★			

首选 ★ 备选 ☆



配件/SPARE PARTS

安装形式	刀具直径 Diameter	刀片夹紧螺钉 Clamping screw	刀片螺钉扳手 Screw Wrench
A	50-250	S01-050120	D01-120

快进给铣刀HF15-LN

High feed mill HF15-LN

小直径快进给铣刀首选

极小的切深和极高的每齿进给量进行切削

卓越的刀片几何槽型设计，配合优异的刀片材质，确保了安全及优异的切削性能

四个刃口

适用于钢件、不锈钢、耐热合金、铸铁等各种材料的加工

适用于高进给面铣,斜面加工 螺旋插补铣

广泛应用于大多数种加工领域

L槽型：软材料加工首选

M槽型：通用槽型

First choice for small dia. mill cutter

Extremely high feed rate with low depth of cut

Outstanding design of insert geometry combining unique insert grades, secures safe and excellent cutting performance
4 edges insert

Suitable for machining steel, stainless steel, heat resistant alloy, cast iron materials

Suitable for high feed milling, inclined plane machining, helix interpolation milling

Widely used in most industries

L geometry: first choice for sticky materials

M geometry: general purpose geometry



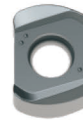
直径16-35mm
Dia.16-35mm
直柄铣刀图



直径16-40mm
Dia.16-40mm
螺纹接口铣刀图



直径40-63mm
Dia.40-63mm
心轴铣刀图



L槽型
L Geometry



M槽型
M Geometry



面铣
Face milling



插铣
Plunge milling



坡走铣
Ranping



螺旋差补铣
Helical interpolation



仿形铣
Profile milling

刀片进给切削参数推荐 Feed recommendations

推荐的切深 Cutting depth recommendations

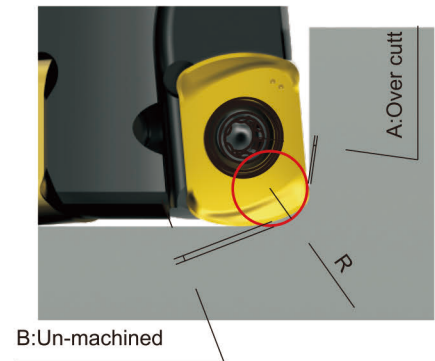
刀片尺寸 Insert size	刀片槽形 Geometry	最小切深(mm) Min. ap	推荐切深ap(mm) Rec. ap	最大切深(mm) Max. ap
06	L	0.1	0.3-0.6	1.0
06	M	0.1	0.3-0.6	1.0

推荐的进给 Cutting feed rates recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	最小进给(mm/r) Min. fz	推荐进给f/z(mm/tooth) Rec. fz	最大进给(mm/r) Max. fz
06	L	0.3	0.6-1.5	2.5
06	M	0.3	0.8-2.0	2.5

编程圆角，过切量及欠切量

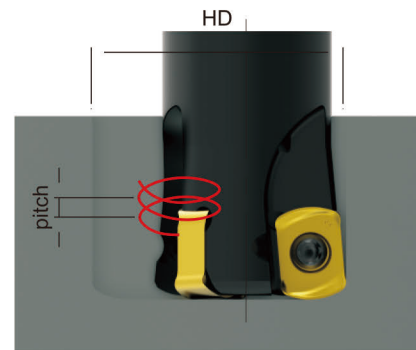
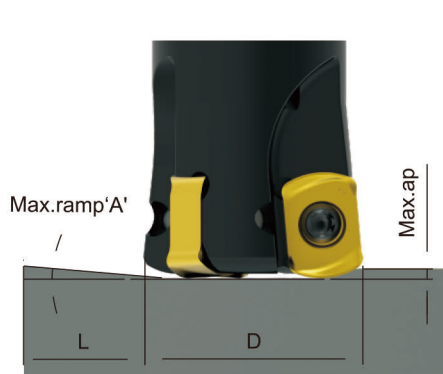
Programming R, over cut and un-machined thickness



铣刀直径 Cutter dia.	编程圆角R Programming radius R	A 过切量 Over cut A	B 欠切量 Un-machined B
16, 17, 18	1.5	0	0.35
	2	0.1	0.22
	2.5	0.27	0.1
>20	2	0	0.42
	2.5	0.12	0.26
	3	0.29	0.17

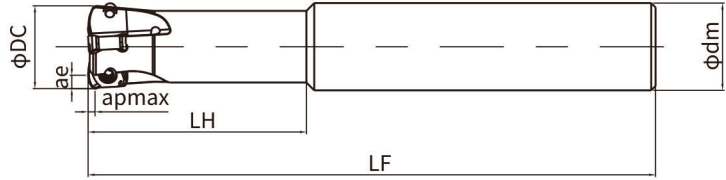
坡走铣及螺旋插补铣参数推荐

Ramping date recommendation



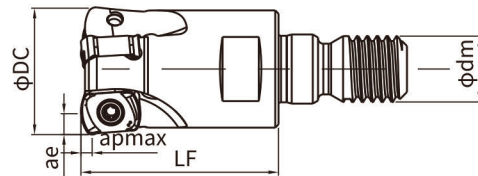
铣刀直径 Cutter dia.	最大坡铣角度(A°) Max. ramp(A°)	最大切深(mm) Max. ap	最小长度(L) Min. length(L)	最小直径 Min. dia.	最大直径 Max. Dia.	最大螺距/转 Max. pitch/rev.
16.0	2.0	0.7	13.0	23.0	32.0	0.7
17.0	2.0	0.7	15.0	25.0	34.0	0.7
18.0	2.3	0.7	16.0	27.0	36.0	0.7
20.0	1.5	1.0	38.0	31.0		0.8
20.0	1.5	1.0	38.0		40.0	1.0
21.0	1.5	1.0	38.0	33.0		0.8
21.0	1.5	1.0	38.0		42.0	1.0
25.0	1.3	1.0	41.0	41.0	50.0	1.0
26.0	1.2	1.0	44.0	43.0	52.0	1.0
32.0	0.9	1.0	57.0	55.0	64.0	1.0
33.0	0.9	1.0	57.0	57.0	66.0	1.0
35.0	0.8	1.0	57.0	61.0	70.0	1.0
40.0	0.7	1.0	64.0	71.0	80.0	1.0
50.0	0.6	1.0	96.0	91.0	100.0	1.0
52.0	0.6	1.0	96.0	95.0	104.0	1.0
63.0	0.5	1.0	115.0	117.0	126.0	1.0

快进给铣刀HF15-LN High feed mill HF15-LN



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions						接口类型	齿数(Z)	内冷状态	重量(kg)
			DC2	dm	apmax	ae	LF	LH				
16	HF15-016R16LN06-Z02	●	/	16	0.7	3.3	30	100	R	2	+	0.12
17	HF15-017R16LN06-Z02	○	/	16	0.7	3.45	40	150	R	2	+	0.15
20	HF15-020R20LN06-Z03	●	/	20	0.7	3.8	50	130	R	3	+	0.32
21	HF15-021R20LN06-Z03	○	/	20	1.0	3.8	20	160	R	3	+	0.39
25	HF15-025R25LN06-Z03	●	/	25	1.0	3.85	60	140	R	3	+	0.57
26	HF15-026R25LN06-Z03	○	/	25	1.0	3.85	30	180	R	3	+	0.68
32	HF15-032R32LN06-Z04	○	/	32	1.0	3.85	70	150	R	4	+	0.97
33	HF15-033R32LN06-Z04	○	/	32	1.0	3.85	40	200	R	4	+	0.99
35	HF15-035R32LN06-Z05	○	/	32	1.0	3.85	50	200	R	5	+	0.99

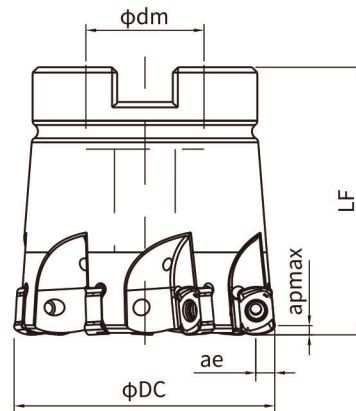
● 常备库存 ○ 按订单生产



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions						接口类型	齿数(Z)	内冷状态	重量(kg)
			DC2	dm	apmax	ae	LF	LH				
16	HF15-016M08LN06-Z02	●	/	08	0.7	3.3	25	42.5	M	2	+	0.10
17	HF15-017M08LN06-Z02	○	/	08	0.7	3.45	25	42.5	M	2	+	0.11
20	HF15-020M10LN06-Z03	●	/	10	1.0	4.3	30	50	M	3	+	0.12
21	HF15-021M10LN06-Z03	○	/	10	1.0	3.8	30	50	M	3	+	0.12
25	HF15-025M12LN06-Z04	●	/	12	1.0	3.85	35	57	M	4	+	0.22
26	HF15-026M12LN06-Z03	○	/	12	1.0	3.85	35	57	M	3	+	0.22
26	HF15-026M12LN06-Z04	○	/	12	1.0	3.85	35	57	M	4	+	0.22
32	HF15-032M16LN06-Z04	○	/	16	1.0	3.85	43	65	M	4	+	0.25
32	HF15-032M16LN06-Z05	○	/	16	1.0	3.85	43	65	M	5	+	0.27
33	HF15-033M16LN06-Z05	○	/	16	1.0	3.85	43	65	M	5	+	0.27
35	HF15-035M16LN06-Z05	○	/	16	1.0	3.85	43	68	M	5	+	0.27
40	HF15-040M16LN06-Z06	○	/	16	1.0	3.9	43	68	M	6	+	0.29

● 常备库存 ○ 按订单生产

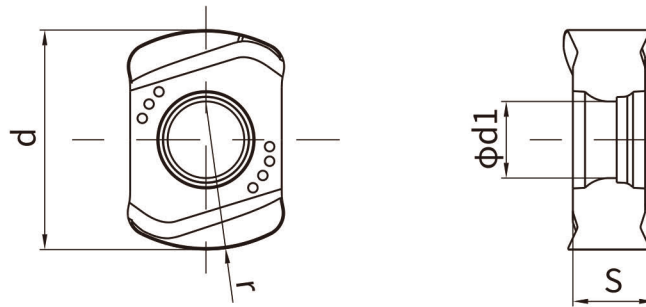
快进给铣刀HF15-LN
High feed mill HF15-LN



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			DC2	dm	apmax	ae	LF				
40	HF15-040A16LN06-Z06	○	/	16	1.0	3.9	40	A	6	+	0.25
50	HF15-050A22LN06-Z07	○	/	22	1.0	3.9	40	A	7	+	0.35
52	HF15-052A22LN06-Z07	●	/	22	1.0	3.9	40	A	7	+	0.40
63	HF15-063A22LN06-Z08	○	/	22	1.0	3.9	40	A	8	+	0.60

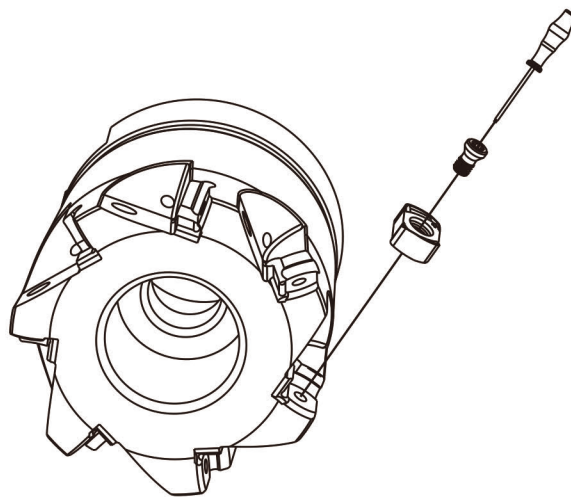
● 常备库存 ○ 按订单生产

快进给铣刀HF15-LN刀片
High feed mill HF15-LN insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade								
		d	s	d1	r	bs	PM9125	PM9035	PM9125	PM9035	PM9125	PM9035	PM5010	PM9125	
	LNMU0603R-L	9	3.73	3.2	6		★	☆	★		☆	★	☆	★	☆
	LNMU0603R-M	9	3.73	3.2	6		★	☆	★		☆	★	☆	★	☆

首选 ★ 备选 ☆



配件/SPARE PARTS

安装形式	刀具直径 Diameter	刀片夹紧螺钉 Clamping srew	刀片螺钉扳手 Screw Wrench
C	20-63	S01-025073	D01-108

快进给铣刀HF15-SD

High feed mill HF15-SD

生产率，安全性和多用途性

高每齿进给与密齿结合以取得最大的金属去除率
卓越的刀片几何槽型设计，配合优异的刀片材质，确保了安全及优异的切削性能
精于各种铣削方式:面铣、插铣、坡走铣、螺旋差补铣、仿形加工、大悬伸加工
适用于钢件、不锈钢、耐热合金、铸铁等各种材料的加工
广泛应用于航空航天、石油天然气、模具等领域

SF槽型：不锈钢、耐热合金材料加工首选
SM槽型：通用槽型
SH槽型：耐冲击重载加工首选

Productivity, safety and versatility

High feed rate and close pitch to get maximum metal removal rate
Outstanding design of insert geometry combining unique insert grades, secures safe and excellent cutting performance
Proficient in wide variety of milling applications: face milling, plunge milling, ramping, helical interpolation, profile milling, long overhang machining
Suitable for machining steel, stainless steel, heat resistant alloy, cast iron materials

Widely used in Aerospace, Oil and Gas, Die and Mould industries
SF geometry: first choice for stainless steel, heat resistant alloy materials
SM geometry: general purpose geometry
SH geometry: first choice for impact-resistant and heavy-duty machining



直径22-40mm 直径20-40mm 直径40-125mm
Dia. 22-40mm Dia. 22-40mm Dia. 40-125mm
直柄铣刀 螺纹接口铣刀 图心轴铣刀图



SF槽型 SM槽型 SH槽型
SF Geometry SM Geometry SH Geometry

*09刀片型腔铣削编程圆角R为2.0
*13刀片型腔铣削编程圆角R为3.5

*09刀片型腔铣削编程圆角R为2.0
Programming R of insert 09 is 2.0 for cavity or pocketing machining.
*13刀片型腔铣削编程圆角R为3.5
Programming R of insert 13 is 3.5 for cavity or pocketing machining.



面铣 Face milling
插铣 Plunge milling
坡走铣 Ramping
螺旋差补铣 Helical interpolation
仿形铣 Profile milling

刀片进给切削参数推荐

Feed recommendations

刀片进给切削参数推荐 Feed recommendations

推荐的切深 Cutting depth recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	最小切深(mm) Min. ap	推荐切深ap(mm) Rec. ap	最大切深(mm) Max. ap
09	SF	0.1	0.5-1.2	1.3
13	SF	0.1	0.5-1.6	1.7
09	SM	0.2	0.5-1.2	1.3
13	SM	0.2	0.5-1.6	1.7
13	SH	0.2	0.5-1.6	1.7
15	SH	0.2	0.5-3.0	3.2

*09刀片型腔铣削编程圆角R为2.0

Programming R of insert 09 is 2.0 for cavity or pocketing machining

*13刀片型腔铣削编程圆角R为3.5

Programming R of insert 13 is 3.5 for cavity or pocketing machining

不同切宽(ae)百分比情况下的推荐每齿进给fz fz recommendations for different ae %

ap=0.5mm

刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
09	SF	1.58(0.50-2.00)	1.10(0.38-1.64)	0.81(0.28-1.22)	0.70(0.25-1.05)	0.7(0.23-0.92)
09	SM	1.58(0.52-2.00)	1.10(0.40-1.64)	0.81(0.30-1.22)	0.70(0.30-1.05)	0.7(0.25-0.92)

ap=0.8mm

刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
09	SF	1.42(0.48-2.00)	1.00(0.35-1.52)	0.74(0.26-1.11)	0.64(0.23-0.96)	0.6(0.21-0.88)
09	SM	1.42(0.52-2.00)	1.00(0.40-1.52)	0.74(0.30-1.11)	0.64(0.30-0.96)	0.6(0.25-0.88)
13	SF	1.79(0.55-2.80)	1.26(0.38-2.10)	0.94(0.30-1.45)	0.80(0.26-1.22)	0.72(0.23-1.14)
13	SM	1.79(0.60-2.80)	1.26(0.42-2.10)	0.94(0.33-1.45)	0.80(0.29-1.22)	0.72(0.25-1.14)
13	SH	2.00(0.78-3.00)	1.44(0.57-2.18)	1.06(0.43-1.55)	0.93(0.37-1.32)	0.84(0.33-1.23)

ap=1.0mm

刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
09	SF	1.28(0.44-2.00)	0.90(0.32-1.37)	0.67(0.24-1.00)	0.58(0.21-0.87)	0.45(0.19-0.80)
09	SM	1.28(0.50-2.00)	0.90(0.36-1.37)	0.67(0.30-1.00)	0.58(0.26-0.87)	0.45(0.22-0.80)
13	SF	1.59(0.49-2.50)	1.13(0.35-1.78)	0.84(0.26-1.31)	0.73(0.23-1.14)	0.67(0.21-1.04)
13	SM	1.59(0.53-2.50)	1.13(0.40-1.78)	0.84(0.30-1.31)	0.73(0.26-1.14)	0.67(0.25-1.04)
13	SH	1.80(0.70-2.70)	1.28(0.51-1.94)	0.95(0.38-1.41)	0.83(0.33-1.22)	0.76(0.30-1.12)

ap=1.2mm

刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
09	SF	1.10(0.38-1.70)	0.80(0.27-1.10)	0.58(0.20-0.87)	0.50(0.18-0.75)	0.46(0.16-0.69)
09	SM	1.10(0.40-1.70)	0.80(0.30-1.20)	0.58(0.23-0.87)	0.50(0.20-0.75)	0.46(0.20-0.70)
13	SF	1.39(0.43-2.20)	1.00(0.31-1.56)	0.74(0.23-1.15)	0.64(0.20-1.00)	0.59(0.19-0.92)
13	SM	1.39(0.50-2.20)	1.00(0.36-1.29)	0.74(0.26-1.15)	0.64(0.25-1.00)	0.59(0.24-0.92)
13	SH	1.57(0.62-2.41)	1.12(0.45-1.70)	0.84(0.33-1.26)	0.73(0.29-1.10)	0.67(0.27-1.00)

刀片进给切削参数推荐 Feed recommendations

不同切宽(ae)百分比情况下的推荐每齿进给fz fz recommendations for different ae %

ap=1.6mm

刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
13	SF	1.15(0.36-1.81)	0.83(0.26-1.29)	0.62(0.20-0.96)	0.54(0.17-0.83)	0.45(0.15-0.76)
13	SM	1.15(0.40-1.81)	0.83(0.30-1.29)	0.62(0.23-0.96)	0.54(0.20-0.83)	0.45(0.20-0.76)
13	SH	1.30(0.51-1.99)	0.93(0.37-1.41)	0.70(0.28-1.05)	0.61(0.24-0.91)	0.55(0.22-0.83)
15	SH	1.45(0.57-2.30)	1.04(0.41-1.67)	0.77(0.31-1.24)	0.67(0.27-1.08)	0.62(0.25-0.99)

ap=2.0mm

刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
15	SH	1.30(0.51-2.12)	0.93(0.37-1.50)	0.70(0.28-1.11)	0.61(0.24-0.97)	0.55(0.22-0.89)

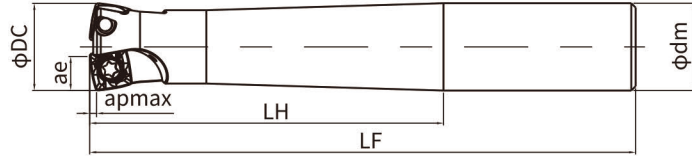
ap=2.5mm

刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
15	SH	1.20(0.48-1.96)	0.87(0.35-1.38)	0.68(0.26-1.02)	0.66(0.23-0.90)	0.50(0.20-80)

ap=3.0mm

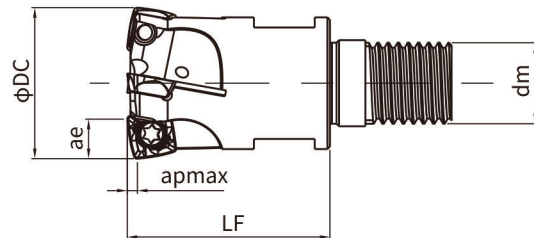
刀片尺寸 Insert size	刀片槽形 Geometry	5% ae	10% ae	20% ae	30% ae	40%-100% ae
15	SH	1.11(0.44-1.80)	0.80(0.32-1.28)	0.59(0.24-0.95)	0.52(0.21-0.83)	0.47(0.19-0.76)

快进给铣刀HF15-SD
High feed mill HF15-SD



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions						接口类型	齿数(Z)	内冷状态	重量(kg)
			DC2	dm	apmax	ae	LF	LH				
22	HF15-022R20SD09-Z02	●	/	20	1.3	7	140	65	R	2	+	0.35
25	HF15-025R25SD09-Z03	●	/	25	1.3	7	145	80	R	3	+	0.50
30	HF15-030R25SD09-Z04	○	/	25	1.3	7	145	80	R	4	+	0.75
32	HF15-032R32SD09-Z04	●	/	32	1.3	7	145	80	R	4	+	0.80
40	HF15-040R32SD09-Z05	○	/	32	1.3	7	145	80	R	5	+	1.30

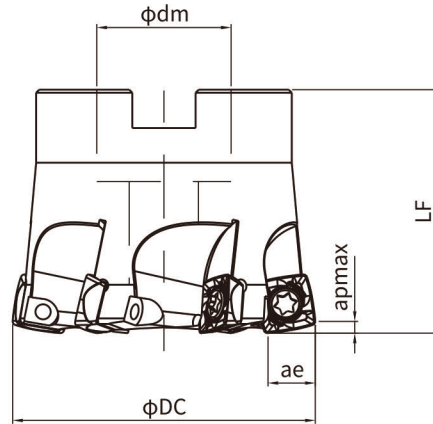
● 常备库存 ○ 按订单生产



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			DC2	dm	apmax	ae	LF				
20	HF15-020M08SD09-Z02	○	/	M08	1.3	7	30	M	2	+	0.10
22	HF15-022M10SD09-Z02	○	/	M10	1.3	7	30	M	2	+	0.11
25	HF15-025M12SD09-Z02	○	/	M12	1.3	7	35	M	2	+	0.12
25	HF15-025M12SD09-Z03	●	/	M12	1.3	7	35	M	3	+	0.12
32	HF15-032M16SD09-Z03	●	/	M16	1.3	7	43	M	3	+	0.22
32	HF15-032M16SD09-Z04	○	/	M16	1.3	7	43	M	4	+	0.25
40	HF15-040M16SD09-Z05	○	/	M16	1.3	7	43	M	2	+	0.27

● 常备库存 ○ 按订单生产

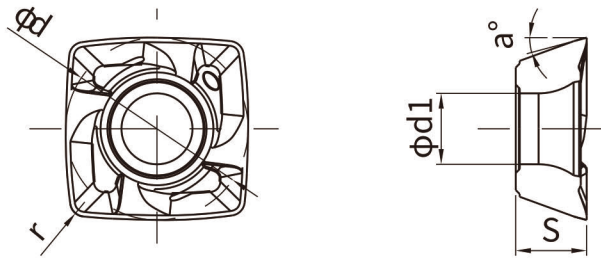
快进给铣刀HF15-SD High feed mill HF15-SD






直径 Dc	型 号	库存 状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			DC2	dm	apmax	ae	LF				
40	HF15-040A16SD09-Z04	○	/	16	1.3	7	35	A	4	+	0.30
40	HF15-040A16SD09-Z05	●	/	16	1.3	7	35	A	5	+	0.30
50	HF15-050A22SD09-Z04	○	/	22	1.3	7	40	A	4	+	0.40
50	HF15-050A22SD09-Z06	●	/	22	1.3	7	40	A	6	+	0.40
63	HF15-063A22SD09-Z05	○	/	22	1.3	7	40	A	5	+	0.70
63	HF15-063A22SD09-Z07	○	/	22	1.3	7	40	A	7	+	0.60
63	HF15-063A22SD09-Z08	○	/	22	1.3	7	40	A	8	+	0.60
80	HF15-080B27SD09-Z07	○	/	27	1.3	7	50	B	7	+	1.20
80	HF15-080B27SD09-Z09	○	/	27	1.3	7	50	B	9	+	1.10
80	HF15-080B27SD09-Z10	○	/	27	1.3	7	50	B	0	+	1.10
50	HF15-050A22SD13-Z04	○	/	22	1.7	10	40	A	4	+	0.50
50	HF15-050A22SD13-Z05	●	/	22	1.7	10	40	A	5	+	0.40
52	HF15-052A22SD13-Z05	●	/	22	1.7	10	40	A	5	+	0.40
50	HF15-050A22SD13-Z06	○	/	22	1.7	10	40	A	6	+	0.40
63	HF15-063A22SD13-Z05	●	/	22	1.7	10	40	A	5	+	0.70
63	HF15-063A22SD13-Z06	○	/	22	1.7	10	40	A	6	+	0.60
63	HF15-063A22SD13-Z07	●	/	22	1.7	10	40	A	7	+	0.60
80	HF15-080A27SD13-Z05	○	/	27	1.7	10	50	A	5	+	1.20
80	HF15-080A27SD13-Z06	●	/	27	1.7	10	50	A	6	+	1.20
80	HF15-080A27SD13-Z08	●	/	27	1.7	10	50	A	8	+	1.20
80	HF15-080A27SD13-Z09	○	/	27	1.7	10	50	A	9	+	1.10
100	HF15-100A32SD13-Z07	●	/	32	1.7	10	50	A	7	+	1.60
100	HF15-100A32SD13-Z09	●	/	32	1.7	10	50	A	9	+	1.60
100	HF15-100A32SD13-Z11	○	/	32	1.7	10	50	A	1	+	1.60
125	HF15-125B40SD13-Z8	○	/	40	1.7	10	63	B	8	+	3.30
125	HF15-125B40SD13-Z10	●	/	40	1.7	10	63	B	10		3.30
125	HF15-125B40SD13-Z12	○	/	40	1.7	10	63	B	12		3.30
80	HF15-080A27SD15-Z06	○	/	27	3.2	12	50	A	6	+	1.20
80	HF15-080A27SD15-Z07	○	/	27	3.2	12	50	A	7	+	1.10
100	HF15-100A32SD15-Z08	○	/	32	3.2	12	50	A	8	+	1.50
100	HF15-100A32SD15-Z09	○	/	32	3.2	12	50	A	9	+	1.50
125	HF15-125B40SD15-Z10	○	/	40	3.2	12	63	B	10		3.30
125	HF15-125B40SD15-Z11	○	/	40	3.2	12	63	B	11		3.30
160	HF15-160C40SD15-Z12	○	/	40	3.2	12	63	C	12		4.30
160	HF15-160C40SD15-Z13	○	/	40	3.2	12	63	C	13		4.30

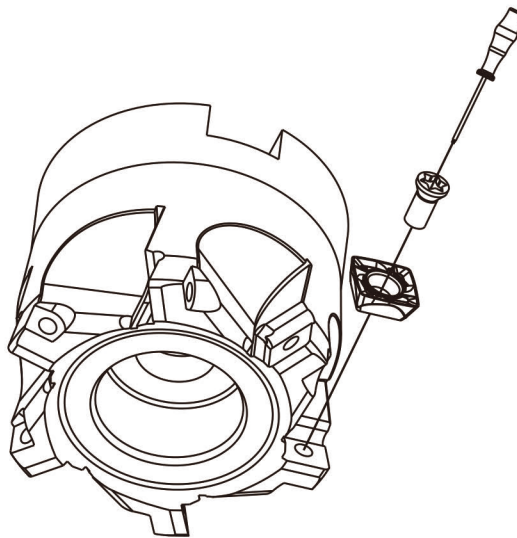
● 常备库存 ○ 按订单生产

快进给铣刀SD-123.1



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade									
		d	s	d1	α	r	PM9215	PM9035	PM9215	PM9035	PM9215	PM9035	PM9215	PM9035	PM5010	PM9215
	SDMT090307-SF	9	3.5	3.5	15°	0.7	★	☆	★		☆	★	★	☆	★	☆
	SDMT130512-SF	13.0	5.0	5.5	15°	1.2	★	☆	★		☆	★	★	☆	★	☆
	SDMT090307-SM	9	3.5	3.5	15°	0.7	★	☆	★		☆	★	★	☆	★	☆
	SDMT130512-SM	13.0	5.0	5.5	15°	1.2	★	☆	★		☆	★	★	☆	★	☆
	SDGW150510-SH	15.878	5.7	5.5	15°	1.0		★				★				

首选 ★ 备选 ☆



配件/SPARE PARTS

安装形式	刀具直径 Diameter	刀片夹紧螺钉 Clamping screw	刀片螺钉扳手 Screw Wrench
09	20-80	S01-030072	D01-109
13	40-125	S01-045120	D01-120
15	80-160	S01-050120	D01-120

方肩铣刀SM90-AO

Square shoulder mill SM90-AO

全能的深/浅方肩铣刀
加工精度和多用途性
卓越的切削刃几何形状设计，配合锋利的刀片槽型，确保了优异的加工表面质量和光洁度
精于各种铣削方式:面铣、方肩铣、槽铣、插铣、坡走铣、螺旋差补铣、等高分层铣加工
适用于钢件、不锈钢、耐热合金、铸铁等各种材料的加工。
广泛应用于航空航天、汽车零部件、能源、模具、通用机械等领域

刀片槽型
PL 槽型：轻型加工，高表面质量要求首选
PM 槽型：通用槽型

Comprehensive deep/shallow shoulder milling cutter
Precision and versatility
Outstanding design of insert geometry combining sharp insert edge, secures high precision and surface finish
Proficient in wide variety of milling applications:face milling,square shoulder milling,slot milling,plunge milling,ramping, helical interpolation and contour milling
Suitable for machining steel,stainless steel,heat resitant alloy, cast iron materials
Widely used in aerospace,automotive components,energy,die and mould,general engineering industries

PL geometry: first choice for light cutting,high precision and surface finish request
PM geometry: general purpose geometry



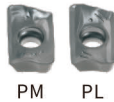
直径范围：16-40mm
Diameter range: 16-40mm

直径范围：40-125mm
Diameter range: 40-125mm

直径范围：32-40mm
Diameter range: 32-40mm

直径范围：32-40mm
Diameter range: 32-40mm

直径范围：40-100mm
Diameter range: 40-100mm



PM PL



面铣
Face milling



插铣
Plunge milling



坡走铣
Ramping



螺旋差补铣
Helical interpolation



槽铣
Slot milling



方肩铣
Square shoulder milling



等高分层铣
Contour milling

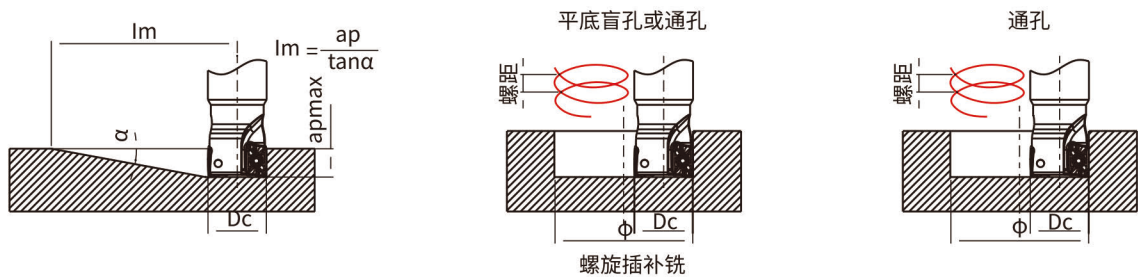
刀片进给切削参数推荐

Feed recommendations

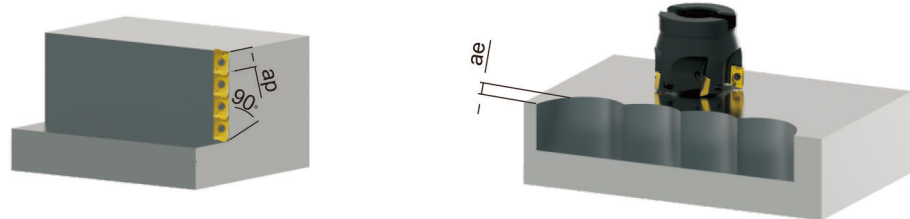
刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
11 (r=0.8)	PL	0.08	0.05	0.12
17 (r=0.8)	PL	0.08	0.05	0.12
11 (r=0.8)	PM	0.10	0.08	0.15
17 (r=0.8)	PM	0.10	0.08	0.15

方肩铣和插铣参数推荐

Square shoulder milling and plunge milling cutting data recommendations



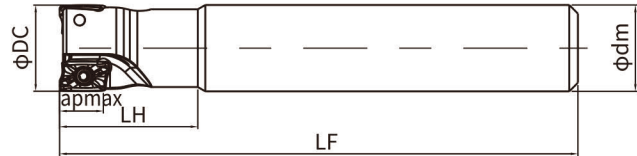
刀片尺寸 Insert size	刀具直径 DC	方肩铣最大切深 Square shoulder milling apmax	插铣最大切宽 Plunge milling aemax
11 (r=0.8)	16	9.5	5.5
	20	9.4	5.5
	25	9.3	5.5
	32	9.2	5.5
	40-80	5.9	5.5
17 (r=0.8)	25	15.2	5.5
	32	15.1	5.5
	40	15.0	5.5
	50	14.9	5.5
	63-125	9.6	5.5



刀片尺寸 Insert size	刀具直径 DC	方肩铣最大切深 Square shoulder milling apmax	插铣最大切宽 Plunge milling aemax
11 (r=0.8)	16	9.5	5.5
	20	9.4	5.5
	25	9.3	5.5
	32	9.2	5.5
	40-80	5.9	5.5
17 (r=0.8)	25	15.2	5.5
	32	15.1	5.5
	40	15.0	5.5
	50	14.9	5.5
	63-125	9.6	5.5

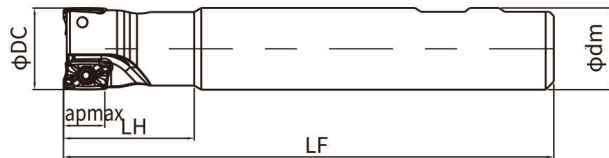
方肩铣刀SM90-AO

Square shoulder mill SM90-AO



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	L	LH				
16	SM90-016R16AO11-Z02	●	/	16	10	145	25	R	2	+	0.38
20	SM90-020R20AO11-Z02	○	/	20	10	170	40	R	2	+	0.50
20	SM90-020R20AO11-Z03	●	/	20	10	110	25	R	3	+	0.38
25	SM90-025R25AO11-Z02	○	/	25	10	210	50	R	2	+	0.54
25	SM90-025R25AO11-Z03	●	/	25	10	120	32	R	3	+	0.54
32	SM90-032R32AO11-Z02	○	/	32	10	250	65	R	2	+	1.45
32	SM90-032R32AO11-Z03	●	/	32	10	130	40	R	3	+	0.82
25	SM90-025R25AO17-Z02	●	/	25	15.7	210	50	R	2	+	0.50
32	SM90-032R32AO17-Z02	○	/	32	15.7	250	65	R	2	+	1.50
32	SM90-032R32AO17-Z03	●	/	32	15.7	130	40	R	3	+	0.80
40	SM90-040R32AO17-Z02	○	/	32	15.7	250	65	R	2	+	1.70
40	SM90-040R32AO17-Z03	○	/	32	15.7	170	50	R	3	+	1.10
40	SM90-040R32AO17-Z04	●	/	32	15.7	170	50	R	4	+	1.10

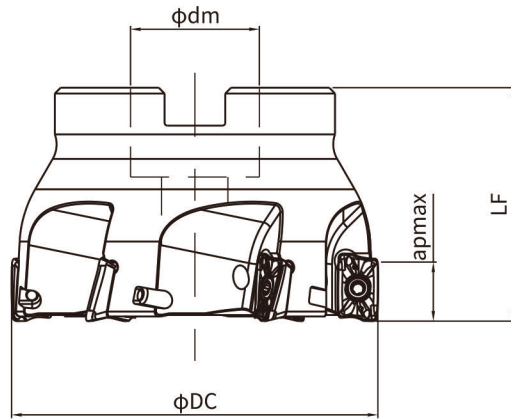
● 常备库存 ○ 按订单生产



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF	LH				
16	SM90-016E16AO11-Z02	●	/	16	10	73	25	E	2	+	0.22
20	SM90-020E20AO11-Z02	●	/	20	10	81	25	E	2	+	0.29
20	SM90-020E20AO11-Z03	○	/	20	10	81	25	E	3	+	0.29
25	SM90-025E25AO11-Z02	●	/	25	10	88	32	E	2	+	0.40
25	SM90-025E25AO11-Z03	○	/	25	10	88	32	E	3	+	0.38
32	SM90-032E32AO11-Z02	●	/	32	10	100	40	E	2	+	0.65
32	SM90-032E32AO11-Z03	○	/	32	10	100	40	E	3	+	0.68
25	SM90-025E25AO17-Z02	○	/	25	15.7	88	32	E	2	+	0.41
32	SM90-032E32AO17-Z02	●	/	32	15.7	100	40	E	2	+	0.64
32	SM90-032E32AO17-Z03	○	/	32	15.7	100	40	E	3	+	0.62
40	SM90-040E32AO17-Z02	○	/	32	15.7	110	/	E	2	+	0.82
40	SM90-040E32AO17-Z03	●	/	32	15.7	110	/	E	3	+	0.80
40	SM90-040E32AO17-Z04	○	/	32	15.7	110	/	E	4	+	0.80

● 常备库存 ○ 按订单生产

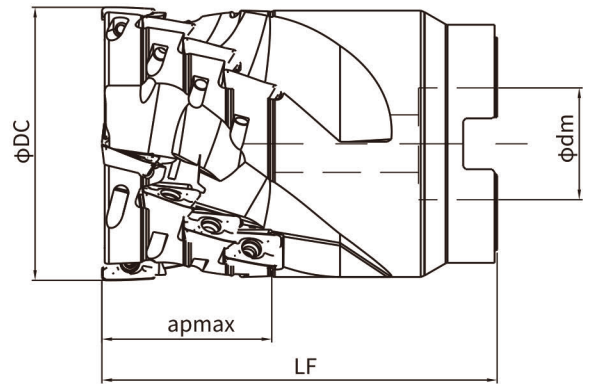
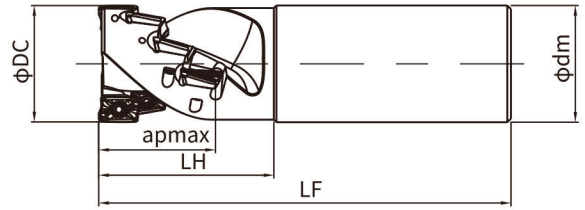
方肩铣刀SM90-AO
Square shoulder mill SM90-AO



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	a _{pmax}	LF				
40	SM90-040A16AO11-Z04	●	/	16	10	40	A	4	+	0.38
40	SM90-040A16AO11-Z06	●	/	16	10	40	A	6	+	0.38
50	SM90-050A22AO11-Z05	○	/	22	10	40	A	5	+	0.48
50	SM90-050A22AO11-Z07	●	/	22	10	40	A	7	+	0.48
63	SM90-063A22AO11-Z06	○	/	22	10	40	A	6	+	0.58
63	SM90-063A22AO11-Z08	●	/	22	10	40	A	8	+	0.59
80	SM90-080A27AO11-Z07	○	/	27	10	50	A	7	+	0.99
80	SM90-080A27AO11-Z10	●	/	27	10	50	A	10	+	0.86
40	SM90-040A16AO17-Z02	○	/	16	15.7	40	A	2	+	0.38
40	SM90-040A16AO17-Z03	○	/	16	15.7	40	A	3	+	0.46
40	SM90-040A16AO17-Z04	●	/	16	15.7	40	A	4	+	0.44
50	SM90-050A22AO17-Z03	○	/	22	15.7	40	A	3	+	0.54
50	SM90-050A22AO17-Z04	●	/	22	15.7	40	A	4	+	0.59
50	SM90-050A22AO17-Z05	○	/	22	15.7	40	A	5	+	0.54
63	SM90-063A22AO17-Z04	○	/	22	15.7	40	A	4	+	0.72
63	SM90-063A22AO17-Z05	●	/	22	15.7	40	A	5	+	0.72
63	SM90-063A22AO17-Z06	○	/	22	15.7	40	A	6	+	0.68
80	SM90-080A27AO17-Z04	○	/	27	15.7	50	A	4	+	0.96
80	SM90-080A27AO17-Z06	●	/	27	15.7	50	A	6	+	0.96
80	SM90-080A27AO17-Z08	○	/	27	15.7	50	A	8	+	0.94
100	SM90-100A32AO17-Z05	○	/	32	15.7	50	A	5	+	1.77
100	SM90-100A32AO17-Z07	●	/	32	15.7	50	A	7	+	1.73
100	SM90-100A32AO17-Z09	○	/	32	15.7	50	A	9	+	1.57
125	SM90-125B40AO17-Z06	○	/	40	15.7	63	B	6		2.71
125	SM90-125B40AO17-Z08	●	/	40	15.7	63	B	8		2.70
125	SM90-125B40AO17-Z11	○	/	40	15.7	63	B	11		2.74

● 常备库存 ○ 按订单生产

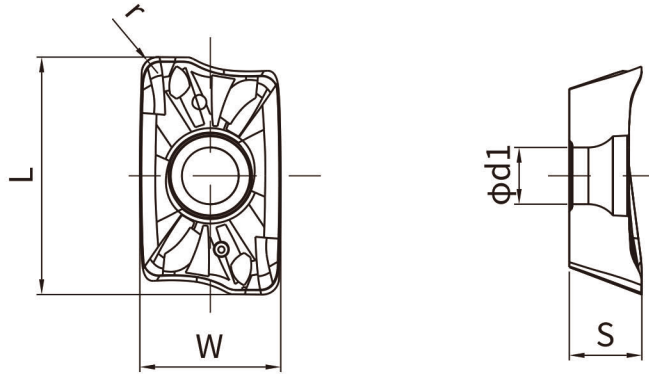
长刃方肩铣刀SM90-AO
Square shoulder mill SM90-AO



直径 Dc	型号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF	LH				
32	LE90-032E25AO11-Z02	○	/	25	32	109	/	E	2/8	+	0.60
32	LE90-032E25AO11-Z03	○	/	32	32	113	48	E	2/8	+	0.90
40	LE90-040E25AO11-Z04	○	/	40	39	131	58	E	3/15	+	1.40
40	LE90-040A16AO11-Z03	○	/	16	36	57		A	3/12	+	0.80
40	LE90-040A16AO11-Z04	○	/	16	36	57		A	4/16	+	0.80
44	LE90-044A16AO11-Z03	○	/	16	45	65		A	3/15	+	0.90
50	LE90-050A22AO11-Z03	●	/	22	54	74		A	3/18	+	1.10
50	LE90-050A22AO11-Z04	○	/	22	36	57		A	4/16	+	1.00
50	LE90-050A22AO11-Z05	○	/	22	36	57		A	5/20	+	1.00
54	LE90-054A22AO11-Z04	○	/	22	36	57		A	4/16	+	1.10
44	LE90-044A16AO17-Z02	○	/	16	40	65		A	2/6	+	0.91
50	LE90-050A22AO17-Z02	○	/	22	52	82		A	2/8	+	1.30
63	LE90-063A27AO17-Z03	●	/	27	52	82		A	3/12	+	1.58
80	LE90-080A32AO17-Z03	●	/	32	65	96		A	3/15	+	2.88
00	LE90-100A40AO17-Z04	○	/	40	52	82		A	4/16	+	3.37

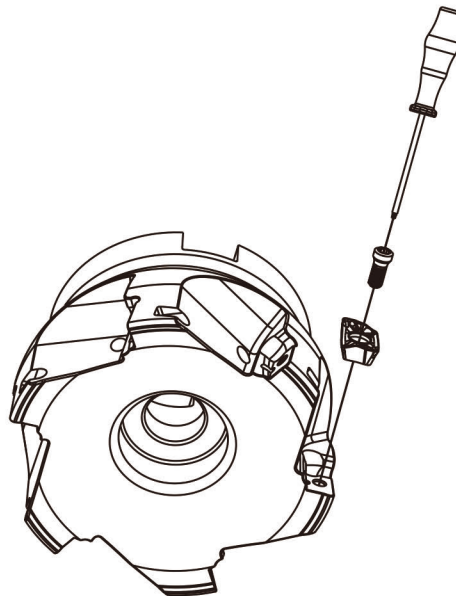
● 常备库存 ○ 按订单生产

方肩铣刀SM90-AO刀片
Square shoulder mill SM90-AO insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade									
		l	w	s	d1	r	PM9215	PM3020B	PM9215	PM3020B	PM9215	PM3020B	PM9215	PM3020B	PM5010	PM9215
	AOMX11T308-PL	11	6.8	3.59	2.8	0.8	★	☆	★		☆	★	★	☆	★	☆
	AOMX11T308-PM	11	6.8	3.59	2.8	0.8	★	☆	★		☆	★	★	☆	★	☆
	AOMX11T331-PM	11	6.8	3.59	2.8	0.8	★	☆	★		☆	★	★	☆	★	☆
	AOMX170408-PL	17	9.6	4.76	4.1	0.8	★	☆	★		☆	★	★	☆	★	☆
	AOMX170408-PM	17	9.6	4.76	4.1	0.8	★	☆	★		☆	★	★	☆	★	☆
	AOMX170408-PH	17	9.6	4.76	4.1	0.8	★	☆	☆		☆	★	★	☆	★	☆

首选 ★ 备选 ☆



配件/SPARE PARTS

刀片尺寸 Insert size	刀具直径 Diameter	刀片夹紧螺钉 Clamping srew	刀片螺钉扳手 Screw Wrench
11	16-20	S01-025059	Q01-108
11	20-80	S01-025073	Q01-108
17	25	S01-040070	D01-115
17	32-125	S01-040090	D01-115

方肩铣刀SM90-AN

Square shoulder mill SM90-AN

通用四刃方肩铣刀
 切削非常轻快
 优异的加工表面质量和光洁度
 适用于钢件、不锈钢、耐热合金、铸铁等各种材料的加工
 广泛应用于航空航天、汽车零部件、能源、模具、通用机械等领域

刀片槽型
 PL槽型：轻型加工，高表面质量要求首选
 PM槽型：通用槽型

General purpose 4 edges shoulder milling cutter
 Extremely light cutting
 High precision and surface finish
 Suitable for machining steel, stainless steel, heat resistant alloy, cast iron materials
 Widely used in aerospace, automotive components, energy, die and mould, general engineering industries

PL geometry: first choice for light cutting, high precision and surface finish request
 PM geometry: general purpose geometry



直径范围：20-32mm
 Diameter range: 20-32mm



直径范围：40-160mm
 Diameter range: 40-160mm



直径范围：40-100mm
 Diameter range: 40-100mm



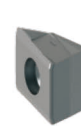
插铣
 Plunge milling



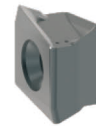
槽铣
 Slot milling



方肩铣
 Square shoulder milling



PL槽型
 PL Geometry



PM槽型
 PM Geometry

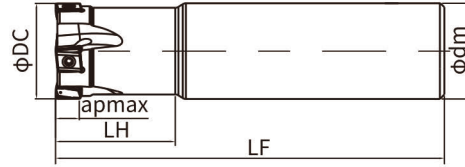
刀片进给切削参数推荐

Feed recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
04 (r=0.4)	PL	0.08	0.05	0.12
11 (r=0.8)	PM	0.10	0.08	0.15

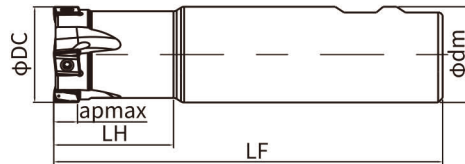
方肩铣刀SM90-AN

Square shoulder mill SM90-AN



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF	LH				
20	SM90-020R20AN08-Z02	○	/	20	8	110	25	R	2	+	0.50
20	SM90-020R20AN08-Z03	●	/	20	8	110	25	R	3	+	0.50
25	SM90-025R25AN08-Z03	○	/	25	8	120	32	R	3	+	0.60
25	SM90-025R25AN08-Z04	●	/	25	8	120	32	R	4	+	0.60
32	SM90-032R32AN08-Z04	○	/	32	8	130	40	R	4	+	0.71
32	SM90-032R32AN08-Z05	●	/	32	8	130	40	R	5	+	0.70

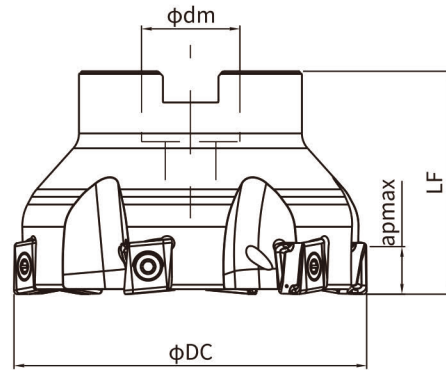
● 常备库存 ○ 按订单生产



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF	LH				
25	SM90-025E25AN08-Z03	○	/	25	8	100	32	E	3	+	0.60
25	SM90-025E25AN08-Z04	○	/	25	8	100	32	E	4	+	0.60
32	SM90-032E32AN08-Z04	○	/	32	8	110	40	E	4	+	0.70
32	SM90-032E32AN08-Z05	○	/	32	8	110	40	E	5	+	0.70
40	SM90-040E32AN08-Z04	○	/	32	8	120	25	E	4	+	1.20
40	SM90-040E32AN08-Z06	●	/	32	8	120	25	E	6	+	1.25
40	SM90-040E32AN11-Z05	○	/	32	11	120	25	E	5	+	1.25

● 常备库存 ○ 按订单生产

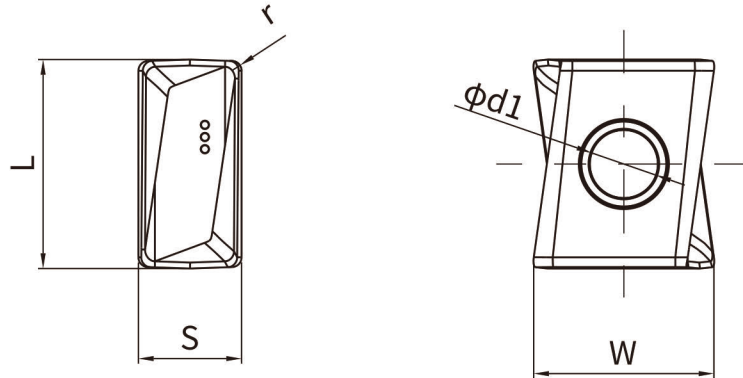
方肩铣刀SM90-AN
Square shoulder mill SM90-AN



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF	LH				
40	SM90-040A16AN08-Z04	○	/	16	8	40		A	4	+	0.38
40	SM90-040A16AN08-Z06	○	/	16	8	40		A	6	+	0.38
50	SM90-050A22AN08-Z05	●	/	22	8	40		A	5	+	0.48
50	SM90-050A22AN08-Z07	○	/	22	8	40		A	7	+	0.48
63	SM90-063A22AN08-Z07	●	/	22	8	40		A	7	+	0.58
63	SM90-063A22AN08-Z10	○	/	22	8	40		A	10	+	0.59
80	SM90-080B27AN08-Z09	●	/	27	8	50		B	9	+	0.99
80	SM90-080B27AN08-Z13	○	/	27	8	50		B	13	+	0.86
40	SM90-040A16AN11-Z04	○	/	16	11	40		A	4	+	0.38
40	SM90-040A16AN11-Z05	○	/	16	11	40		A	5	+	0.38
50	SM90-050A22AN11-Z05	●	/	22	11	40		A	5	+	0.54
50	SM90-050A22AN11-Z06	○	/	22	11	40		A	6	+	0.59
63	SM90-063A22AN11-Z04	○	/	22	11	40		A	4	+	0.72
63	SM90-063A22AN11-Z06	●	/	22	11	40		A	6	+	0.72
63	SM90-063A22AN11-Z08	○	/	22	11	40		A	8	+	0.68
80	SM90-080A27AN11-Z05	○	/	27	11	50		A	5	+	0.94
80	SM90-080A27AN11-Z07	●	/	27	11	50		A	7	+	0.96
80	SM90-080A27AN11-Z10	○	/	27	11	50		A	10	+	0.99
100	SM90-100A32AN11-Z07	○	/	32	11	50		A	7	+	1.77
100	SM90-100A32AN11-Z09	●	/	32	11	50		A	9	+	1.73
100	SM90-100A32AN11-Z13	○	/	32	11	50		A	3	+	1.57
125	SM90-125B40AN11-Z09	○	/	40	11	63		B	9		2.71
125	SM90-125B40AN11-Z11	●	/	40	11	63		B	11		2.70
125	SM90-125B40AN11-Z16	○	/	40	11	63		B	16		2.74
160	SM90-160C40AN11-Z09	○	/	40	11	63		C	9		5.00
160	SM90-160C40AN11-Z13	○	/	40	11	63		C	13		5.00

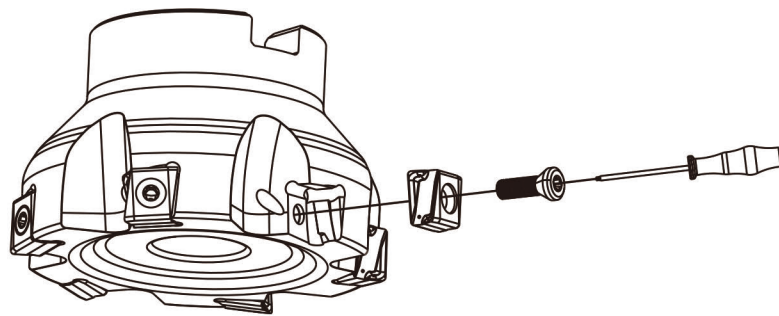
● 常备库存 ○ 按订单生产

方肩铣刀SM90-AN刀片
Square shoulder mill SM90-AN insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade									
		l	w	s	d1	r	PM9215	PM3020B	PM9215	PM3020B	PM9215	PM3020B	PM9215	PM3020B	PM5010	PM9215
	ANGX080404-PL	8.39	7.73	4.3	3.3	0.8	★	★	★		☆	★	★	☆	★	☆
	ANGX110708-PM	11.5	11.76	7.11	4.5	0.8	★	★	★		☆	★	★	☆	★	☆
	ANGX110712-PM	11.5	11.76	7.11	4.5	1.2	★	★	★		☆	★	★	☆	★	☆

首选 ★ 备选 ☆



配件/SPARE PARTS

刀片尺寸 Insert size	刀具直径 Diameter	刀片夹紧螺钉 Clamping srew	刀片螺钉扳手 Screw Wrench
08	40-250	S01-040120	D01-115

方肩铣刀SM90-ZN Square shoulder mill SM90-ZN

六刃方肩铣刀
最具经济性的90°铣刀
适用于钢件、不锈钢、耐热合金、铸铁等各种材料的加工
广泛应用于航空航天、汽车零部件、能源、模具、通用机械等领域

刀片槽型
BM槽型：轻型加工，高表面质量要求首选
M槽型：通用槽型

6 edges shoulder milling cutter
Most economical milling cutter
Suitable for machining steel, stainless steel, heat resistant alloy, cast iron materials
Widely used in aerospace, automotive components, energy, die and mould, general engineering industries

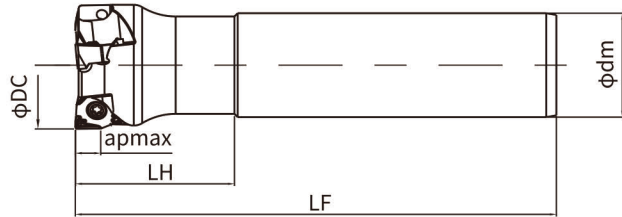
BM geometry: first choice for light cutting, high precision and surface finish request
M geometry: general purpose geometry



刀片进给切削参数推荐 Feed recommendations

刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
08 (r=0.8)	BM	0.08	0.05	0.12
08 (r=0.8)	M	0.10	0.08	0.15

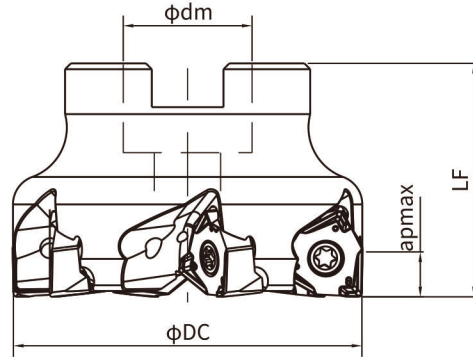
方肩铣刀SM90-ZN Square shoulder mill SM90-ZN



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF	LH				
40	SM90-040E32ZN08-Z03	○	/	32	7	120	45	E	3	+	1.25
40	SM90-040E32ZN08-Z04	○	/	32	7	120	45	E	4	+	1.20

● 常备库存 ○ 按订单生产

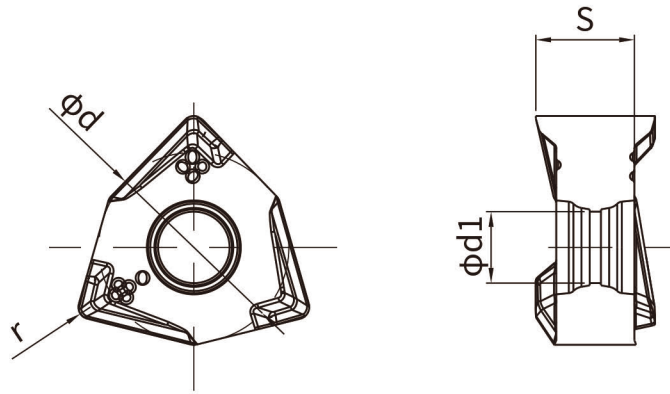
方肩铣刀SM90-ZN Square shoulder mill SM90-ZN




直径 Dc	型 号	库存状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF				
50	SM90-050A22ZN08-Z04	○	/	22	7	40	A	4	+	0.48
50	SM90-050A22ZN08-Z05	○	/	22	7	40	A	5	+	0.48
63	SM90-063A22ZN08-Z04	○	/	22	7	40	A	4	+	0.58
63	SM90-063A22ZN08-Z06	○	/	22	7	40	A	6	+	0.58
63	SM90-063A22ZN08-Z07	○	/	22	7	40	A	7	+	0.58
80	SM90-080A27ZN08-Z05	○	/	27	7	50	A	5	+	0.99
80	SM90-080A27ZN08-Z07	○	/	27	7	50	A	7	+	0.90
80	SM90-080A27ZN08-Z09	○	/	27	7	50	A	9	+	0.86
100	SM90-100A32ZN08-Z06	○	/	32	7	50	A	6	+	1.77
100	SM90-100A32ZN08-Z08	○	/	32	7	50	A	8	+	1.73
100	SM90-100A32ZN08-Z11	○	/	32	7	50	A	11	+	1.70
125	SM90-125B40ZN08-Z07	○	/	40	7	63	B	7		2.71
125	SM90-125B40ZN08-Z11	○	/	40	7	63	B	11		2.66
125	SM90-125B40ZN08-Z13	○	/	40	7	63	B	13		2.60
160	SM90-160C40ZN08-Z08	○	/	40	7	63	C	8		5.00
160	SM90-160C40ZN08-Z12	○	/	40	7	63	C	12		5.00
200	SM90-200C60ZN08-Z14	○	/	60	7	63	C	14		6.70
250	SM90-250C60ZN08-Z16	○	/	60	7	63	C	16		8.50

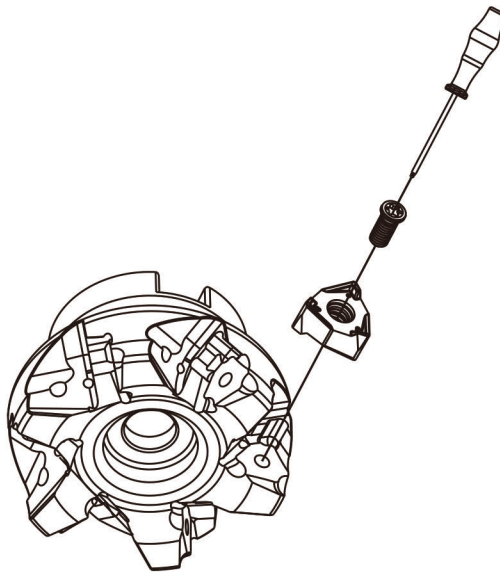
● 常备库存 ○ 按订单生产

方肩铣刀SM90-ZN刀片
Square shoulder mill SM90-ZN insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)					牌号 Grade									
		IC	s	d1	r	bs	PM9125	PM9035	PM9125	PM9035	PM9125	PM9035	PM5010	PM9125		
	ZNMX080608R-M	14.02	6.65	4.7	0.8	1.3	★	☆	★		☆	★	★	☆	★	☆
	ZNGX080608FR-BM	14.02	6.65	4.7	0.8	1.3	★	☆	★		☆	★	★	☆	★	☆

首选 ★ 备选 ☆



配件/SPARE PARTS

刀片尺寸 Insert size	刀具直径 Diameter	刀片夹紧螺钉 Clamping srew	刀片螺钉扳手 Screw Wrench
08	40-250	S01-040120	D01-115

仿形铣刀PM00-RP Profile mill PM00-RP

加工精度和多用途性
面铣, 旋插补铣镗孔, 仿形铣

刀片槽型
MV槽型: 精磨刀片, 轻型加工, 高精度高表面质量要求首选

Precision and versatility
face milling, helical interpolation, profiling

MV geometry: fine grinding insert, first choice for light cutting,
high precision and surface finish request



直径范围: 20-50mm
Diameter range: 20-50mm



直径范围: 40-160mm
Diameter range: 40-160mm



面铣
Face milling

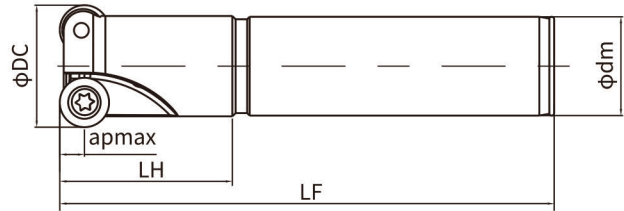


仿形铣
Profile milling



螺旋差补铣
Helical interpolation

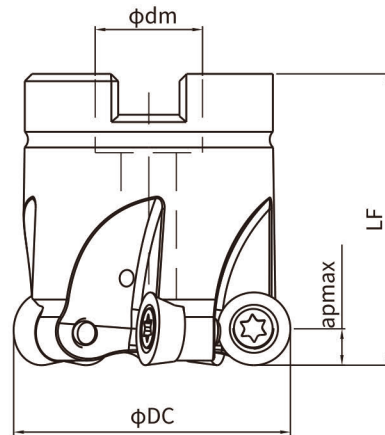
仿形铣刀PM00-RP
Profile mill PM00-RP



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions					接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF	LH				
20	PM00-020R20RP08-Z02	●	/	20	4	120	35	R	2	+	0.20
25	PM00-025R20RP08-Z03	○	/	20	4	120	35	R	3	+	0.30
32	PM00-032R25RP08-Z04	○	/	25	4	120	35	R	4	+	0.35
25	PM00-025R20RP10-Z02	●	/	20	5	100	35	R	2	+	0.20
32	PM00-032R25RP10-Z02	●	/	25	5	120	40	R	2	+	0.50
40	PM00-040R32RP10-Z03	○	/	32	5	120	40	R	3	+	0.70
50	PM00-050R32RP10-Z03	○	/	32	5	120	40	R	3	+	0.80
32	PM00-032R25RP12-Z02	○	/	25	6	135	40	R	2	+	0.90
40	PM00-040R32RP12-Z02	○	/	32	6	150	40	R	2	+	1.00
50	PM00-050R32RP12-Z03	○	/	32	6	150	40	R	3	+	1.10

● 常备库存 ○ 按订单生产

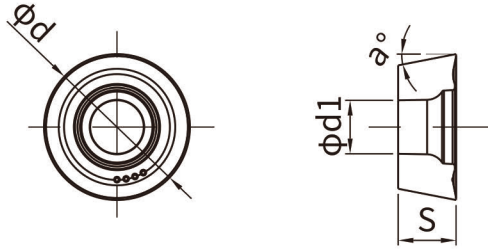
仿形铣刀PM00-RP
Profile mill PM00-RP



直径 Dc	型 号	库存状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	apmax	LF				
40	PM00-040A16RP08-Z05	○	/	16	4	40	A	5	+	0.44
50	PM00-050A22RP08-Z05	○	/	22	4	40	A	5	+	0.87
63	PM00-063A22RP08-Z06	○	/	22	4	40	A	6	+	0.60
80	PM00-080A27RP08-Z07	○	/	27	4	50	B	7	+	1.40
100	PM00-100A32RP08-Z08	○	/	32	4	50	B	8	+	1.90
125	PM00-125B40RP08-Z10	○	/	40	4	63	B	10	+	3.20
160	PM00-160C40RP08-Z12	○	/	40	4	63	C	12	+	5.90
40	PM00-040A16RP10-Z05	○	/	16	5	40	A	5	+	0.44
50	PM00-050A22RP10-Z05	●	/	22	5	40	A	5	+	0.87
63	PM00-063A22RP10-Z06	●	/	22	5	40	A	6	+	0.60
80	PM00-080B27RP10-Z07	●	/	27	5	50	A	7	+	1.40
100	PM00-100B32RP10-Z08	○	/	32	5	50	A	8	+	1.90
125	PM00-125B40RP10-Z10	○	/	40	5	63	B	10		3.20
160	PM00-160C40RP10-Z12	○	/	40	5	63	C	12		5.90
50	PM00-050A22RP12-Z04	○	/	22	6	45	A	4	+	0.40
63	PM00-063A22RP12-Z04	○	/	22	6	45	A	4	+	0.60
80	PM00-080A27RP12-Z05	○	/	27	6	50	A	5	+	1.10
100	PM00-100A32RP12-Z06	○	/	32	6	50	A	6	+	1.80
125	PM00-125B40RP12-Z07	○	/	40	6	63	B	7		3.70
160	PM00-160C40RP12-Z08	○	/	40	6	63	C	8		4.90

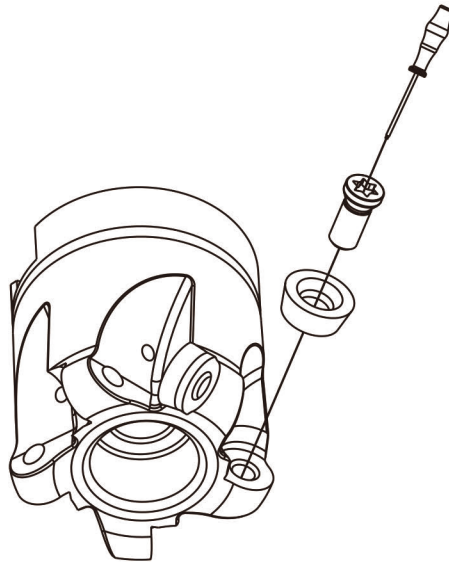
● 常备库存 ○ 按订单生产

仿形铣刀PM00-RP刀片
Profile mill PM00-RP insert



刀片外形	型号 Type	基本尺寸 Dimension (mm)				牌号 Grade									
		l	s	d1	α	PM9115	PM9035	PM9215	PM9035	PM9215	PM9035	PM9215	PM9035	PM5010	PM9215
	RPGT0803MOE-MV	8	3.18	3.4	11°	★	☆	★		☆	★	★	☆	★	☆
	RPGT10T3MOE-MV	10	3.97	4.4	11°	★	☆	★		☆	★	★	☆	★	☆
	RPGT1204MOE-MV	12	4.76	4.4	11°	★	☆	★		☆	★	★	☆	★	☆

首选 ★ 备选 ☆



配件/SPARE PARTS

安装形式	刀具直径 Diameter	刀片夹紧螺钉 Clamping screw	刀片螺钉扳手 Screw Wrench
8	12-160	S01-030085	D01-109
10	25-160	S01-040110	D01-115
12	32-160	S01-040110	D01-115

三面刃铣刀SF90-MN

Full side and face mill SF90-MN

加工精度和多用途性
 多用途槽铣刀
 槽铣、背铣、切断、面铣、螺旋插补铣镗孔

刀片槽型
 E-WL 槽型：精磨刀片，轻型加工，高表面质量要求首选
 E-WM 槽型：精磨刀片，通用槽型

Precision and versatility
 Multi-purpose side and face mill
 Slot milling, back face milling, parting, face milling, helical interpolation boring

E-WL geometry: fine grinding insert, first choice for light cutting, high precision and surface finish request
 E-WM geometry: fine grinding insert, general purpose geometry



直径范围：80-315mm
 Diameter range: 80-315mm



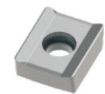
直径范围：80-315mm
 Diameter range: 80-315mm



直径范围：80-100mm
 Diameter range: 80-100mm



E-WL槽型
 E-WL Geometry



E-WM槽型
 E-WM Geometry



面铣
 Face milling



背铣
 Back face milling



螺旋差补铣
 Helical interpolation



槽铣
 Slot milling



切断
 Parting

刀片进给切削参数推荐

Feed recommendations

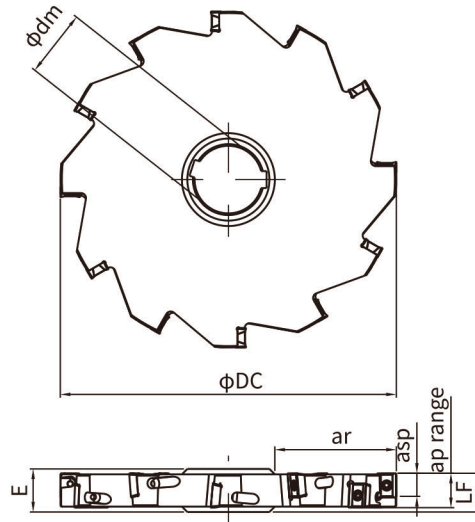
刀片尺寸 Insert size	刀片槽形 Geometry	推荐每齿进给(mm) Rec. Fz	最小每齿进给(mm) Min. Fz	最大每齿进给(mm) Max. Fz
05	WL	0.05	0.02	0.15
08\11\14	WL	0.06	0.03	0.15
05	WM	0.07	0.04	0.18
08\11\14	WM	0.09	0.05	0.20

固定槽式三面刃铣刀SF90

Full side and face mill with fixed pockets SF90



直径范围: 80-315mm
槽宽范围: 7.9-26.5mm
带键槽的孔
Diameter range: 80-315mm
Slot width range: 7.9-26.5mm
Bore with keyway



直径 Dc	订货号 Ordering code	库存状态	刀片尺寸 Insert size	刀片圆角范围 Insert radius range	尺寸(mm) Dimensions						接口类型	齿数(Z)	重量(kg)
					dm	槽宽范围 Ap range	E	LF(min.-max.)	ar	asp			
80	SF90-080H27-05DMXX.XX	○	05	0.2-1.54	27	7.9-10.0	16	12-13	19.5	5.6	H	6	0.30
100	SF90-100H32-05DMXX.XX	○	05	0.2-1.54	32	7.9-10.0	16	12-13	25.5	5.6	H	8	0.50
125	SF90-125H40-05DMXX.XX	○	05	0.2-1.54	40	7.9-10.0	16	12-13	34.0	5.6	H	10	0.80
160	SF90-160H40-05DMXX.XX	○	05	0.2-1.54	40	7.9-10.0	16	12-13	51.5	5.6	H	12	1.30
200	SF90-200H50-05DMXX.XX	○	05	0.2-1.54	50	7.9-10.0	16	12-13	64.5	5.6	H	16	2.10
080	SF90-080H27-08EMXX.XX	○	08	0.2-1.54	27	10.0-12.0	16	13-14	19.5	6.2	H	6	0.30
100	SF90-100H32-08EMXX.XX	○	08	0.2-1.54	32	10.0-12.0	16	13-14	25.5	6.2	H	8	0.50
125	SF90-125H40-08EMXX.XX	○	08	0.2-1.54	40	10.0-12.0	16	13-14	34.0	6.2	H	10	0.80
160	SF90-160H40-08EMXX.XX	○	08	0.2-1.54	40	10.0-12.0	16	13-14	51.5	6.2	H	12	1.30
200	SF90-200H50-08EMXX.XX	○	08	0.2-1.54	50	10.0-12.0	16	13-14	64.5	6.2	H	16	2.10
80	SF90-080H27-08FMXX.XX	○	08	0.2-1.54	27	12.0-15.0	16	14-15.5	19.5	7.6	H	6	0.40
100	SF90-100H32-08FMXX.XX	○	08	0.2-1.54	32	12.0-15.0	16	14-15.5	25.5	7.6	H	8	0.60
125	SF90-125H40-08FMXX.XX	○	08	0.2-1.54	40	12.0-15.0	16	14-15.5	34.0	7.6	H	10	0.90
160	SF90-160H40-08FMXX.XX	○	08	0.2-1.54	40	12.0-15.0	16	14-15.5	51.5	7.6	H	12	1.60
200	SF90-200H50-08FMXX.XX	○	08	0.2-1.54	50	12.0-15.0	16	14-15.5	64.5	7.6	H	16	2.50
100	SF90-100H32-11KMXX.XX	○	11	0.2-1.54	32	15.0-17.5	18.5	16.8-18	25.5	10.6	H	6	0.80
125	SF90-125H40-11KMXX.XX	○	11	0.2-1.54	40	15.0-17.5	18.5	16.8-18	34.0	10.6	H	8	1.20
160	SF90-160H40-11KMXX.XX	○	11	0.2-1.54	40	15.0-17.5	18.5	16.8-18	51.5	10.6	H	10	2.00
200	SF90-200H50-11KMXX.XX	○	11	0.2-1.54	50	15.0-17.5	18.5	16.8-18	64.5	10.6	H	12	3.20
250	SF90-250H50-11KMXX.XX	○	11	0.2-1.54	50	15.0-17.5	18.5	16.8-18	89.5	10.6	H	16	5.10
315	SF90-315H60-11KMXX.XX	○	11	0.2-1.54	60	15.0-17.5	18.5	16.8-18	114.5	10.6	H	20	8.10
125	SF90-125H40-11LMXX.XX	○	11	0.2-1.54	40	17.5-20.5	21.5	19.5-21	34.0	10.6	H	8	1.40
160	SF90-160H40-11LMXX.XX	○	11	0.2-1.54	40	17.5-20.5	21.5	19.5-21	51.5	10.6	H	10	2.40
200	SF90-200H50-11LMXX.XX	○	11	0.2-1.54	50	17.5-20.5	21.5	19.5-21	64.5	10.6	H	12	3.70
250	SF90-250H50-11LMXX.XX	○	11	0.2-1.54	50	17.5-20.5	21.5	19.5-21	89.5	10.6	H	16	6.00
315	SF90-315H60-11LMXX.XX	○	11	0.2-1.54	60	17.5-20.5	21.5	19.5-21	114.5	10.6	H	20	9.50
160	SF90-160H40-11QMXX.XX	○	14	0.2-1.54	40	20.5-23.5	24.5	22.5-24	51.5	13.6	H	10	2.80
200	SF90-200H50-11QMXX.XX	○	14	0.2-1.54	50	20.5-23.5	24.5	22.5-24	64.5	13.6	H	12	4.40
250	SF90-250H50-11QMXX.XX	○	14	0.2-1.54	50	20.5-23.5	24.5	22.5-24	89.5	13.6	H	16	7.10
315	SF90-315H60-11QMXX.XX	○	14	0.2-1.54	60	20.5-23.5	24.5	22.5-24	114.5	13.6	H	20	11.30
160	SF90-160H40-11RMXX.XX	○	14	0.2-1.54	40	23.5-26.5	27.5	25.5-27	51.5	13.6	H	10	3.30
200	SF90-200H50-11RMXX.XX	○	14	0.2-1.54	50	23.5-26.5	27.5	25.5-27	64.5	13.6	H	12	4.30
250	SF90-250H50-11RMXX.XX	○	14	0.2-1.54	50	23.5-26.5	27.5	25.5-27	89.5	13.6	H	16	8.20
315	SF90-315H60-11RMXX.XX	○	14	0.2-1.54	60	23.5-26.5	27.5	25.5-27	114.5	13.6	H	20	13.10

订购刀盘时, 需注明槽宽 (XX.XX)

When ordering mill, state slot width(XX.XX)in the ordering code

订货示例Ordering example:SF90-125H40-08EM10.00

● 常备库存 ○按订单生产 订购刀片圆角r大于1.54的刀片时, 需注明圆角r要求 (rX.XX)。

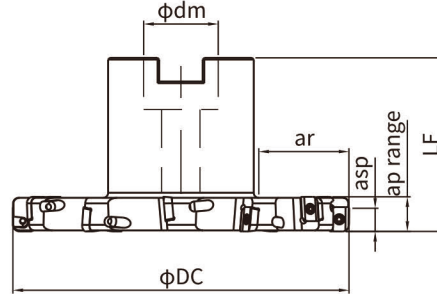
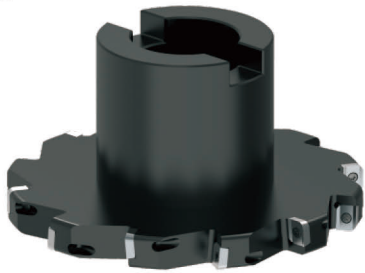
When ordering insert radius bigger than 1.54, state radius(rX.XX)in the ordering code

订货示例Ordering example:SF90-125H40-08EM10.00r3.00

固定槽式三面刃铣刀MR1231

Full side and face mill with fixed pockets MR1231

直径范围: 80-315mm
 槽宽范围: 7.9-26.5mm
 心轴式
 Diameter range: 80-315mm
 Slot width range: 7.9-26.5mm
 Arbor



直径 Dc	订货号 Ordering code	库存状态	刀片尺寸 Insert size	刀片圆角范围 Insert radius range	尺寸(mm) Dimensions						接口类型	齿数(Z)	重量(kg)
					dm	槽宽范围 Ap range	E	LF (min.-max.)	ar	asp			
80	SF90-080A27-05DMXX.XX	○	05	0.2-1.54	27	7.9-10.0	63-64	A	20	5.6	A	6	0.80
100	SF90-100A27-05DMXX.XX	○	05	0.2-1.54	27	7.9-10.0	63-64	A	22	5.6	A	8	1.20
125	SF90-125B32-05DMXX.XX	○	05	0.2-1.54	32	7.9-10.0	63-64	B	29.5	5.6	B	10	1.80
160	SF90-160B40-05DMXX.XX	○	05	0.2-1.54	40	7.9-10.0	63-64	B	41	5.6	B	12	2.60
200	SF90-200C40-05DMXX.XX	○	05	0.2-1.54	40	7.9-10.0	63-64	C	51.0	5.6	C	16	7.00
080	SF90-080A27-08EMXX.XX	○	08	0.2-1.54	27	10.0-12.0	63-64	A	20.0	6.2	A	6	1.10
100	SF90-100A27-08EMXX.XX	○	08	0.2-1.54	27	10.0-12.0	63-64	A	22.0	6.2	A	8	1.70
125	SF90-125B32-08EMXX.XX	○	08	0.2-1.54	32	10.0-12.0	63-64	B	29.5	6.2	B	10	1.80
160	SF90-160B40-08EMXX.XX	○	08	0.2-1.54	40	10.0-12.0	63-64	B	41.0	6.2	B	12	2.60
200	SF90-200C40-08EMXX.XX	○	08	0.2-1.54	40	10.0-12.0	63-64	C	51.0	6.2	C	16	4.30
80	SF90-080A27-08FMXX.XX	○	08	0.2-1.54	27	12.0-15.0	63-64.5	A	20.0	7.6	A	6	1.20
100	SF90-100A27-08FMXX.XX	○	08	0.2-1.54	27	12.0-15.0	63-64.5	A	22.0	7.6	A	8	1.80
125	SF90-125B32-08FMXX.XX	○	08	0.2-1.54	32	12.0-15.0	63-64.5	B	29.5	7.6	B	10	2.00
160	SF90-160B40-08FMXX.XX	○	08	0.2-1.54	40	12.0-15.0	63-64.5	B	41.0	7.6	B	12	3.00
200	SF90-200C40-08FMXX.XX	○	08	0.2-1.54	40	12.0-15.0	63-64.5	C	51.0	7.6	C	16	7.60
100	SF90-100A27-11KMXX.XX	○	11	0.2-1.54	27	15.0-17.5	63-64.25	A	25.7	10.6	A	6	1.70
125	SF90-125B32-11KMXX.XX	○	11	0.2-1.54	32	15.0-17.5	63-64.25	B	29.5	10.6	B	8	2.30
160	SF90-160B40-11KMXX.XX	○	11	0.2-1.54	40	15.0-17.5	63-64.25	B	41.0	10.6	B	10	3.30
200	SF90-200C40-11KMXX.XX	○	11	0.2-1.54	40	15.0-17.5	63-64.25	C	51.0	10.6	C	12	8.00
250	SF90-250C60-11KMXX.XX	○	11	0.2-1.54	60	15.0-17.5	63-64.25	C	56.0	10.6	C	16	9.50
315	SF90-315C60-11KMXX.XX	○	11	0.2-1.54	60	15.0-17.5	63-64.25	C	88.5	10.6	C	20	16.70
125	SF90-125B32-11LMXX.XX	○	11	0.2-1.54	32	17.5-20.5	63-64.5	B	29.5	10.6	B	8	2.50
160	SF90-160B40-11LMXX.XX	○	11	0.2-1.54	40	17.5-20.5	63-64.5	B	41.0	10.6	B	10	3.70
200	SF90-200C40-11LMXX.XX	○	11	0.2-1.54	40	17.5-20.5	63-64.5	C	51.0	10.6	C	12	5.90
250	SF90-250C60-11LMXX.XX	○	11	0.2-1.54	60	17.5-20.5	63-64.5	C	56.0	10.6	C	16	10.00
315	SF90-315C60-11LMXX.XX	○	11	0.2-1.54	60	17.5-20.5	63-64.5	C	88.5	10.6	C	20	13.60
160	SF90-160B40-11QMXX.XX	○	14	0.2-1.54	40	20.5-23.5	63-64.5	B	41.0	13.6	B	10	3.60
200	SF90-200C40-11QMXX.XX	○	14	0.2-1.54	40	20.5-23.5	63-64.5	C	51.0	13.6	C	12	8.80
250	SF90-250C60-11QMXX.XX	○	14	0.2-1.54	60	20.5-23.5	63-64.5	C	56.0	13.6	C	16	13.30
315	SF90-315C60-11QMXX.XX	○	14	0.2-1.54	60	20.5-23.5	63-64.5	C	88.5	13.6	C	20	19.20
160	SF90-160B40-11RMXX.XX	○	14	0.2-1.54	40	23.5-26.5	63-64.5	B	41.0	13.6	B	10	4.50
200	SF90-200C40-11RMXX.XX	○	14	0.2-1.54	40	23.5-26.5	63-64.5	C	51.0	13.6	C	12	9.20
250	SF90-250C60-11RMXX.XX	○	14	0.2-1.54	60	23.5-26.5	63-64.5	C	56.0	13.6	C	16	13.90
315	SF90-315C60-11RMXX.XX	○	14	0.2-1.54	60	23.5-26.5	63-64.5	C	88.5	13.6	C	20	20.40

订购刀盘时, 需注明槽宽 (XX.XX)

When ordering mill, state slot width(XX.XX)in the ordering code

订货示例Ordering example:SF90-125B32-08EM10.00

订购刀片圆角r大于1.54的刀片时, 需注明圆角r要求 (rX.XX)。

When ordering insert radius bigger than 1.54, state radius(rX.XX)in the ordering code

订货示例Ordering example:SF90-125B32-08EM10.00r3.00

固定槽式三面刃铣刀MR1231

Full side and face mill with fixed pockets MR1231

直径范围: 80-100mm

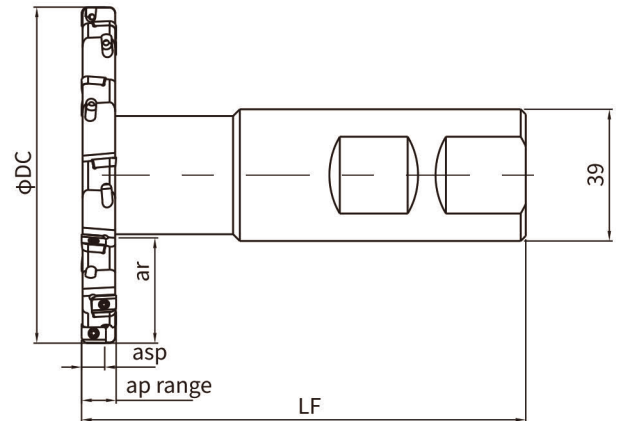
槽宽范围: 7.9-12mm

侧压式

Diameter range: 80-100mm

Slot width range: 7.9-12mm

Weldon



直径 Dc	订货号 Ordering code	库存状态	刀片尺寸 Insert size	刀片圆角范围 Insert radius range	尺寸(mm) Dimensions						接口类型	齿数(Z)	重量(kg)
					dm	槽宽范围 Ap range	E	LF (min.-max.)	ar	asp			
80	SF90-080E32-05DMXX.XX	○	05	0.2-1.54	32	7.9-10.0	63-64	132	23	6.2	B	6	1.00
100	SF90-100E40-05DMXX.XX	○	05	0.2-1.54	40	7.9-10.0	63-64	152	28	6.2	B	8	1.90
080	SF90-080E32-08EMXX.XX	○	08	0.2-1.54	32	10.0-12.0	63-64	132	23	6.2	B	6	1.00
100	SF90-100E40-08EMXX.XX	○	08	0.2-1.54	40	10.0-12.0	63-64	152	28	6.2	B	8	1.90

订购刀盘时, 需注明槽宽 (XX.XX)

When ordering mill, state slot width(XX.XX)in the ordering code

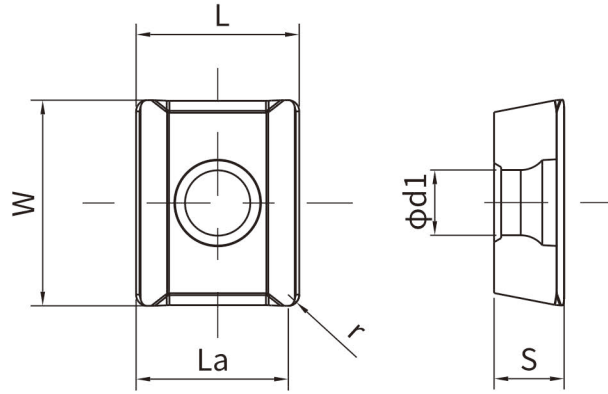
订货示例Ordering example:MR1231-100E40-08EM10.00

订购刀片圆角r大于1.54的刀片时, 需注明圆角r要求 (rX.XX)。

When ordering insert radius bigger than 1.54, state radius(rX.XX)in the ordering code

订货示例Ordering example:MR1231-100E40-08EM10.00r3.00

三面刃铣刀刀片
Full side and face mill insert



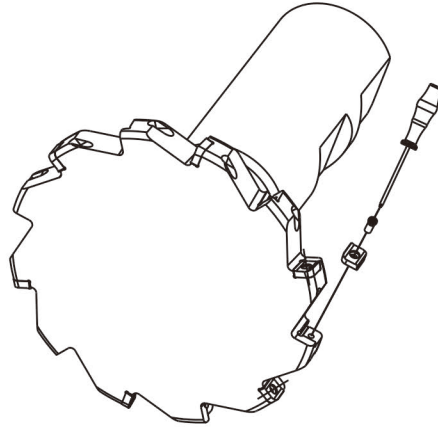
刀片尺寸	型号 Type	基本尺寸 Dimension (mm)						牌号 Grade									
		l	la	W	S	d1	r	PM9215	PM9035	PM9215	PM9035	PM9215	PM9035	PM9215	PM9035	PM5010	PM9215
08	MN084504E-L	8.5	8.1	9.5	4.45	2.9	0.4	★	★	★	☆	☆	★	★	☆	★	☆
	MN084508E-L	8.5	7.7	9.5	4.45	2.9	0.8	★	★	★	☆	☆	★	★	☆	★	☆
	MR084515E-L	8.5	-	9.5	4.45	2.9	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR084515E-L	8.5	-	9.5	4.45	2.9	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR084523E-L	8.5	-	9.5	4.45	2.9	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR084523E-L	8.5	-	9.5	4.45	2.9	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR084530E-L	8.5	-	9.5	4.45	2.9	3.05	★	★	★	☆	☆	★	★	☆	★	☆
MR084530E-L	8.5	-	9.5	4.45	2.9	3.05	★	★	★	☆	☆	★	★	☆	★	☆	

首选 ★ 备选 ☆

刀片尺寸	型号 Type	基本尺寸 Dimension (mm)						牌号 Grade									
		l	la	W	S	d1	r	PM9215	PM9035	PM9215	PM9035	PM9215	PM9035	PM9215	PM9035	PM5010	PM9215
05	MN054508E-M	6.5	5.7	9.5	4.45	2.9	0.8	★	★	★	☆	☆	★	★	☆	★	☆
	MR054515E-M	6.5	-	9.5	4.45	2.9	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR054515E-M	6.5	-	9.5	4.45	2.9	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR054523E-M	6.5	-	9.5	4.45	2.9	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR054523E-M	6.5	-	9.5	4.45	2.9	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR054530E-M	6.5	-	9.5	4.45	2.9	3.05	★	★	★	☆	☆	★	★	☆	★	☆
	MR054530E-M	6.5	-	9.5	4.45	2.9	3.05	★	★	★	☆	☆	★	★	☆	★	☆
08	MN084504E-M	8.5	8.1	9.5	4.45	2.9	0.4	★	★	★	☆	☆	★	★	☆	★	☆
	MN084508E-M	8.5	7.7	9.5	4.45	2.9	0.8	★	★	★	☆	☆	★	★	☆	★	☆
	MR084515E-M	8.5	-	9.5	4.45	2.9	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR084515E-M	8.5	-	9.5	4.45	2.9	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR084523E-M	8.5	-	9.5	4.45	2.9	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR084523E-M	8.5	-	9.5	4.45	2.9	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR084530E-M	8.5	-	9.5	4.45	2.9	3.05	★	★	★	☆	☆	★	★	☆	★	☆
MR084530E-M	8.5	-	9.5	4.45	2.9	3.05	★	★	★	☆	☆	★	★	☆	★	☆	
11	MN115008E-M	11.5	10.7	11.5	4.95	4.6	0.8	★	★	★	☆	☆	★	★	☆	★	☆
	MR115023E-M	11.5	-	11.5	4.95	4.6	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR115023E-M	11.5	-	11.5	4.95	4.6	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR115030E-M	11.5	-	11.5	4.95	4.6	3.05	★	★	★	☆	☆	★	★	☆	★	☆
	MR115030E-M	11.5	-	11.5	4.95	4.6	3.05	★	★	★	☆	☆	★	★	☆	★	☆
	MR115048E-M	11.5	-	11.5	4.95	4.6	4.83	★	★	★	☆	☆	★	★	☆	★	☆
	MR115048E-M	11.5	-	11.5	4.95	4.6	4.83	★	★	★	☆	☆	★	★	☆	★	☆
	MR115063E-M	11.5	-	11.5	4.95	4.6	6.35	★	★	★	☆	☆	★	★	☆	★	☆
MR115063E-M	11.5	-	11.5	4.95	4.6	6.35	★	★	★	☆	☆	★	★	☆	★	☆	
14	MN145008E-M	14.5	13.7	11.5	4.95	4.6	0.8	★	★	★	☆	☆	★	★	☆	★	☆
	MR145015E-M	14.5	-	11.5	4.95	4.6	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR145015E-M	14.5	-	11.5	4.95	4.6	1.52	★	★	★	☆	☆	★	★	☆	★	☆
	MR145023E-M	14.5	-	11.5	4.95	4.6	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR145023E-M	14.5	-	11.5	4.95	4.6	2.29	★	★	★	☆	☆	★	★	☆	★	☆
	MR145030E-M	14.5	-	11.5	4.95	4.6	3.05	★	★	★	☆	☆	★	★	☆	★	☆
	MR145030E-M	14.5	-	11.5	4.95	4.6	3.05	★	★	★	☆	☆	★	★	☆	★	☆
	MR145048E-M	14.5	-	11.5	4.95	4.6	4.83	★	★	★	☆	☆	★	★	☆	★	☆
	MR145048E-M	14.5	-	11.5	4.95	4.6	4.83	★	★	★	☆	☆	★	★	☆	★	☆
	MR145063E-M	14.5	-	11.5	4.95	4.6	6.35	★	★	★	☆	☆	★	★	☆	★	☆
MR145063E-M	14.5	-	11.5	4.95	4.6	6.35	★	★	★	☆	☆	★	★	☆	★	☆	

首选 ★ 备选 ☆

配件/SPARE PARTS

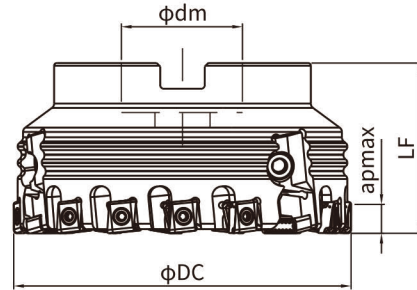


刀片尺寸 Insert size	刀具直径 Diameter DC	刀片夹紧螺钉 Clamping srew	刀片螺钉扳手 Screw wrench
05	80-200	S01-025087	D01-107
08	80-200	S01-030085	D01-108
11	100-315	S01-040110	D01-115
14	160-315	S01-040110	D01-115

可调式精铣面铣刀

FF90-AN&LN Adjustable finish mill FF90-AN&LN

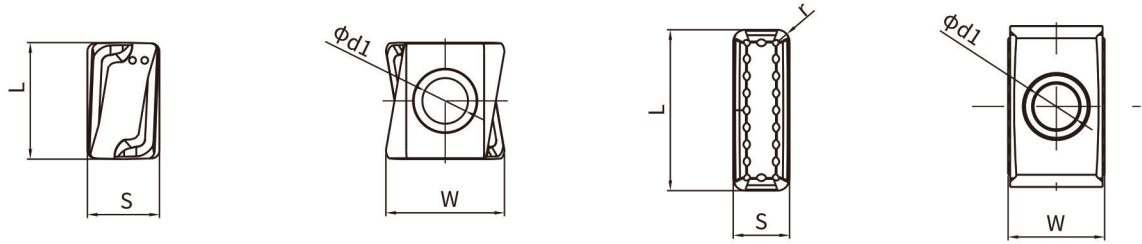
不等齿距设计
Uneven pitch



直径 Dc	型 号	库存 状态	尺寸(mm) Dimensions				接口类型	齿数(Z)	内冷状态	重量(kg)
			Dc2	dm	a _{pmax}	LF				
100	FF90-100A32AN11_LN15-Z09	○	/	32	8	63	A	9+2		3.20
125	FF90-125B40AN11_LN15-Z13	○	/	40	8	63	B	13+3		4.60
160	FF90-160C40AN11_LN15-Z17	○	/	40	8	63	C	17+3		8.40
200	FF90-200C60AN11_LN15-Z23	○	/	60	8	63	C	23+3		9.80
250	FF90-250C60AN11_LN15-Z29	○	/	60	8	63	C	29+3		14.70

● 常备库存 ○ 按订单生产

可调式精铣面铣刀FF90-AN&LN
Adjustable finish mill FF90-AN&LN



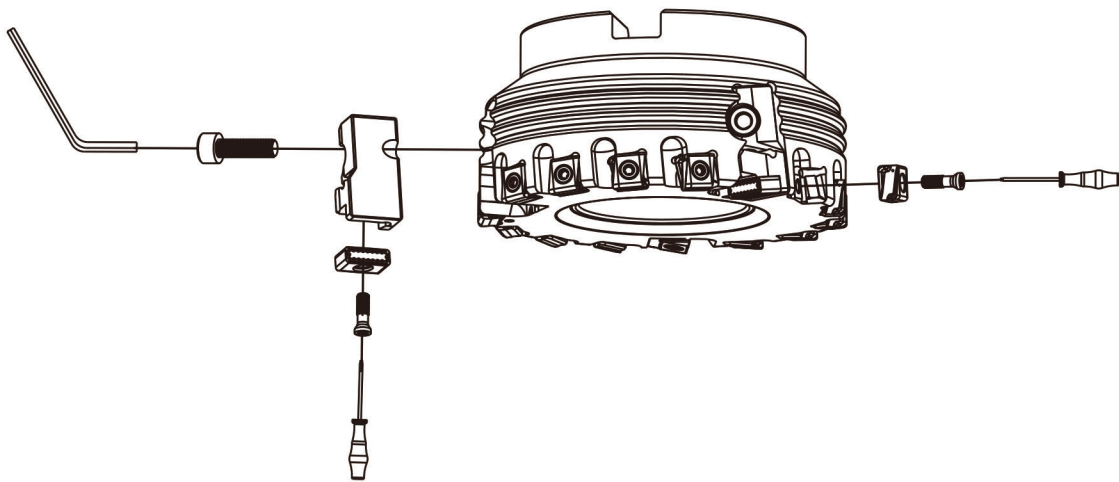
ANGX110708-PM

LNHQ150512AN-W

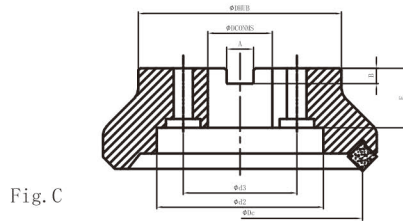
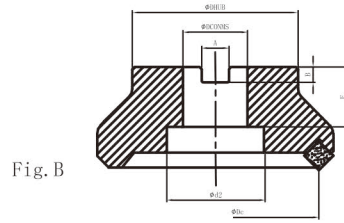
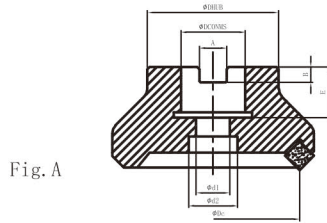
刀片外形	型号 Type	基本尺寸 Dimension (mm)						牌号 Grade				
		l	w	s	d1	r	α	PP9215	PM9025	PP9215	PM9025	
	ANGX110708-PM	11.5	11.76	7.11	4.5	0.8	0	★	☆	☆	★	
	LNHQ150512E-W	15.875	9.525	5.56	4.5	1.2	0	★	☆	☆	★	

首选 ★ 备选 ☆

配件/SPARE PARTS



安装形式	刀具直径 Diameter	刀片夹紧螺钉 Clamping screw	刀片螺钉扳手 Screw Wrench	修光刀座	修光刀片调整螺钉型号	修光刀座锁紧螺钉型号	调整螺钉扳手型号	锁紧螺钉扳手型号
AN11	100-250	S01-040120	D01-115	FF90-CA2036-LN15	S06-050100F	S03-060250	L02-0025	L02-0005
LN15	100-250	S01-040120	D01-115					



Dimension(mm)										Fig.	Arbor
DC	DCONMS	A	B	E	DHUB		d1	d2	d3		
					For mold&die	For general					
32	16	8.4	5.6	20	30	-	-	-	-	E	
32	16	8.4	5.6	20	30	-	9	13.5	-	A	
40	16	8.4	5.6	20	38	-	9	13.5	-	A	
40	22	10.4	6.3	22	38	-	11	17	-	A	
50	22	10.4	6.3	22	40	45	11	17	-	A	
63	22	10.4	6.3	22	47	-	11	17	-	A	
80	25.4	9.526	6	26	-	70	13	20	-	A	
80	27	12.4	7	28	58	70	13	22	-	A	
100	31.75	12.7	8	32	-	80	18	26	-	A	
100	31.75	12.7	8	32	-	80	-	46	-	B	
100	32	14.4	8	26	66	85	18	26	-	A	
100	32	14.4	8	26	66	85	-	46	-	B	
125	38.1	15.875	10	38	80	-	-	56	-	B	
125	40	16.4	9	32	85	-	22	32	-	A	
125	40	16.4	9	32	85	-	-	56	-	B	
160	40	16.4	9	32	110	-	-	90	66.7	C	
160	50.8	19.05	11	38	100	-	-	72	-	B	
200	47.625	25.4	14	38	130	-	-	132	101.6	C	
200	60	25.7	14	40	130	-	-	132	101.6	C	
250	47.625	25.4	14	38	160	-	-	150	101.6	C	
250	60	25.7	14	40	160	-	-	150	101.6	C	
315	60	25.7	14	40	225	-	-	225	-	C	