

INDEXABLE INSERT SHOULDER MILLING CUTTER

可转位铣刀



可转位立铣刀 Indexable Insert Shoulder Milling Cutter

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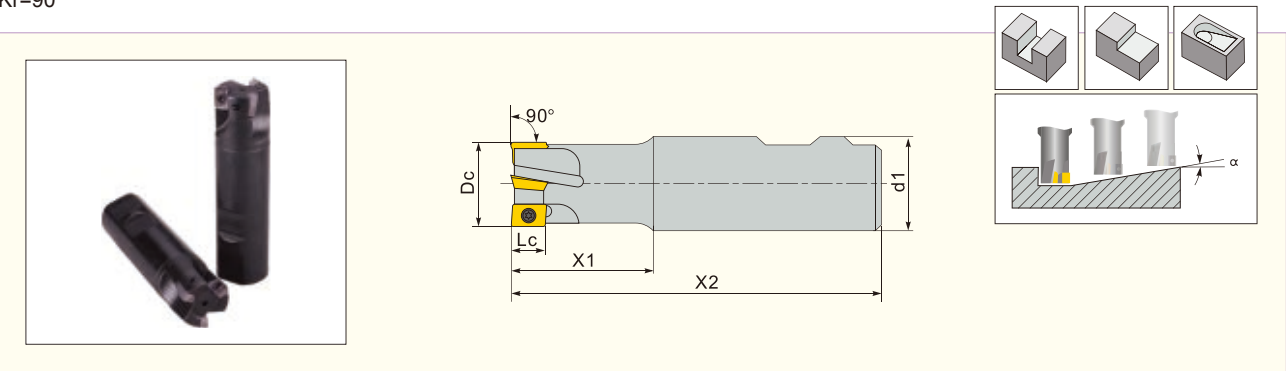
可转位面铣刀 Indexable Insert Face Milling Cutter

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INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

ME90AP..1135..

Kr=90°



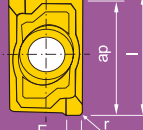
规格型号 Designation	Dc	d1	X1	X2	Lc	齿数 z	α°	Kg	刀片型号 Insert	在库 Stock
ME90AP D016.C16.Z02.11.90	16	C16	26	90	9.52	2	15	0.13	AP..1135..	●
ME90AP D016.W16.Z02.11.85	16	W16	26	85	9.52	2	15	0.13	AP..1135..	●
ME90AP D020.C20.Z02.11.110	20	C20	30	110	9.52	2	7.5	0.25	AP..1135..	●
ME90AP D020.W20.Z02.11.90	20	W20	30	90	9.52	2	7.5	0.22	AP..1135..	●
ME90AP D025.C25.Z03.11.120	25	C25	35	120	9.52	3	11.5	0.46	AP..1135..	●
ME90AP D025.W25.Z03.11.95	25	W25	35	95	9.52	3	11.5	0.4	AP..1135..	●
ME90AP D032.C32.Z04.11.130	32	C32	40	130	9.52	4	10	0.75	AP..1135..	●
ME90AP D032.W32.Z04.11.110	32	W32	40	110	9.52	4	10	0.62	AP..1135..	●
ME90AP D040.C40.Z04.11.150	40	C40	45	150	9.52	4	10	0.86	AP..1135..	●
ME90AP D040.W40.Z04.11.130	40	W40	45	130	9.52	4	10	0.75	AP..1135..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D016.C16.Z02.11.90。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC ME90AP D016.C16.Z02.11 .90

备件

Spare Parts

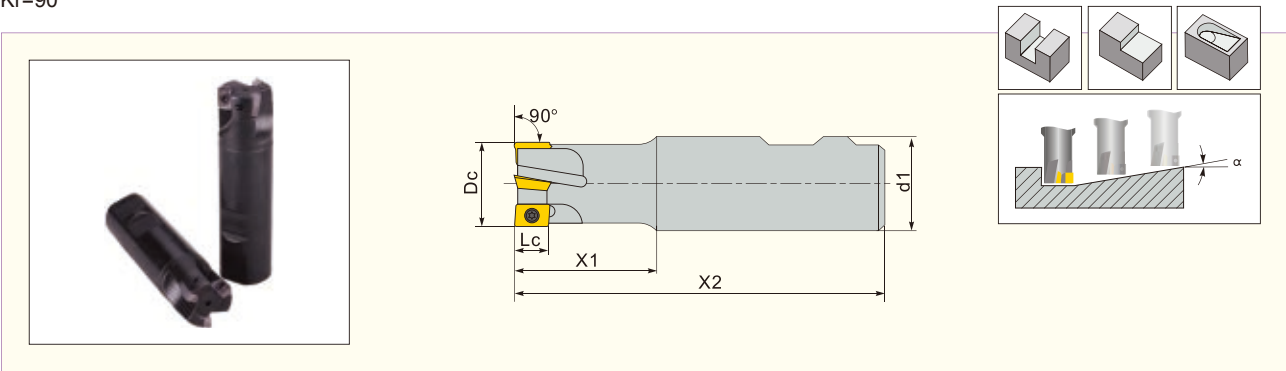
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AP..1135..	SR20 M2.5x6	KEY02 T8

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter	
		r	F	l		P	M	K	N	S	H	ap(mm)
	APMT 113508TR-M8P 2235	0.8	1.2	11.1	中型 Medium duty	●	●	●			2.0-8.0	0.08-0.15
	APMT 113504TR-M9N 2020	0.4	1.2	11.3	中型 Medium duty				●		2.0-8.0	0.10-0.30

INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

ME90AP..1604..

Kr=90°



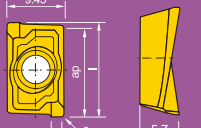
规格型号 Designation	Dc	d1	X1	X2	Lc	齿数 z	α°	Kg	刀片型号 Insert	在库 Stock
ME90AP D025.C25.Z02.16.120	25	C25	26	120	10.2	2	11.5	0.46	AP..1604..	●
ME90AP D025.W25.Z02.16.95	25	W25	26	95	10.2	2	11.5	0.4	AP..1604..	●
ME90AP D032.C32.Z03.16.130	32	C32	30	130	10.2	3	10	0.42	AP..1604..	●
ME90AP D032.W32.Z03.16.110	32	W32	30	110	10.2	3	10	0.62	AP..1604..	●
ME90AP D040.C40.Z03.16.150	40	C40	45	150	10.2	3	10	0.86	AP..1604..	●
ME90AP D040.W40.Z03.16.130	40	W40	45	130	10.2	3	10	0.75	AP..1604..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D025.C25.Z02.16.120
- Insert should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC ME90AP D025.C25.Z02.16.120

备件

Spare Parts

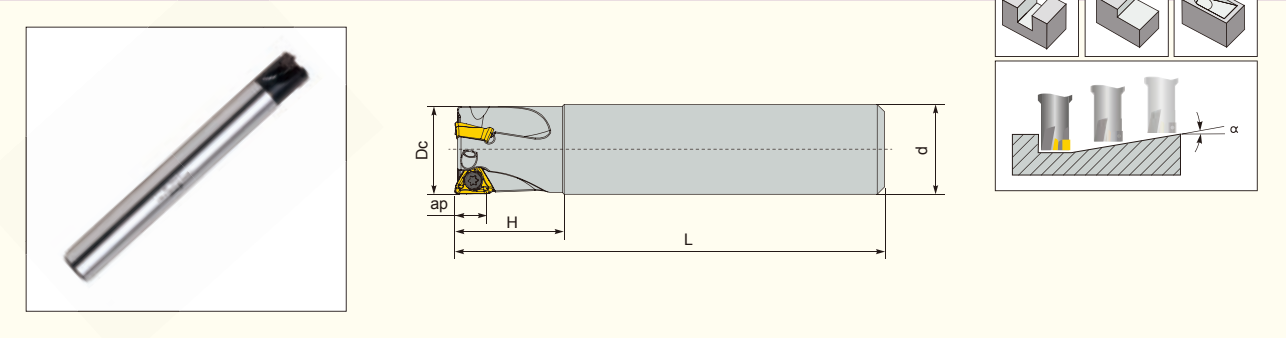
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AP..1604..	SR20 M4x9.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter	
		r	F	l		P	M	K	N	S	H	ap(mm)
	APKT 1604TR-R4P 2235	0.8	1.8	17.3	重型 Heavy duty	●	●	●			6.0-14.0	0.10-0.20
	APKT 1604PDER-R5N 2020	0.8	1.7	17.92	中型 Medium duty				●		6.0-14.0	0.15-0.25

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

ME90TP..1003..

Kr=90°



规格型号 Designation	Dc	ap	Z	L	H	d	α	Kg	刀片型号 Insert	在庫 Stock
ME90TP D25.C25.Z03.10.120.C	25	8	3	120	25	25	2.9	0.382	TP..1003..	●
ME90TP D25.C25.Z03.10.200.C	25	8	3	200	40	25	2.9	0.653	TP..1003..	●
ME90TP D32.C32.Z04.10.130.C	32	8	4	130	30	32	2.1	0.703	TP..1003..	●
ME90TP D32.C32.Z04.10.200.C	32	8	4	200	40	32	2.1	1.1	TP..1003..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：☞ C41 页。
- 订货示例：1 件 ME90TP D25.C25.Z03.10.120.C。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC ME90TP D25.C25.Z03.10.120.C.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
TP..1003..	SR20 M3.5x6.5	KEY02 T10

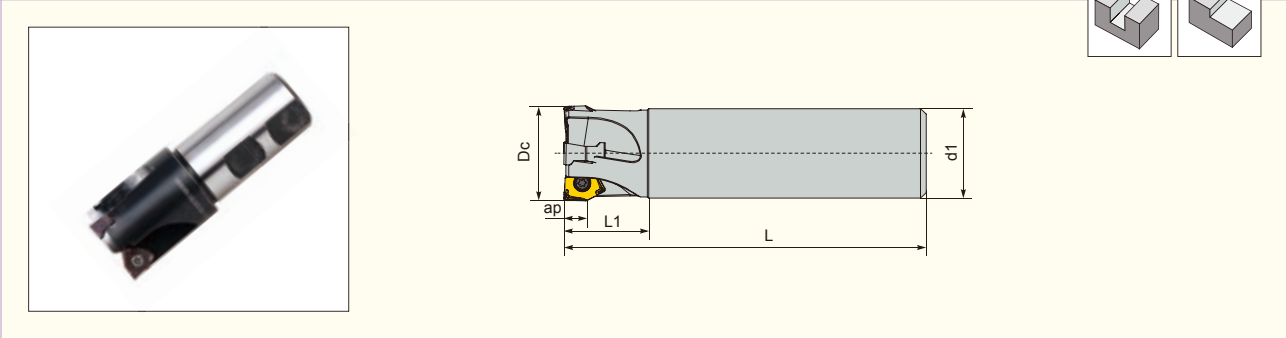
图例 Diagram	刀片型号 Insert	尺寸 Size						适配加工材质 Material						切削参数推荐 Cutting parameter		
		l	di	S	r	F		P	M	K	N	S	H	ap(mm)	fz(mm/z)	
		10.9	7.5	3.85	0.8	0.7	●	●						1.2-8.00	0.08-0.15	
	TPKT 1003PDR-R3K 2130	10.9	7.5	3.85	0.8	0.7			●					1.2-8.00	0.08-0.15	

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

ME90WN..0403..

Kr=90°



规格型号 Designation	Dc	ap	d1	L	L1	Z	内冷	刀片型号 Insert	在庫 Stock
ME90WN D020.C20.Z03.04.150	20	4	20	150	30	3	Y	WN..0403..	●
ME90WN D025.C25.Z04.04.170	25	4	25	170	30	4	Y	WN..0403..	●
ME90WN D032.C32.Z05.04.195	32	4	32	195	30	5	Y	WN..0403..	●
ME90WN D035.C32.Z05.04.195	35	4	32	195	30	5	Y	WN..0403..	●
ME90WN D040.C32.Z06.04.195	40	4	32	195	30	6	Y	WN..0403..	●
ME90WN D040.C32.Z03.08.160	40	7.5	32	160	60	3	N	WN..0807..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：☞ C31 页。
- 订货示例：1 件 ME90WN D020.C20.Z03.04.150。
- Insert should be ordered separately .
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC ME90WN D020.C20.Z03.04.150.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
WN..0403..	SR20 M2.5x6.5	KEY02 T07
WN..0807..	SR20 M4x11.5	KEY02 T07

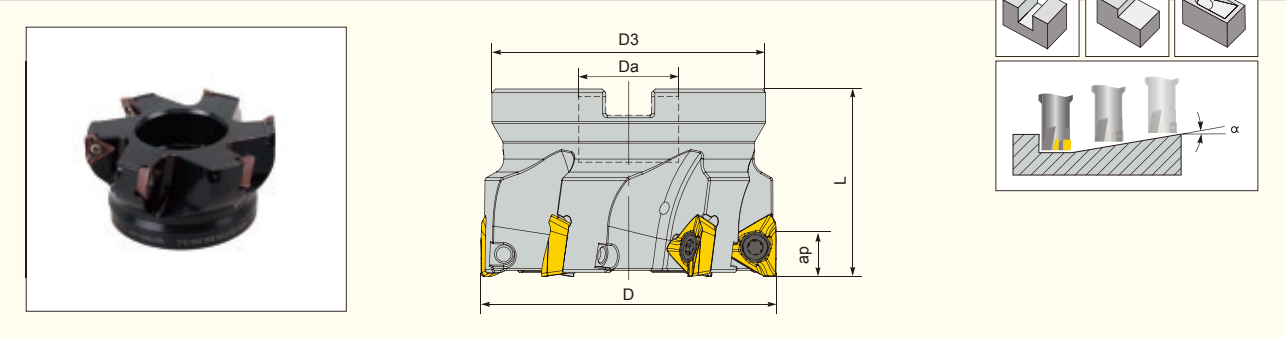
图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material							切削参数推荐 Cutting parameter		
		D	di	S	r	P	M	K	N	S	H		VC(m/min)	ap(mm)	fz(mm/z)
		6.7	3.25	3.3	0.4	●	●	●	●				120-200	4	0.1-0.2
	WNEX 040304-M5G 2230	6.7	3.25	3.3	0.4	●	●	●	●				120-200	4	0.1-0.2
	WNEX 040308-M5G 2230	6.7	3.25	3.3	0.8	●	●	●	●				120-200	4	0.1-0.2
	WNEX 040308-M5G 2240	6.7	3.25	3.3	0.8	●	●	●	●				120-200	4	0.1-0.2
	WNEX 080708-M5G 2230	12.48	4.6	6.45	0.8	●	●						120-200	7.5	0.1-0.2
	WNEX 080708-M5K 2225	12.48	4.6	6.45	0.8			●					120-200	7.5	0.1-0.2
	WNEX 080708-M7K 2115	12.48	4.6	6.45	0.8			●					120-200	7.5	0.1-0.2
	WNEX 080708-M5G 2240	12.48	4.6	6.45	0.8	●	●	●					120-200	7.5	0.1-0.2

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90TD..1505..

Kr=90°



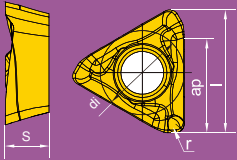
规格型号 Designation	D	ap	Z	L	D3	Da	Rd°	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF90TD D050.B22.Z04.15.C	50	13	4	40	46	22	1.6	Y	0.278	TD..1505..	●
MF90TD D063.B22.Z05.15.C	63	13	5	50	59	22	1.2	Y	0.523	TD..1505..	●
MF90TD D080.B27.Z06.15.C	80	13	6	50	74	27	0.9	Y	1.17	TD..1505..	●
MF90TD D100.B32.Z06.15.C	100	13	6	50	80	32	0.7	Y	1.45	TD..1505..	●
MF90TD D125.B40.Z07.15.C	125	13	7	63	82	40	0.5	Y	2.294	TD..1505..	●
MF90TD D160.B40.Z10.15	160	13	10	63	105	40	0.3	N	3.996	TD..1505..	●
MF90TD D200.B60.Z11.15	200	13	11	63	135	60	0.2	N	5.219	TD..1505..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90TD D050.B22.Z04.15.C。
- Insert should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90TD D050.B22.Z04.15.C.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
TD..1505..	SR21 M5x12	KEY02 T15

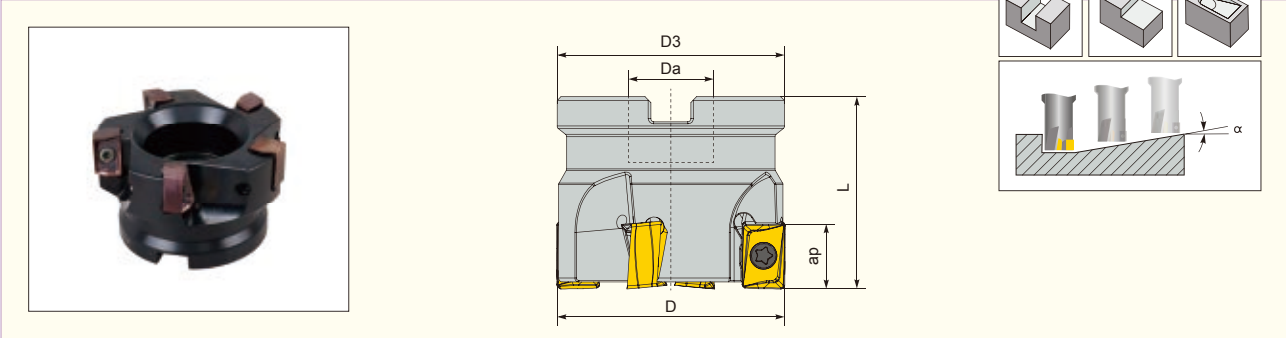
图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		l	di	S	r	F	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	TDKT 1505PDR-R3P 2130	16.7	11.4	5.85	0.8	1.4	●	●					1.5-13.00	0.08-0.15
	TDKT 1505PDR-R3K 2130	16.7	11.4	5.85	0.8	1.4			●				1.5-13.00	0.08-0.15

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90AN..1706..

Kr=90°



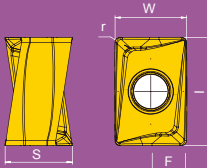
规格型号 Designation	D	ap	Z	L	D3	Da	Rd°	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF90AN D050.B22.Z04.17.C	50	16.3	4	40	48	22	3.8	Y	0.304	AN..1706..	●
MF90AN D063.B27.Z04.17.C	63	16.3	4	50	59.2	27	2	Y	0.669	AN..1706..	●
MF90AN D080.B27.Z05.17.C	80	16.3	5	50	63	27	1.5	Y	0.8	AN..1706..	●
MF90AN D100.B32.Z08.17.C	100	16.3	8	50	80	32	1	Y	1.474	AN..1706..	●
MF90AN D125.B40.Z07.17.C	125	16.3	7	63	82	40	0	Y	2.41	AN..1706..	●
MF90AN D160.B40.Z08.17	160	16.3	8	63	105	40	0	N	4.1	AN..1706..	●
MF90AN D200.B60.Z10.17	200	16.3	10	63	135	60	0	N	5.988	AN..1706..	●
MF90AN D250.B60.Z12.17	250	16.3	12	63	144	60	0	N	9.338	AN..1706..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90AN D050.B22.Z04.17.C。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90AN D050.B22.Z04.17.C.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
AN..1706..	SR20 M5x14	KEY02 T20

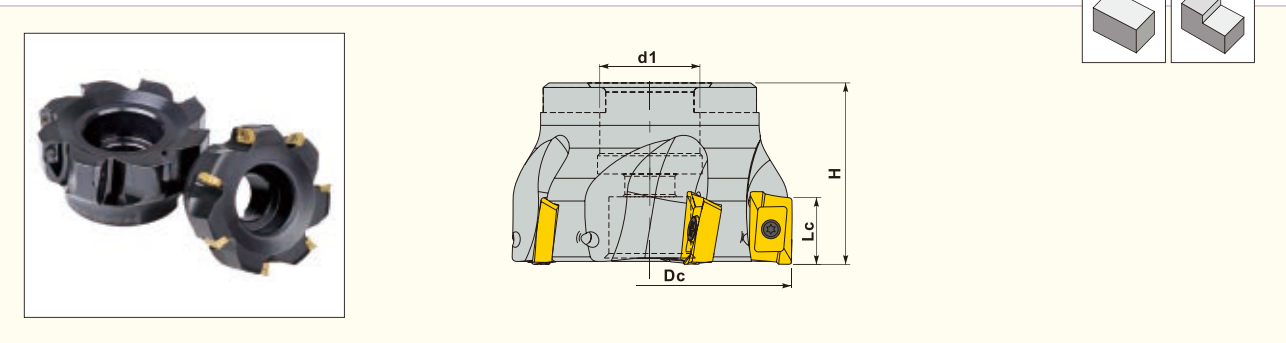
图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		I	W	S	r	F	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	ANKX 170608PNTR-R3P 2130	16.7	11.2	10.4	0.8	4.7	●	●					5.00-15.00	0.15-0.3
	ANKX 170608PNTR-R3K 2130	16.7	11.2	10.4	0.8	4.7			●				5.00-15.00	0.15-0.3

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90AP..1135..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	α°	Kg	刀片型号 Insert	在庫 Stock
MF90AP D040.B16.Z04.11	40	16	40	11	4	1.85	0.25	AP..1135..	●
MF90AP D050.B22.Z05.11	50	22	40	11	5	1.4	0.35	AP..1135..	●
MF90AP D063.B22.Z06.11	63	22	40	11	6	1	0.53	AP..1135..	●
MF90AP D080.B27.Z08.11	80	27	50	11	8	0.9	0.87	AP..1135..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D040.B16.Z03.16。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90AP D040.B16.Z03.16.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for claming screw
AP..1135..	SR20 M2.5x6	KEY02 T8

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material		切削参数推荐 Cutting parameter	
		r	F	l		P	M	ap(mm)	fz(mm/z)
	APMT 113508TR-M8P 2235	0.8	1.2	11.1	中型 Medium duty	●	●	2.0-8.0	0.08-0.15
	APMT 113504TR-M9N 2020	0.4	1.2	11.3	中型 Medium duty	●		2.0-8.0	0.10-0.30

● 标准库存
Item in stock

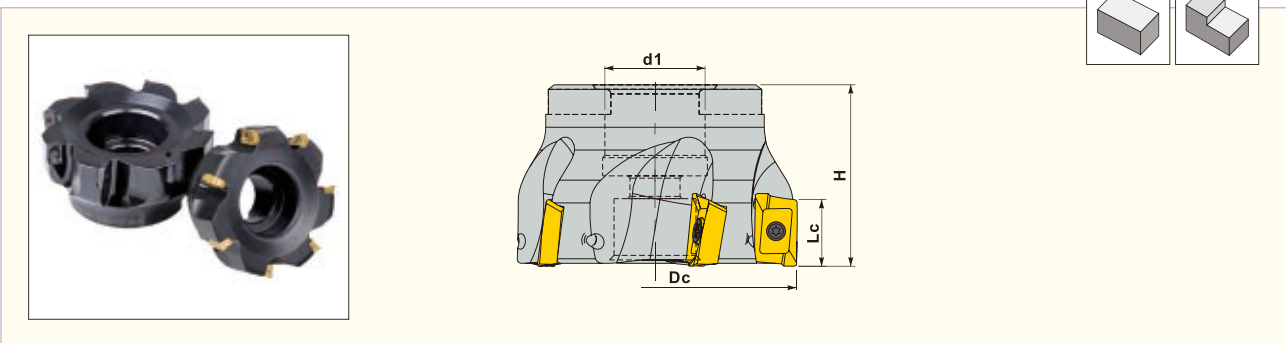
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90AP..1604..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	α°	Kg	刀片型号 Insert	在庫 Stock
MF90AP D040.B16.Z03.16	40	16	40	16	3	4	0.2	AP..1604..	●
MF90AP D050.B22.Z04.16	50	22	40	16	4	2.6	0.33	AP..1604..	●
MF90AP D063.B22.Z05.16	63	22	40	16	5	2	0.44	AP..1604..	●
MF90AP D080.B27.Z06.16	80	27	50	16	6	0.8	0.94	AP..1604..	●
MF90AP D100.B32.Z07.16	100	32	50	16	7	0.7	1.48	AP..1604..	●
MF90AP D125.B40.Z08.16	125	40	63	16	8	0.5	2.92	AP..1604..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90AP D040.B16.Z03.16。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90AP D040.B16.Z03.16.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for claming screw
AP..1604..	SR20 M4x11.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material		切削参数推荐 Cutting parameter	
		r	F	l		P	M	ap(mm)	fz(mm/z)
	APKT 1604TR-R4P 2135	0.8	1.8	17.3	重型 Heavy duty	●	●	6.0-14.0	0.10-0.20
	APKT 1604PDER-R5N 2020	0.8	1.7	17.92	中型 Medium duty	●		6.0-14.0	0.15-0.25

● 标准库存
Item in stock

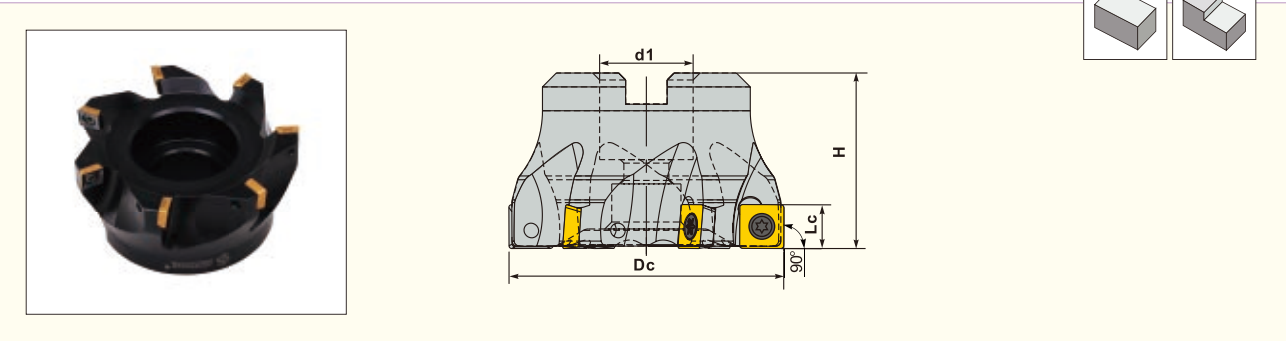
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

MF90SP..1004..

Kr=90°



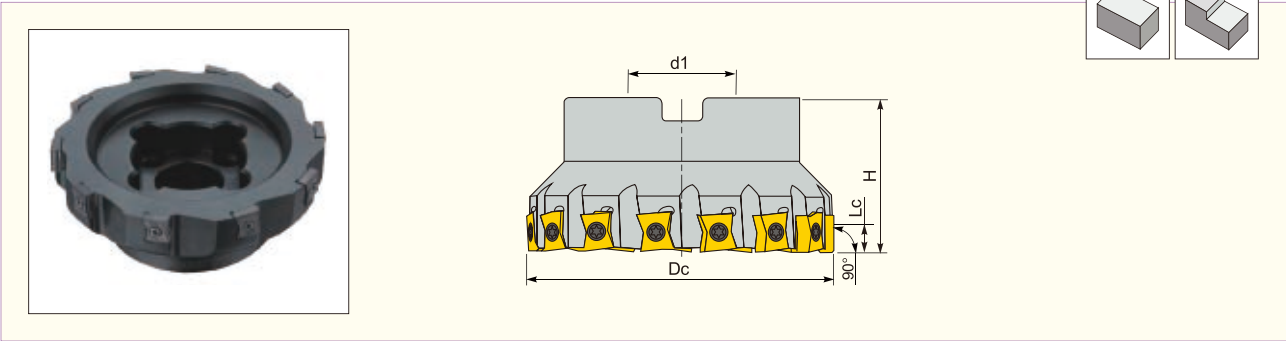
规格型号 Designation	Dc	d1	H	Lc	刀片数 z	α°	Kg	刀片型号 Insert	在庫 Stock
MF90SP D040.B16.Z03.10	40	16	40	9.6	3	-	0.19	SP..1004..	●
MF90SP D050.B22.Z04.10	50	22	40	9.6	4	2	0.33	SP..1004..	●
MF90SP D063.B22.Z05.10	63	22	40	9.6	5	0.8	0.45	SP..1004..	●
MF90SP D080.B27.Z05.10	80	27	50	9.6	5	1.25	0.88	SP..1004..	●
MF90SP D100.B32.Z07.10	100	32	50	9.6	7	0.75	1.40	SP..1004..	●
MF90SP D125.B40.Z09.10	125	40	63	9.6	9	0.75	2.58	SP..1004..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 ME90SP D040.B16.Z03.10。
- Insert should be ordered separately
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90SP D040.B16.Z03.10.

INDEXABLE INSERT SHOULDER MILLING CUTTER 可转位立铣刀

MF90LN..1106..

Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在庫 Stock
MF90LN D040.B16.Z04.11.R/L	40	16	40	5	4	0.22	LN..1106..	●
MF90LN D050.B22.Z05.11.R/L	50	22	40	5	5	0.32	LN..1106..	●
MF90LN D063.B22.Z06.11.R/L	63	22	40	5	6	0.47	LN..1106..	●
MF90LN D080.B27.Z11.11.R/L	80	27	50	5	11	1.02	LN..1106..	○
MF90LN D100.B32.Z09.11.R/L	100	32	50	5	9	1.38	LN..1106..	●
MF90LN D125.B40.Z10.11.R/L	125	40	63	5	10	2.71	LN..1106..	●
MF90LN D160.B40.Z12.11.R/L	160	40	63	5	12	4.66	LN..1106..	●
MF90LN D200.B60.Z16.11.R/L	200	60	63	5	16	5.84	LN..1106..	○

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF90LN D040.B16.Z04.11.R。
- Insert should be ordered separately
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90LN D040.B16.Z04.11.R.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SP..1004..	SR21 M4x9.5	KEY02 T15

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
LN..1106..	SR20 M3.5x11.5	KEY02 T10

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		r	F	l			ap(mm)	fz(mm/z)
	SPMT 100408-M8P 2235	10.2	4.23	0.7	中型 Medium duty	● ●	4.0-8.0	0.08-0.15
	SPMT 100408-M8K 2215	10.2	4.23	0.7	中型 Medium duty	●	4.0-8.0	0.08-0.15

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		W	l	S	r			ap(mm)	fz(mm/z)
	LNKX 1106T-R4P 2230	6	11.16	11	0.8	重型 Heavy duty	● ●	1.5-5.0	0.17-0.25
	LNKX 1106T-R4K 2215	6	11.16	11	0.8	中型 Medium duty	●	1.5-5.0	0.15-0.20
	LNAR 1106F-M8N 2020	6	11.16	11	0.8	轻型 Light duty	●	1.5-5.0	0.15-0.20
	LNMT 110608-M5G 2230	6	11	11	0.8	中型 Medium duty	● ●	1.5-5.0	0.10-0.25
	LNMT 110608-M5K 2115	6	11	11	0.8	中型 Medium duty	●	1.5-5.0	0.12-0.30

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

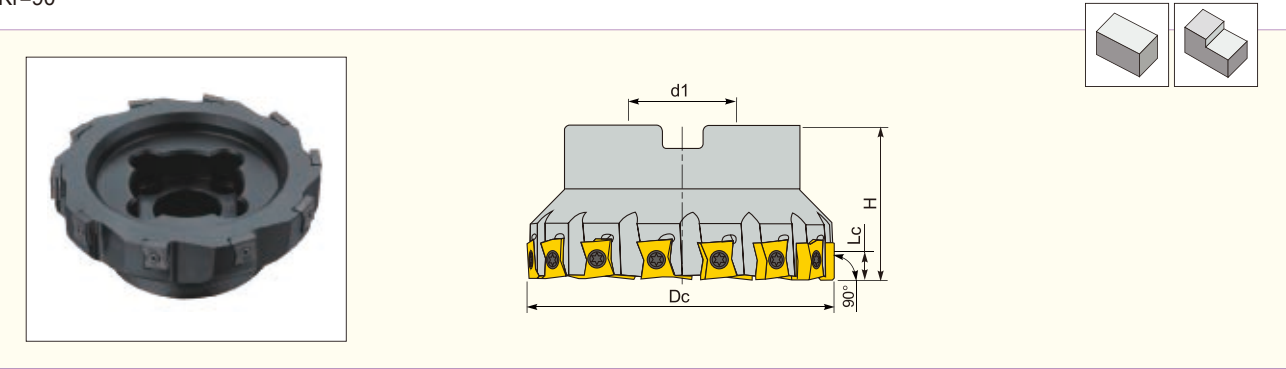
● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90LN..1506..
Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在庫 Stock
MF90LN D050.B22.Z05.15.R/L	50	22	40	7	5	0.4	LN..1506..	●
MF90LN D063.B22.Z05.15.R/L	63	22	40	7	5	0.5	LN..1506..	●
MF90LN D063.B22.Z08.15.R/L	63	22	40	7	8	0.5	LN..1506..	○
MF90LN D080.B27.Z07.15.R/L	80	27	40	7	7	0.85	LN..1506..	●
MF90LN D080.B27.Z10.15.R/L	80	27	50	7	10	0.85	LN..1506..	○
MF90LN D100.B32.Z08.15.R/L	100	32	50	7	8	1.8	LN..1506..	●
MF90LN D125.B40.Z09.15.R/L	125	40	63	7	9	3.0	LN..1506..	●
MF90LN D160.B40.Z10.15.R/L	160	40	63	7	10	6.0	LN..1506..	●
MF90LN D200.B60.Z12.15.R/L	200	60	63	7	12	8.2	LN..1506..	●
MF90LN D250.B60.Z15.15.R/L	250	60	63	7	15	12.2	LN..1506..	●
MF90LN D315.B60.Z20.15.R/L	315	60	80	7	20	28.3	LN..1506..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：☞ C41 页。
- 订货示例：1 件 MF90LN D050.B22.Z04.15.R。
- Insert should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90LN D050.B22.Z04.15.R.

备件

Spare Parts

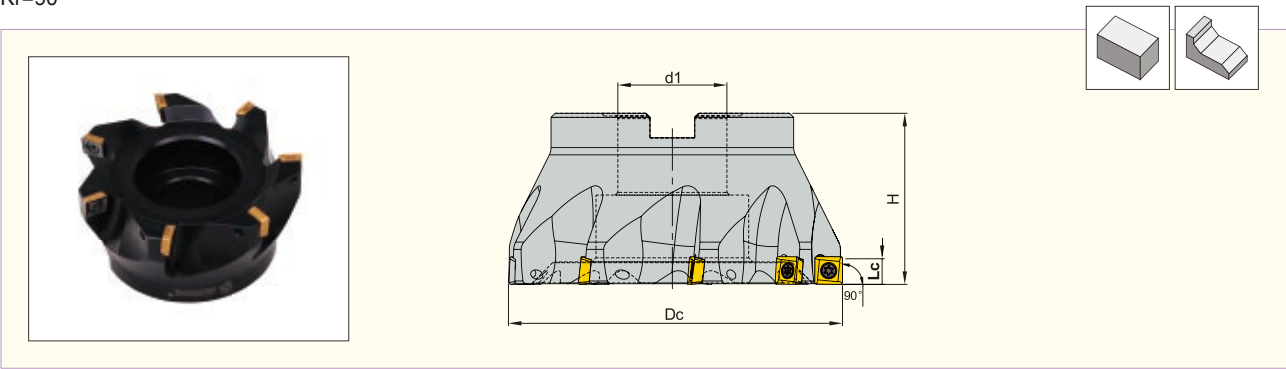
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
LN..1506..	SR20 M4x11.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		W	I	S	r		P M K N S H	ap(mm)	fz(mm/z)
	LNKX 1506T-M8K 2215	6	15	13.9	0.8	中型 Medium duty	●	2.0-7.0	0.20-0.30
	LNKX 1506T-R4P 2235	6	15	13.9	0.8	重型 Heavy duty	● ●	2.0-7.0	0.30-0.40
	LNAR 1506F-M8N 2020	6	15	13.9	0.8	轻型 Light duty	●	2.0-7.0	0.10-0.15
	LNMT 150608-M7G 2230	6	15	13.9	0.8	重型 Heavy duty	● ●	1.5-5.0	0.10-0.25
	LNMT 150608-M7K 2115	6	15	13.9	0.8	重型 Heavy duty	●	1.5-5.0	0.12-0.30
	LNMT 150608-F3M 2140	6	15	13.9	0.8	中型 Medium duty	●	1.5-5.0	0.10-0.25

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90SD..1205..
Kr=90°



规格型号 Designation	Dc	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在庫 Stock
MF90SD D050.B22.Z04.12	50	22	40	11.8	4	0.26	SD..1205..	●
MF90SD D063.B22.Z05.12	63	22	40	11.8	5	0.42	SD..1205..	●
MF90SD D080.B27.Z06.12	80	27	50	11.8	6	0.86	SD..1205..	●
MF90SD D100.B32.Z07.12	100	32	50	11.8	7	1.42	SD..1205..	●
MF90SD D125.B40.Z08.12	125	40	63	11.8	8	2.65	SD..1205..	●
MF90SD D160.B40.Z09.12	160	40	63	11.8	9	3.77	SD..1205..	●
MF90SD D200.B60.Z13.12	200	60	63	11.8	13	6.70	SD..1205..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：☞ C41 页。
- 订货示例：1 件 MF90SD D050.B22.Z05.12。
- Insert should be ordered separately.
- Recommended cutting data please sea page C41.
- Ordering sample: 1 PC MF90SD D050.822205.12.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SD..1205..	SR20 M4x11.5	KEY02 T15

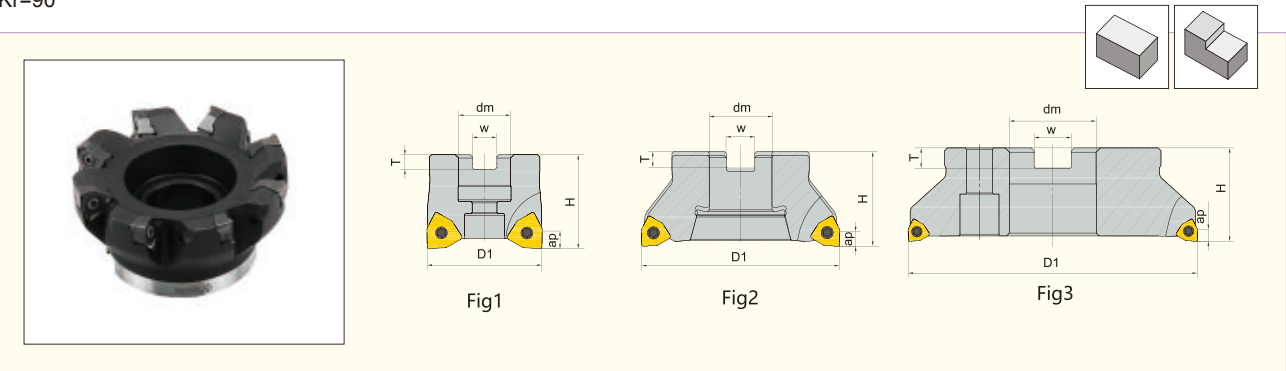
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		I	S	r		P M K N S H	ap(mm)	fz(mm/z)
	SDMX 1205-M8P 2230	12.7	5.1	0.8	中型 Medium duty	● ●	4.0-10.0	0.07-0.12
	SDMX 1205-M8K 2215	12.7	5.1	0.8	中型 Medium duty	●	4.0-10.0	0.07-0.12

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF90WN..0807..

Kr=90°



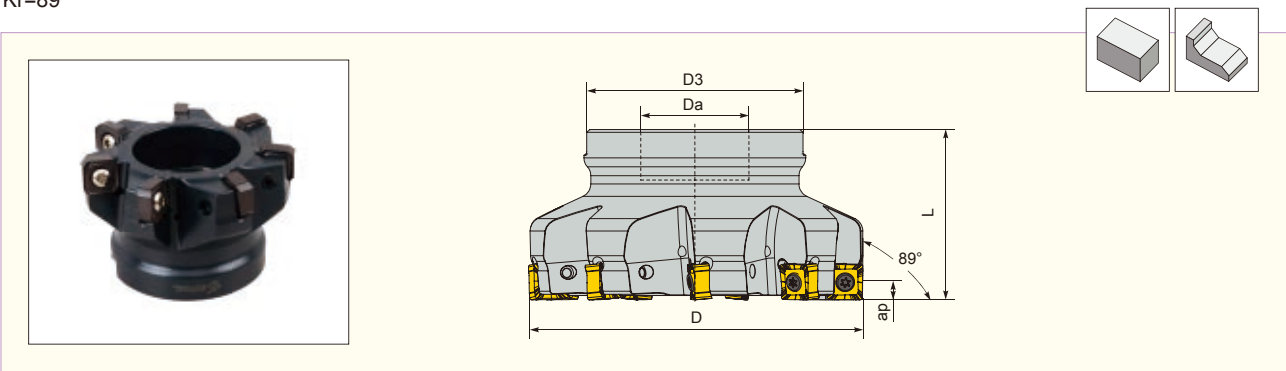
规格型号 Designation	D1	齿数 z	dm	H	W	T	ap	内冷 Coolant	图示 z	刀片型号 Insert	在庫 Stock
MF90WN D050.B22.Z05.08	50	5	22	40	10.4	6.3	7.5	N	Fig1	WN..0807..	●
MF90WN D063.B22.Z06.08	63	6	22	40	10.4	6.3	7.5	N	Fig1	WN..0807..	●
MF90WN D080.B27.Z07.08	80	7	27	50	12.4	7	7.5	N	Fig1	WN..0807..	●
MF90WN D100.B32.Z08.08	100	8	32	50	14.4	8	7.5	N	Fig2	WN..0807..	●
MF90WN D125.B40.Z11.08	125	11	40	63	16.4	9	7.5	N	Fig2	WN..0807..	●
MF90WN D160.B40.Z12.08	160	12	40	63	16.4	9	7.5	N	Fig3	WN..0807..	●
MF90WN D200.B60.Z16.08	200	16	60	63	25.7	14	7.5	N	Fig3	WN..0807..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：☞ C41 页。
- 订货示例：1 件 MF90WN D050.B22.Z05.08。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF90WN D050.B22.Z05.08.

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF89SN..1305..

Kr=89°



规格型号 Designation	D	ap	齿数 z	L	D3	Da	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF89SN D040 B16.Z04.13.C	40	10	4	40	40	16	Y	0.184	S890 SN..1305..	●
MF89SN D050 B22.Z04.13.C	50	10	4	40	48	22	Y	0.281	S890 SN..1305..	●
MF89SN D063 B22.Z05.13.C	63	10	5	40	48	22	Y	0.385	S890 SN..1305..	●
MF89SN D080 B27.Z07.13.C	80	10	7	50	60	27	Y	0.74	S890 SN..1305..	●
MF89SN D100 B32.Z08.13.C	100	10	8	50	70	32	Y	1.267	S890 SN..1305..	●
MF89SN D125 B40.Z09.13.C	125	10	9	63	82	40	Y	2.303	S890 SN..1305..	●
MF89SN D160 B40.Z10.13	160	10	10	63	106	40	N	4.282	S890 SN..1305..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照：☞ C41 页。
- 订货示例：1 件 MF89SN D040 B16.Z04.13.C。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF89SN D040 B16.Z04.13.C.

备件

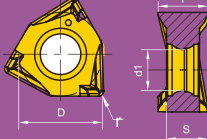
Spare Parts

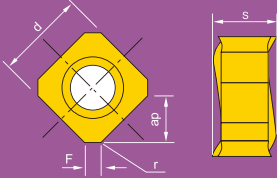
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
WN..0807..	SR20 M4x11.5	KEY02 T15

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
S890 SN..1305..	SR26 M4x12.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material						切削参数推荐 Cutting parameter		
		D	d1	S	r	P	M	K	N	S	H	VC(m/min)	ap(mm)	fz(mm/rev)
	WNEX 080708-M5G 2230	12.48	4.6	6.45	0.8	●	●					120-200	7.5	0.1-0.2
	WNEX 080708-M5K 2225	12.48	4.6	6.45	0.8			●				120-200	7.5	0.1-0.2
	WNEX 080708-M7K 2115	12.48	4.6	6.45	0.8			●				120-200	7.5	0.1-0.2
	WNEX 080708-M5G 2240	12.48	4.6	6.45	0.8	●	●			●		120-200	7.5	0.1-0.2

图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material					切削参数推荐 Cutting parameter		
		di	S	ap	F	r	P	M	K	N	S	H	ap(mm)	fz(mm/z)
	S890 SNMU 1305PNR-R3P 2130	13	5.6	9	1.8	0.8	●	●					5.00-15.00	0.15-0.3
	S890 SNMU 1305PNR-R3K 2130	13	5.6	9	1.8	0.8			●				5.00-15.00	0.15-0.3

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

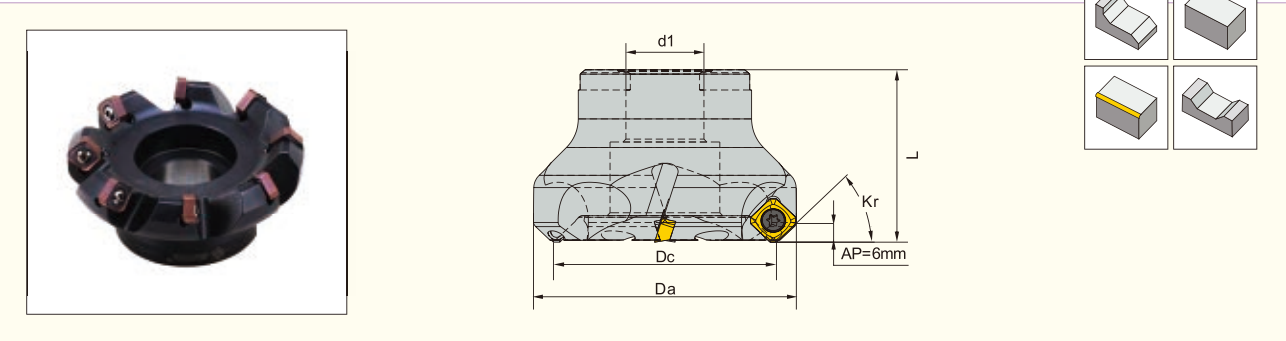
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SN..1306..

Kr=89°



规格型号 Designation	Dc	Da	d1	L	刀片数 z	Kr	Kg	刀片型号 Insert	在庫 Stock
MF45SN D040.B22.Z04.13	40	50.4	22	41.2	4	45°	0.3	SN..1306..	●
MF45SN D050.B22.Z04.13	50	60.4	22	41.2	4	45°	0.4	SN..1306..	●
MF45SN D063.B22.Z06.13	63	73.4	22	41.2	6	45°	0.5	SN..1306..	●
MF45SN D080.B27.Z07.13	80	90.4	27	51.2	7	45°	1	SN..1306..	●
MF45SN D100.B32.Z08.13	100	110.4	32	51.2	8	45°	1.4	SN..1306..	●
MF45SN D125.B40.Z10.13	125	135.6	40	64.2	10	45°	2.7	SN..1306..	●
MF45SN D160.B40.Z12.13	160	170.4	40	63.0	12	45°	3.33	SN..1306..	●
MF45SN D200.B60.Z14.13	200	210.4	60	63.0	14	45°	5.78	SN..1306..	●
MF45SN D250.B60.Z16.13	250	260.4	60	63.0	16	45°	8.08	SN..1306..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照： C41 页。
- 订货示例：1 件 MF45SN D040.B22.Z04.13。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SN D040.B22.Z04.13.

备件

Spare Parts

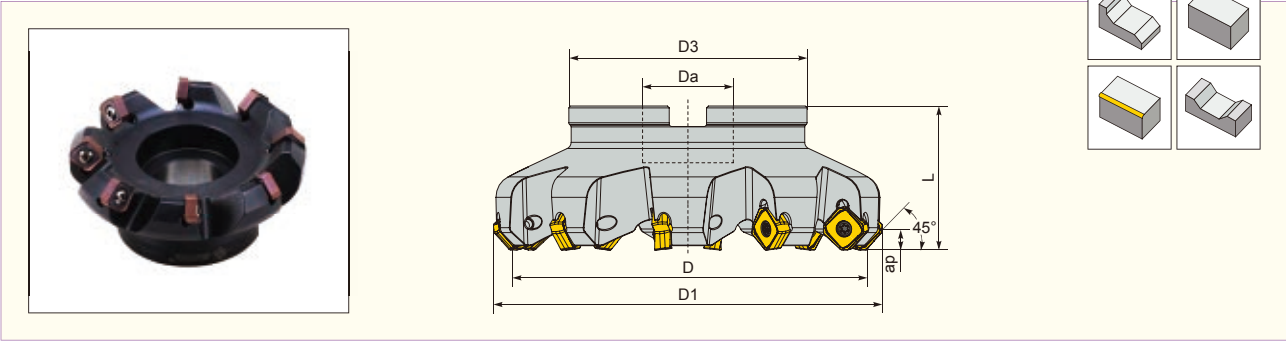
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SN..1306..	SR26 M4x12.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size					加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		d	ap	s	F	r			ap(mm)	fz(mm/z)
	SNMU 1306T-R4P 2235	13	6	6.2	3	0.5	重型 Heavy duty	● ●	2.0-6.0	0.20-0.40
	SNMU 1306F-R4K 2215	13	6	6.2	3	0.5	重型 Heavy duty	●	2.0-6.0	0.15-0.40
	SNGU 1606ADTR-R3P 2130	16.2	7.63	2.84	0.8	7.15	● ●	●	3.00-7.00	0.3-0.5
	SNGU 1606ADTR-R3K 2130	16.2	7.63	2.84	0.8	7.15	●	●	3.00-7.00	0.3-0.5

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SN..1606..

Kr=45°



规格型号 Designation	D	D1	Z	ap	L	D3	Da	内冷 Coolant	Kg	刀片型号 Insert	在庫 Stock
MF45SN D063.B22.Z05.16.C	63	77.8	5	7.15	45	60	22	Y	0.727	SN..1606..	●
MF45SN D080.B27.Z09.16.C	80	93.1	9	7.15	50	63	27	Y	1.011	SN..1606..	●
MF45SN D100.B32.Z07.16.C	100	114.6	7	7.15	50	80	32	Y	1.626	SN..1606..	●
MF45SN D125.B40.Z08.16.C	125	139.8	8	7.15	63	82	40	Y	2.686	SN..1606..	●
MF45SN D160.B40.Z10.16	160	174.8	10	7.15	63	105	40	N	4.16	SN..1606..	●
MF45SN D200.B60.Z12.16	200	214.8	12	7.15	63	135	60	N	5.847	SN..1606..	●
MF45SN D250.B60.Z15.16	250	264.8	15	7.15	63	144	60	N	8.581	SN..1606..	●

- 刀片请根据不同材料单独订购。
- 加工不同的切削参数，请参照： C41 页。
- 订货示例：1 件 MF45SN D063.B22.Z05.16.C。
- Inserts should be ordered separately .
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SN D063.B22.Z05.16.C.

备件

Spare Parts

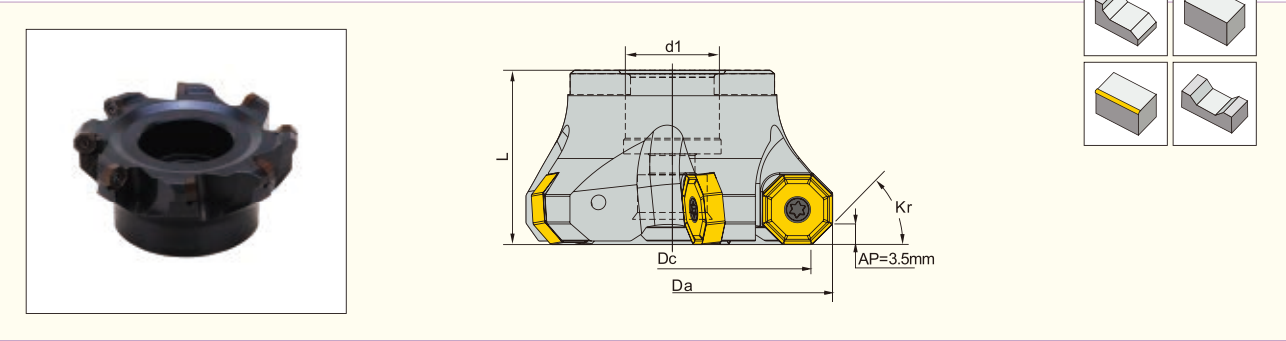
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SN..1606..	SR20 M5x14	KEY02 T20

图例 Diagram	刀片型号 Insert	尺寸 Size					适配加工材质 Material	切削参数推荐 Cutting parameter	
		di	S	F	r	ap		ap(mm)	fz(mm/z)
	SNGU 1606ADTR-R3P 2130	16.2	7.63	2.84	0.8	7.15	● ●	3.00-7.00	0.3-0.5
	SNGU 1606ADTR-R3K 2130	16.2	7.63	2.84	0.8	7.15	●	3.00-7.00	0.3-0.5

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45ON..0506..

Kr=45°



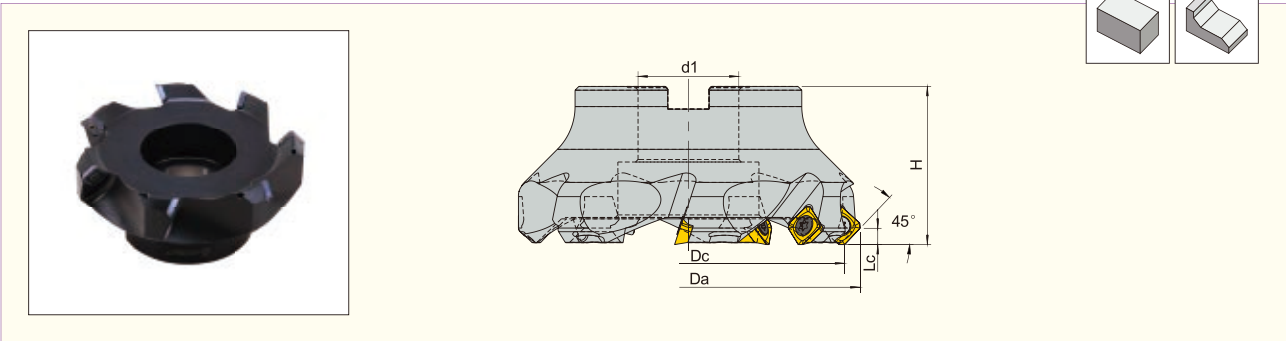
规格型号 Designation	Dc	Da	d1	L	刀片数 z	Kr	Kg	刀片型号 Insert	在庫 Stock
MF45ON D040.B22.Z04.05	40	50.4	22	40	4	44°	0.32	ON..0506..	●
MF45ON D050.B22.Z05.05	50	60.4	22	40	5	44°	0.41	ON..0506..	●
MF45ON D063.B22.Z05.05	63	73.4	22	40	5	44°	0.45	ON..0506..	●
MF45ON D080.B27.Z06.05	80	90.4	27	50	6	44°	0.89	ON..0506..	●
MF45ON D100.B32.Z07.05	100	110.4	32	50	7	44°	1.45	ON..0506..	●
MF45ON D125.B40.Z08.05	125	135.6	40	63	8	44°	2.54	ON..0506..	●
MF45ON D160.B40.Z12.05	160	170.4	40	63	12	44°	3.33	ON..0506..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45ON D040.B22.Z04.05。
- Insert should be ordered separately.
- Raoommended cutting data please sea page C41.
- Ordering sample: 1 PC MF45ON D040.B22.Z04.05.

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SE..12T3..

Kr=45°



规格型号 Designation	Dc	Da	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在庫 Stock
MF45SE D050.B22.Z04.12	50	63	22	40	6.5	4	0.40	SE..12T3..	●
MF45SE D063.B22.Z05.12	63	75.9	22	40	6.5	5	0.54	SE..12T3..	●
MF45SE D080.B27.Z06.12	80	93.2	27	50	6.5	6	1.08	SE..12T3..	●
MF45SE D100.B32.Z06.12	100	113.2	32	50	6.5	6	1.54	SE..12T3..	●
MF45SE D125.B40.Z07.12	125	138	40	63	6.5	7	2.67	SE..12T3..	●
MF45SE D160.B40.Z07.12	160	173	40	63	6.5	7	4.10	SE..12T3..	●
MF45SE D200.B60.Z10.12	200	212.9	60	63	6.5	10	7.70	SE..12T3..	●
MF45SE D250.B60.Z13.12	250	262.9	60	63	6.5	13	10.50	SE..12T3..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45SE D050.B22.Z04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SE D050.B22.Z04.12.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for claming screw
ON..0506..	SR20 M5x11	KEY02 T20

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for claming screw
SE..12T3..	SR20 M3.5x11	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size					加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		d	ap	s	F	r		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	ONEG 050605T-R4P 2235	13	3.5	5.5	5	0.5	重型 Heavy duty	●	●					1.5-3.0	0.3-0.4
	ONEG 050605T-R4K 2215	13	3.5	5.5	5	0.5	重型 Heavy duty			●				1.5-3.0	0.3-0.4

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		F	S	d		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	SEHT 12T3-M9N 2025	2.2	4.76	12.7	中型 Medium duty				●			2.0-6.0	0.15-0.30
	SEMT 12T3-M8P 2230	2.2	3.81	12.7	中型 Medium duty	●	●					2.0-6.0	0.12-0.20
	SEMT 12T3-M8K 2215	2.2	3.81	12.7	中型 Medium duty				●			2.0-6.0	0.12-0.20

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

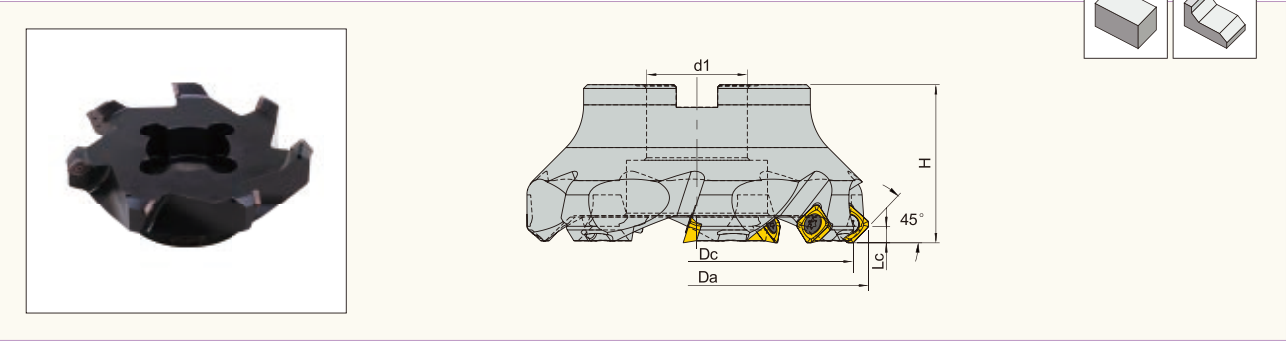
● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45SET..12T3..

Kr=45°



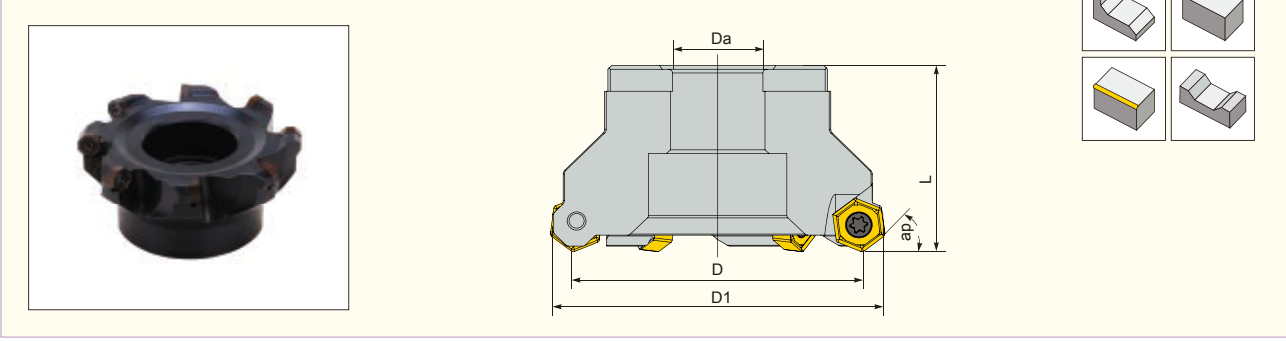
规格型号 Designation	Dc	Da	d1	H	Lc	刀片数 z	Kg	刀片型号 Insert	在庫 Stock
MF45SET D050.B22.Z04.12	50	63	22	40	6.5	4	0.4	SE..12T3..	●
MF45SET D063.B22.Z05.12	63	75.9	22	40	6.5	5	0.54	SE..12T3..	●
MF45SET D080.B27.Z06.12	80	93.2	27	50	6.5	6	1.08	SE..12T3..	●
MF45SET D100.B32.Z06.12	100	113.2	32	50	6.5	6	1.54	SE..12T3..	●
MF45SET D125.B40.Z07.12	125	138	40	63	6.5	7	2.67	SE..12T3..	●
MF45SET D160.B40.Z07.12	160	173	40	63	6.5	7	4.1	SE..12T3..	●
MF45SET D200.B60.Z10.12	200	212.9	60	63	6.5	10	7.7	SE..12T3..	●
MF45SET D250.B60.Z13.12	250	262.9	60	63	6.5	13	10.5	SE..12T3..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45SE D050.B22.Z04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45SE D050.B22.Z04.12.

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MF45HN..0906..

Kr=45°



规格型号 Designation	D	ap	齿数 z	L	Da	刀片型号 Insert	在庫 Stock
MF45HN D063 B22.Z06.09	63	5	6	50	22	HN..0906..	●
MF45HN D080 B22.Z06.09	80	5	6	50	22	HN..0906..	●
MF45HN D100 B32.Z08.09	100	5	8	63	32	HN..0906..	●
MF45HN D125 B40.Z10.09	125	5	10	63	40	HN..0906..	●
MF45HN D160 B40.Z12.09	160	5	12	63	40	HN..0906..	●
MF45HN D200 B60.Z12.09	200	5	12	63	60	HN..0906..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MF45HN D063 B22.Z06.09。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MF45HN D063 B22.Z06.09.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw	刀垫 Shim	刀垫螺钉 Screw for shim	刀垫锁紧扳手 Allen key for shim screw
SE..12T3..	SR20 M3.5x11	KEY02 T15	ST02 S12x0.8	SR28 M5x11	KEY01 M3.5

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
HN..0906..	SR26 M4x10	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		F	S	d			ap(mm)	fz(mm/z)
	SEHT 12T3-M9N 2025	2.2	4.76	12.7	中型 Medium duty	●	2.0-6.0	0.15-0.30
	SEMT 12T3-M8P 2230	2.2	3.81	12.7	中型 Medium duty	● ●	2.0-6.0	0.12-0.20
	SEMT 12T3-M8K 2215	2.2	3.81	12.7	中型 Medium duty	●	2.0-6.0	0.12-0.20

图例 Diagram	刀片型号 Insert	尺寸 Size			适配加工材质 Material	切削参数推荐 Cutting parameter	
		d	S	d1		ap(mm)	fz(mm/z)
	HNGX 0906ANEN-M7M 2110	16.5	6.35	4.9	● ● ●	0.50-5.00	0.05-0.20

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

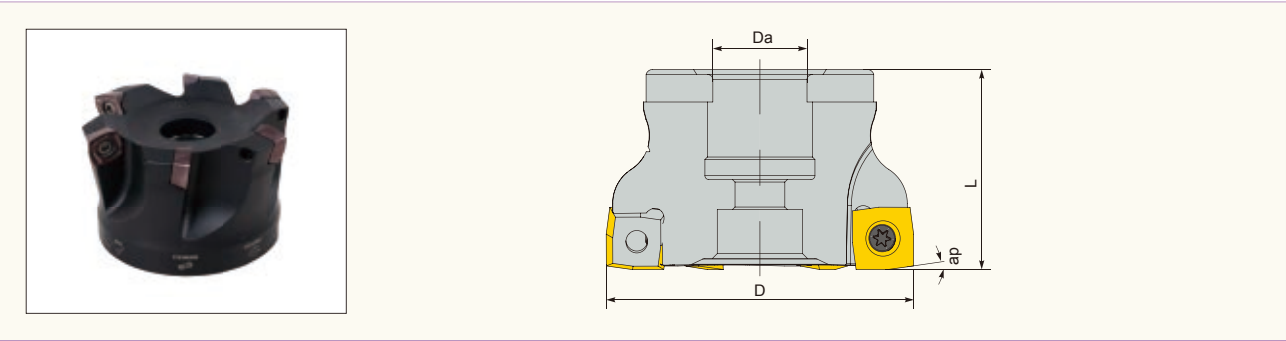
● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

FFSD.. 快进给铣刀盘
Fast Feed Milling Cutter



规格型号 Designation	D	ap	齿数 z	L	Da	刀片型号 Insert	在庫 Stock
FFSD D050 B22.Z04.12	50	2	4	40	22	SDMT 120512	●
FFSD D063 B22.Z05.12	63	2	5	50	22	SDMT 120512	●
FFSD D080 B27.Z06.12	80	2	6	50	27	SDMT 120512	●
FFSD D100 B32.Z07.12	100	2	7	50	32	SDMT 120512	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MFFFS D050 B22.Z04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC FFSD D050 B22.Z04.12.

备件
Spare Parts

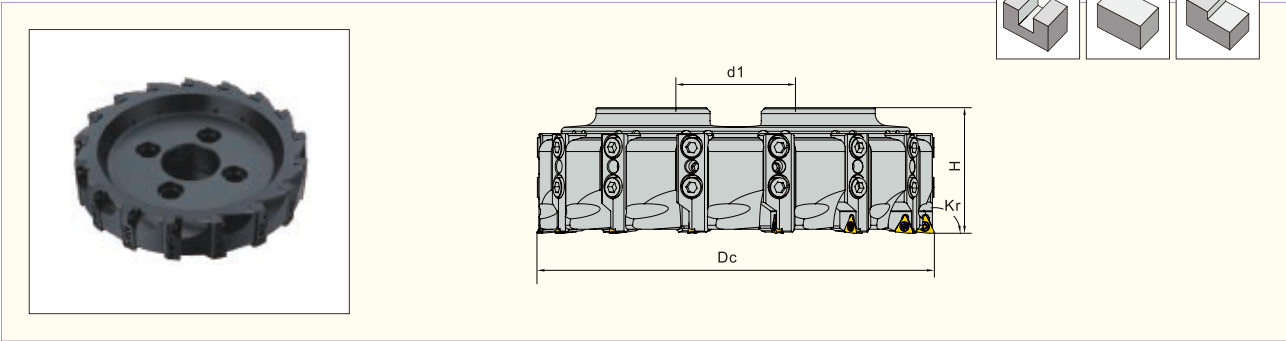
刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw
SDMT 120512	SR26 M4x11	KEY02 T15
SDMT 120512	SR26 M4x11	KEY02 T15
SDMT 120512	SR26 M4x11	KEY02 T15
SDMT 120512	SR26 M4x11	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size			适配加工材质 Material	切削参数推荐 Cutting parameter	
		d	S	R		ap(mm)	f(mm/z)
		12.7	5.56	1.2		0.50-2.00	0.50-1.50
	SDMT 120512-M5G 2230	12.7	5.56	1.2	● ● ●	0.50-2.00	0.50-1.50
	SDMT 120512-M5G 2240	12.7	5.56	1.2	●	0.50-2.00	0.50-1.50

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MFRIL115 可调式精铣刀
Adjustable Finish Milling Cutter

Kr=115°



规格型号 Designation	Dc	d1	H	Z	Kr	Kg	刀片型号 Insert	在庫 Stock
MFR/L115 D080.B27.Z06.13	80	27	63	6	115°	1.5	TXMW 1303..	●
MFR/L115 D100.B32.Z08.13	100	32	63	8	115°	2.1	TXMW 1303..	●
MFR/L115 D125.B40.Z10.13	125	40	63	10	115°	3.5	TXMW 1303..	●
MFR/L115 D160.B40.Z12.13	160	40	63	12	115°	5.3	TXMW 1303..	●
MFR/L115 D200.B60.Z14.13	200	60	63	14	115°	8.1	TXMW 1303..	●
MFR/L115 D250.B60.Z17.13	250	60	63	17	115°	12.2	TXMW 1303..	●
MFR/L115 D315.B60.Z20.13	315	60	63	20	115°	20.5	TXMW 1303..	●
MFR/L115 D400.B60.Z24.13	400	60	63	24	115°	31.5	TXMW 1303..	●

- 适配刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 刀具切深不能大于刀片圆角。
- 订货示例：1 件 MFR 115 D080.B27.Z06.13。
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C41.
- The cutting depth should not be larger than the round of insert.
- Ordering sample: 1 PC MFR 115 D080.B27.Z06.13.

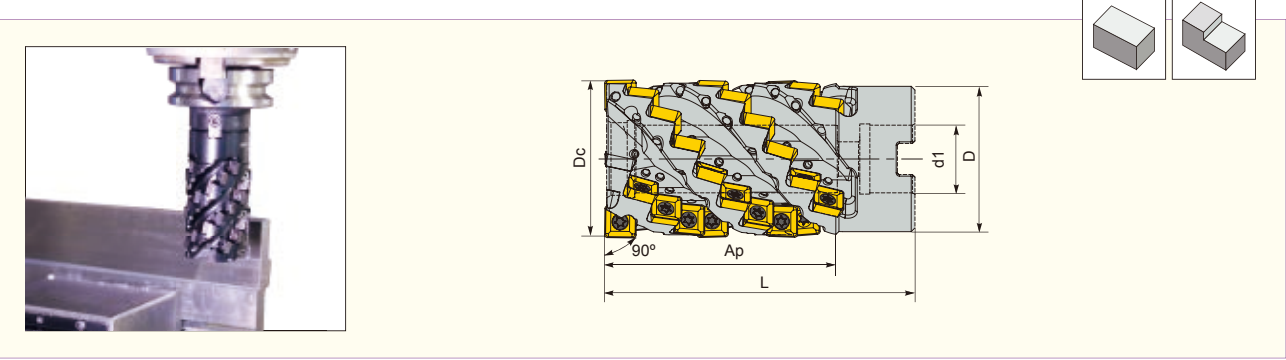
备件
Spare Parts

规格型号 Designation	刀座 Cartridge	刀片锁紧螺钉 Clamping screw for insert	偏心销 Adjusting blot/ eccentric pin	刀片锁紧螺钉 Clamping screw for cartridge	刀片锁紧扳手 Allen key for clamping screw	调整扳手 Adjusting wrench	刀座调整扳手 Adjusting wrench for cartridge
MFR/L115..	MR/L115	SR20 M2.5x6	FT70 D8x12.5	SR55 M6x20	KEY02 T8	KEY01 M4	KEY01 M5

图例 Diagram	刀片型号 Insert	尺寸 Size						适配加工材质 Material	切削参数推荐 Cutting parameter	
		l	r	a°	S	d	d1		ap(mm)	fz(mm/z)
		11	0.4	11	3.18	6.35	3.4		1.0-3.00	0.1-0.2
	TXMW 130304-M6K 2215				●					

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MM90SD..1204 阻尼减振玉米铣刀
Dampening Helical Milling Cutter



规格型号 Designation	Dc	Ap	Zeff	Z	L	D	d1	刀片型号 Insert	在庫 Stock
MM90SD D063.B27.Z24-04.12	63	57	4	24	85	58	27	SD..1204..	●
MM90SD D063.B27.Z40-04.12	63	94	4	40	124	58	27	SD..1204..	●
MM90SD D080.B32.Z35-05.12	80	65	5	35	95	74	32	SD..1204..	●
MM90SD D080.B32.Z60-05.12	80	110	5	60	143	74	32	SD..1204..	●
MM90SD D100.B40.Z48-06.12	100	76	6	48	106	94	40	SD..1204..	●
MM90SD D100.B40.Z84-06.12	100	133	6	84	165	94	40	SD..1204..	●

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C41 页。
- 订货示例：1 件 MM90SD D063.B27.Z24-04.12。
- Insert should be ordered separately.
- Recommended cutting data please see page C41.
- Ordering sample: 1 PC MM90SD D063.B27.Z24-04.12.

备件
Spare Parts

规格型号 Designation	刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	刀片锁紧扳手 Allen key for clamping screw	分体扳手头 Wrench head	冷却塞 Cooling plug
MM90SD D063.B27.Z24-04.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M30.L53-X
MM90SD D063.B27.Z40-04.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M30.L90-X
MM90SD D080.B32.Z35-05.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M42.L57-X
MM90SD D080.B32.Z60-05.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M42.L105-X
MM90SD D100.B40.Z48-06.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M52.L66-X
MM90SD D100.B40.Z84-06.12	SD..1204..	SR21 M4x11.7	KEY30 S4-T	BLD T20/S4-L	SR M52.L125-X

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	di	S	r		VC(m/min)	ap(mm)	fz(mm/z)
	SDGT 120412-R3S 4305	12.7	12.7	4.75	1.2	● ●	50-200	1-11.5	0.08-0.3
	SDGT 120412-R3P 1220	12.7	12.7	4.75	1.2	● ●	100-300	1-11.5	0.08-0.3

INDEXABLE INSERT FACE MILLING CUTTER 可转位面铣刀

MM90SD..1204 阻尼减振玉米铣刀
Dampening Helical Milling Cutter

MM90SD 系列玉米铣刀安装说明

Assembly Instructions for Helical Milling Cutter

请按照以下说明安装及分解刀具，将其连结至刀柄上，然后重新组装冷却塞。

Please follow the below instructions for assembling and disassembling the helical milling cutter. Then connect the tool to with the arbor and mount the cooling plug once again.

MM90SD D063.B27.Z40-04.12 装配举例：

- 在重新安装冷却塞时，应确保防松垫圈位于冷却塞下方的正确位置。可以使用少量油脂从而确保防松垫圈的定位；
- 如果实际加工轴向切深小于刀具的最大切深值，可使用单独供应的 SR50 M3 螺钉阻塞冷却孔，以确保刀具实际加工切深获得更多冷却；
- 重新安装冷却塞及锁紧螺钉需按照下表中设定的扭矩拧紧。

Example of assembly :

- Please be sure the lock washer is at the right position which is under the cooling plug when you mount the cooling plug once again. If everything is correct, there will be little oil release for fixing the lock washer.
- Please order the screw SR50 M3 separately for plugging up the cooling hole if the axial cutting depth is smaller than the max cutting depth. In that case the tool can be cooled best when machining.
- Please follow the recommended torque in below table for locking the screw when you mount the cooling plug once again.

规格型号 Designation	锁紧螺钉 Locking screw	安装螺钉的扭矩值 Nm Torque of mounting screw Nm		冷却塞 Cooling plug	安装冷却塞的扭矩值 Nm Torque of mounting lock washer Nm
		正常条件 Common condition	恶劣条件 ough condition		
MM90SD D063.B27.Z24-04.12	SR55 M12x30	80	100	SR M30.L53-X	34
MM90SD D063.B27.Z40-04.12	SR55 M12x30	80	100	SR M30.L90-X	34
MM90SD D080.B32.Z35-05.12	SR55 M16x40	110	150	SR M42.L57-X	61
MM90SD D080.B32.Z60-05.12	SR55 M16x40	110	150	SR M42.L105-X	61
MM90SD D100.B32.Z48-06.12	SR55 M20x50	120	180	SR M52.L66-X	61
MM90SD D100.B32.Z84-06.12	SR55 M20x50	120	180	SR M52.L125-X	61

SIDE AND FACE
MILLING CUTTER

三面刃铣刀

C
铣削刀具
MILLING CUTTERS三面刃铣刀
Side and Face Milling Cutter

可调式三面刃铣刀	C29
Adjustable Side and Face Milling Cutter	
LN11 三面刃铣刀	C30
LN11 Side And Face Milling Cutter	
LN15 三面刃铣刀	C32
LN15 Side And Face Milling Cutter	

可转位倒角刀
Indexable Insert Chamfer Cutter

长刃倒角刀	C34
Chamfering Cutter With Long Cutting Edge	
杆式倒角刀	C35
Chamfer Cutter With Cylindrical Shank	
盘式倒角刀	C36
Face Chamfering Cutter	

可调式端面槽铣刀
API Ring Grooving Cutter

可调式端面槽铣刀	C37
API Ring Grooving Cutter	
可调式端面槽铣刀刀座	C38
The Cartridges For Adjustable API Ring Groover	
简易可调式槽铣刀刀座	C39
Simple Adjustable Cartridge	
可调式端面槽铣刀使用说明	C40
The Instrution Manual For API Ring Groover	

技术资料
Technical Information

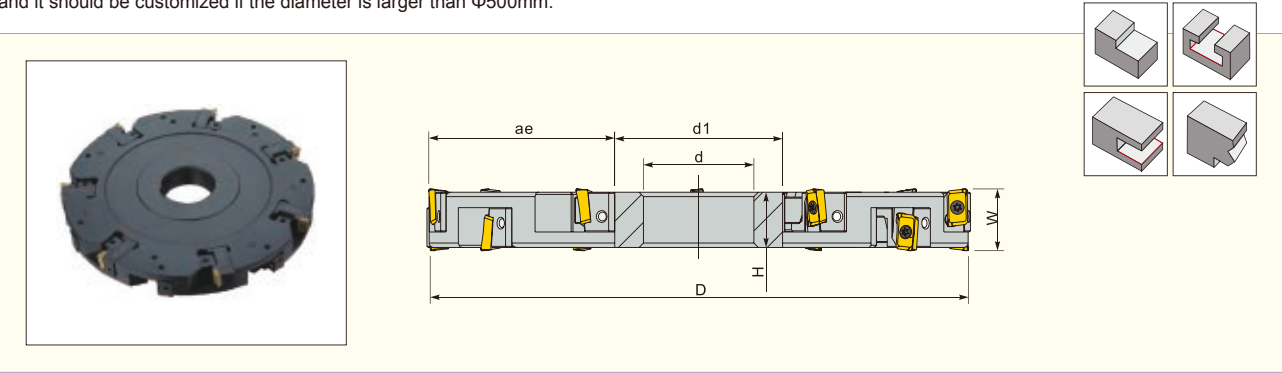
技术资料	C41
Technical Information	

SIDE AND FACE MILLING CUTTER 三面刃铣刀

可调式三面刃铣刀

Adjustable Side and Face Milling Cutter

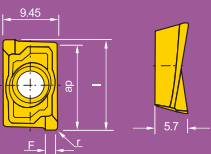
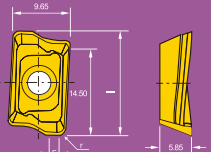
配置端面和径向可调的刀座，可更换不同刀片的刀座，调整更换方便；可正反铣面和铣槽；标准产品刀具直径 Φ200~Φ500，直径 Φ500 以上非标定制。
It is with cartridge with different inserts; It can mill the surface and groove; the diameter of standard milling cutter Φ200-Φ500mm, and it should be customized if the diameter is larger than Φ500mm.



规格型号 Designation	D	W	ae	d	d1	H	Z	Kg	适配刀座 Cartridge	在庫 Stock
MSSB D200.B40.W28.Z12.15	200	28	60	40	80	25	2x6	4.8	MSR 905 MSL 905	●
MSSB D250.B50.W28.Z14.15	250	28	75	50	100	25	2x7	7.8		●
MSSB D315.B50.W30.Z16.15	315	30	107	50	100	27	2x8	11.4		●
MSSB D400.B50.W30.Z20.15	400	30	150	50	100	27	2x10	19.3		●
MSSB D500.B50.W30.Z24.15	500	30	200	50	100	27	2x12	29.2	MSR 902 MSL 902	●
MSSB D200.B40.W28.Z12.16	200	28	60	40	80	25	2x6	4.8		●
MSSB D250.B50.W28.Z14.16	250	28	75	50	100	25	2x7	7.8		●
MSSB D315.B50.W30.Z16.16	315	30	107	50	100	27	2x8	11.4		●
MSSB D400.B50.W30.Z20.16	400	30	150	50	100	27	2x10	19.3		●
MSSB D500.B50.W30.Z24.16	500	30	200	50	100	27	2x12	29.2		●

- 请尽量使用冷却液。
- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 铣槽时请根据具体情况选择较小的切削尝试。
- 订货示例：1 件 MSSB D200.B40.W28.Z12.15。
- Please use the coolant oil as far as possible.
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C31 页。
- Please choose the samlier cutting parameter when machining groove.
- Ordering sample: 1 PC MSSB D200.B40.W28.Z12.15.

备件 Spare parts	刀座型号 Designation	刀片型号 Insert	刀片螺钉 Clamping screw for insert	刀锁紧扳手 Allen key for clamping screw
刀座 Cartridge	MSR/L 902	AP..1604..	SR20 M4x11.5	KEY02 T15
刀座 Cartridge	MSR/L 905	AD..1505..	SR20 M4x11.5	KEY02 T15
锁紧楔块 Lock wedge	XKM6-01	-	-	-
锁紧螺栓 Locek bolt	SR58 M6x21	-	-	KEY01 M3

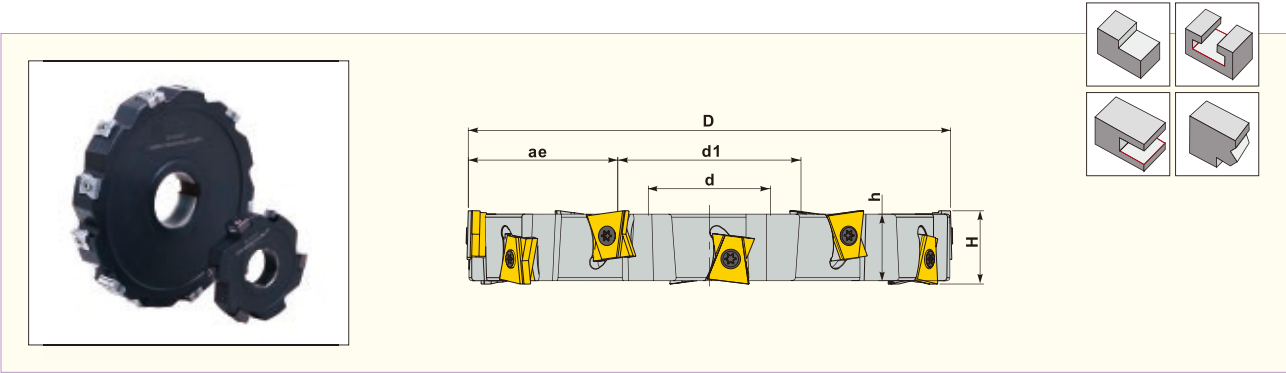
图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material					切削参数推荐 Cutting parameter		
		r	F	l		P	M	K	N	S	H	ap(mm)	fz(mm/z)
	APKT 1604TR-R4P 2235	0.8	1.8	17.3	重型 Heavy duty	●	●					6.00-14	0.1-0.2
	APKT 1604TL-M8P 2125 ⁽¹⁾	0.8	1.7	17.7	中型 Medium duty	●	●	●				6.00-14	0.08-0.15
	APKT 1604TR-M8K 2215	0.8	1.7	17.92	中型 Medium duty			●				6.00-14	0.08-0.15
	HM90 ADKT 1505TR-M8K 2215	0.8	2.16	16.18	中型 Medium duty			●				5.0-12.0	0.08-0.15
	HM90 ADKT 1505TR-M8P 2235	0.8	2.16	16.18	中型 Medium duty	●	●					5.0-12.0	0.08-0.15
	ADKT 1505TL-M8P 2125 ⁽¹⁾	0.8	1.6	15.7	中型 Medium duty	●	●	●				5.0-12.0	0.07-0.15

- (1) 左手刀片
- Insert for left handease use the coolant oil as far as possible.

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN11 三面刃铣刀

LN11 Side and Face Milling Cutter



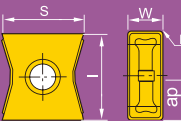
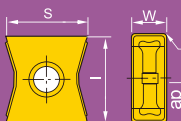
规格型号 Designation	D	H	ae	d	d1	h	Z	Kg	刀片型号 Insert	在庫 Stock
MSSB D080.B27.H18.Z06.LN11	80	18	20	27	40	16	2x3	0.75	LN..1106..	●
MSSB D100.B27.H18.Z08.LN11	100	18	30	27	40	16	2x4	1.13	LN..1106..	●
MSSB D125.B32.H18.Z10.LN11	125	18	39	32	46	16	2x5	1.67	LN..1106..	●
MSSB D160.B40.H18.Z12.LN11	160	18	50	40	60	16	2x6	2.82	LN..1106..	●
MSSB D200.B50.H18.Z14.LN11	200	18	55	50	90	16	2x7	4.50	LN..1106..	●

- 适配刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 订货示例：1 件 MSSB D080.B27.H18.Z06.LN11。
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC MSSB D080.B27.H18.Z06.LN11.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
LN..1106..	SR20 M3.5x11.5	KEY02 T10

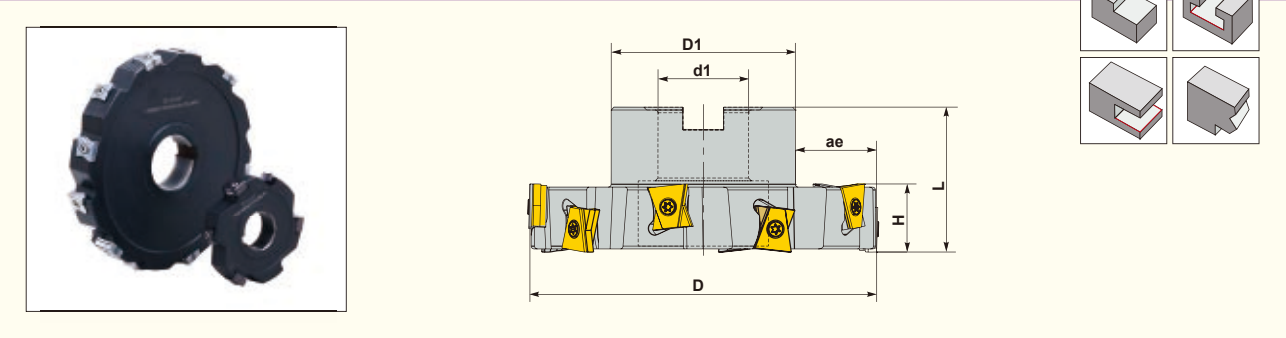
图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适适配加工材质 Material					切削参数推荐 Cutting parameter	
		W	l	S	r		P	M	K	N	S	H	ap(mm)
	LNKK 1106T-R4P 2230	6	11.16	11	0.8	重型 Heavy duty	●	●				1.5-5.0	0.17-0.25
	LNKK 1106T-R4K 2215	6	11.16	11	0.8	中型 Medium duty			●			1.5-5.0	0.15-0.20
	LNAR 1106F-M8N 2020	6	11.16	11	0.8	轻型 Light duty				●		1.5-5.0	0.15-0.20
	LNHT 1106TR-M8K 2215 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty			●			2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106TR-M8P 2235 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty	●	●				2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8K 2215 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty			●			2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8P 2235 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty	●	●				2-10 ⁽¹⁾	0.15-0.25

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm
- (2) 刀片有 4 个右手切削刃
- (3) 刀片有两个右手切削刃，两个左手切削刃
- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
- (2) There are 4 right hand cutting edges.
- (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN11 三面刃铣刀

LN11 Side and Face Milling Cutter



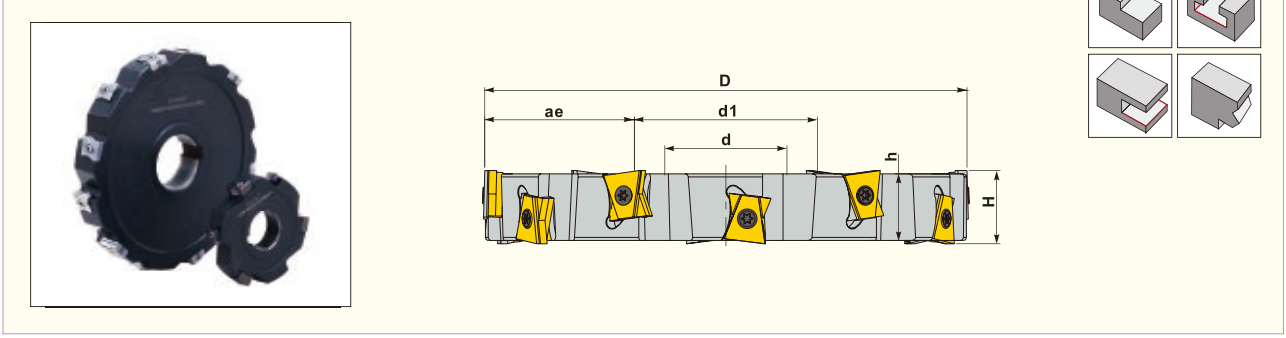
规格型号 Designation	D	D1	d1	H	L	ae	Z	Kg	刀片型号 Insert	在庫 Stock
MSSB D080.SEM22.H18.Z06.LN11	80	48	22	18	50	16	2x3	0.89	LN..1106..	☛
MSSB D100.SEM22.H18.Z08.LN11	100	48	22	18	50	26	2x4	1.88	LN..1106..	☛
MSSB D125.SEM27.H18.Z10.LN11	125	60	27	18	63	32	2x5	2.22	LN..1106..	☛
MSSB D160.SEM32.H18.Z12.LN11	160	78	32	18	63	41	2x6	3.82	LN..1106..	☛
MSSB D200.SEM40.H18.Z14.LN11	200	89	40	18	63	55	2x7	5.83	LN..1106..	☛

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：C31 页。
- 订货示例：1 件 MSSB D080.SEM22.H24.Z06.LN11。
- Insert should be ordered separately.
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC MSSB D080.SEM22.H24.Z06.LN11.

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN15 三面刃铣刀

LN15 Side and Face Milling Cutter



规格型号 Designation	D	H	ae	d	d1	h	Z	Kg	刀片型号 Insert	在庫 Stock
MSSB D080.B27.H24.Z06.LN15	80	24	20	27	40	21.8	2x3	0.64	LN..1506..	☛
MSSB D100.B27.H24.Z08.LN15	100	24	30	27	40	21.8	2x4	1.03	LN..1506..	☛
MSSB D125.B32.H24.Z10.LN15	125	24	39	32	46	21.8	2x5	1.57	LN..1506..	☛
MSSB D160.B40.H24.Z12.LN15	160	24	50	40	60	21.8	2x6	2.72	LN..1506..	☛
MSSB D200.B50.H24.Z14.LN15	200	24	55	50	90	21.8	2x7	4.32	LN..1506..	☛

- 刀片请根据不同材料单独订购。
- 加工不同材料刀具的切削参数，请参照：☛ C31 页。
- 订货示例：1 件 MSSB D080.B27.H24.Z06.LN15。
- Insert with different materials should be ordered separately.
- Recommended cutting data please see page C31.
- Ordering sample: 1 PC MSSB D080.B27.H24.Z06.LN15.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
LN..1106..	SR20 M3.5x11.5	KEY02 T10

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw
LN..1506..	SR20 M4x11.5	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适适配加工材质 Material	切削参数推荐 Cutting parameter	
		W	I	S	r			ap(mm)	fz(mm/z)
	LNKX 1106T-R4P 2230	6	11.16	11	0.8	重型 Heavy duty	● ●	1.5-5.0	0.17-0.25
	LNKX 1106T-R4K 2215	6	11.16	11	0.8	中型 Medium duty	●	1.5-5.0	0.15-0.20
	LNKX 1106F-M8N 2020	6	11.16	11	0.8	轻型 Light duty	●	1.5-5.0	0.15-0.20
	LNHT 1106TR-M8K 2215 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty	●	2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106TR-M8P 2235 ⁽²⁾	5.97	11.16	11	0.8	中型 Medium duty	● ●	2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8K 2215 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty	●	2-10 ⁽¹⁾	0.15-0.25
	LNHT 1106T-M8P 2235 ⁽³⁾	5.97	11.16	11	0.8	中型 Medium duty	● ●	2-10 ⁽¹⁾	0.15-0.25

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm
- (2) 刀片有 4 个右手切削刃
- (3) 刀片有两个右手切削刃，两个左手切削刃

- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
- (2) There are 4 right hand cutting edges.
- (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适适配加工材质 Material	切削参数推荐 Cutting parameter	
		W	I	S	r			ap(mm)	fz(mm/z)
	LNKX 1506T-M8K 2215	6	15	13.9	0.8	中型 Medium duty	●	2.0-7.0	0.20-0.30
	LNKX 1506T-R4P 2235	6	15	13.9	0.8	重型 Heavy duty	● ●	2.0-7.0	0.30-0.40
	LNKX 1506F-M8N 2020	6	15	13.9	0.8	轻型 Light duty	●	2.0-7.0	0.10-0.15
	LNMT 1506TR-M8K 2215 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty	●	3-12 ⁽¹⁾	0.15-0.25
	LNMT 1506TR-M8P 2235 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty	● ●	3-12 ⁽¹⁾	0.15-0.25
	LNMT 1506T-M8K 2215 ⁽³⁾	6	15	13.9	0.8	中型 Medium duty	●	3-12 ⁽¹⁾	0.15-0.25
								3-12 ⁽¹⁾	0.15-0.25

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm
- (2) 刀片有 4 个右手切削刃
- (3) 刀片有两个右手切削刃，两个左手切削刃

- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
- (2) There are 4 right hand cutting edges.
- (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

● 标准库存
Item in stock

● 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

● 标准库存
Item in stock

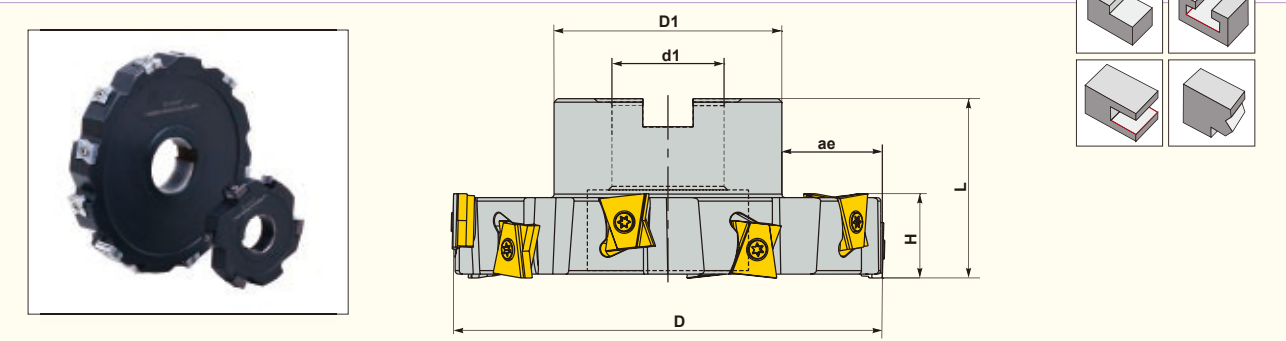
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Item of short delivery time
(please confirm delivery time when ordering it)

○ 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

SIDE AND FACE MILLING CUTTER 三面刃铣刀

LN15 三面刃铣刀

LN15 Side and Face Milling Cutter



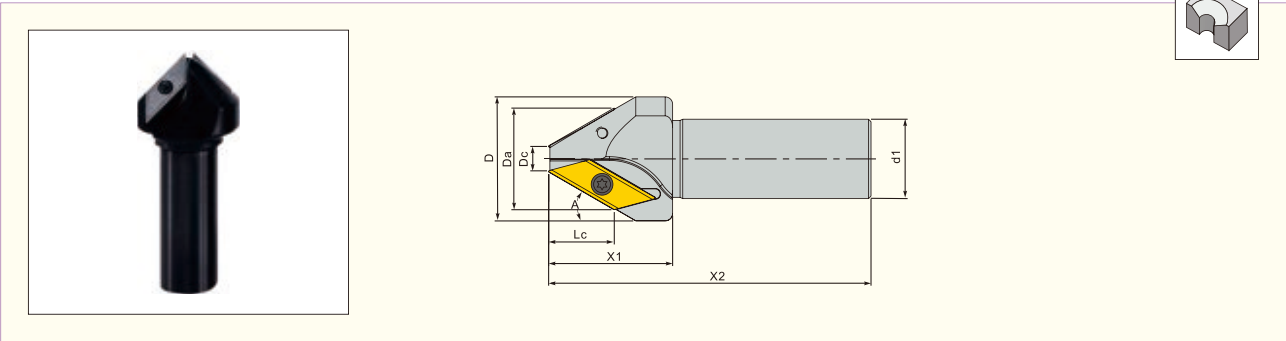
规格型号 Designation	D	D1	d1	H	L	ae	Z	Kg	刀片型号 Insert	在庫 Stock
MSSB D080.SEM22.H24.Z06.LN15	80	48	22	24	50	16	2x3	0.79	LN..1506..	●
MSSB D100.SEM22.H24.Z08.LN15	100	48	22	24	50	26	2x4	1.78	LN..1506..	●
MSSB D125.SEM27.H24.Z10.LN15	125	60	27	24	63	32	2x5	2.12	LN..1506..	●
MSSB D160.SEM32.H24.Z12.LN15	160	78	32	24	63	41	2x6	3.72	LN..1506..	●
MSSB D200.SEM40.H24.Z14.LN15	200	89	40	24	63	55	2x7	5.65	LN..1506..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 MSSB D080.SEM22.H24.Z06.LN15。
- Insert should be ordered separately.
- Ordering sample: 1 PC MSSB D080.SEM22.H24.Z06.LN15.

CHAMFERING MILLING CUTTER 可转位倒角刀

长刃倒角刀

Chamfering Cutter with Long Cutting Edge



规格型号 Designation	A	Da	Dc	D	d1	X1	X2	Lc	刀片数 Z	Kg	刀片型号 Insert	在庫 Stock
ME30XE D034.W32.Z01.31.130	30°	34	5	40	32	50	130	25.5	1	0.68	XCET 2204..	●
ME45XE D046.W32.Z02.31.130	45°	46	5	56	32	50	130	20.5	2	0.72	XCET 2204..	●
ME60XE D055.W32.Z02.31.130	60°	55	5	72	32	50	130	14.5	2	0.75	XCET 2204..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 ME30XE D034.W32.Z01.31.130。
- Insert should be ordered separately .
- Ordering sample: 1 PC ME30XE D034.W32.Z01.31.130.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for claming screw
LN..1506..	SR20 M4x11.5	KEY02 T15

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for claming screw
XCET 2204..	SR21 M5x12.8	KEY02 T20

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		W	l	S	r			ap(mm)	fz(mm/z)
	LNKX 1506T-M8K 2215	6	15	13.9	0.8	中型 Medium duty	●	2.0-7.0	0.2-0.3
	LNKX 1506T-R4P 2235	6	15	13.9	0.8	重型 Heavy duty	● ●	2.0-7.0	0.3-0.4
	LNAR 1506F-M8N 2020	6	15	13.9	0.8	轻型 Light duty	●	2.0-7.0	0.1-0.15

图例 Diagram	刀片型号 Insert	尺寸 Size				加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		W	l	S	r			ap(mm)	fz(mm/z)
	LNMt 1506TR-M8K 2215 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty	●	3-12 ⁽¹⁾	0.15-0.25
	LNMt 1506TR-M8P 2235 ⁽²⁾	6	15	13.9	0.8	中型 Medium duty	● ●	3-12 ⁽¹⁾	0.15-0.25
	LNMt 1506T-M8K 2215 ⁽³⁾	6	15	13.9	0.8	中型 Medium duty	●	3-12 ⁽¹⁾	0.15-0.25

- (1) 加工钢材时，最大切深 8mm，加工铸铁时，最大切深 10mm
 - (2) 刀片有 4 个右手切削刃
 - (3) 刀片有两个右手切削刃，两个左手切削刃
- (1) Maximum cutting depth is 8mm for steel and 10mm for cast iron.
 - (2) There are 4 right hand cutting edges.
 - (3) There are 2 right hand cutting edges and 2 left hand cutting edges.

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		l	s	r			ap(mm)	fz(mm/z)
	XCET 220404T-M8G 2230	22	4.5	0.4	中型 Medium duty	● ● ● ● ●	2.00-20.0	0.12-0.15

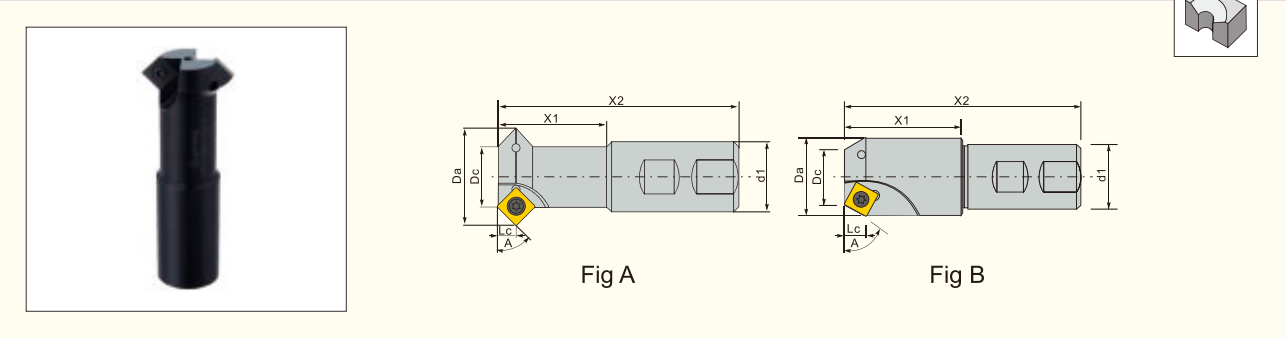
- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

- 标准库存
Item in stock
- 半标准库存 (订货时，请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时，请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CHAMFERING MILLING CUTTER 可转位倒角刀

杆式倒角刀

Chamfer Cutter with Cylindrical Shank



规格型号 Designation	A	Dc	Da	d1	X1	X2	Lc	刀片数 Z	Fig	Kg	刀片型号 Insert	在库 Stock
ME30SC D012.W16.Z01.12.100	30°	12	32	16	50	98	7	1	B	0.17	SC..1204..	●
ME30SC D028.W32.Z02.12.120	30°	28	48	32	60	120	7	2	B	0.70	SC..1204..	●
ME45SD D006.W16.Z01.09.90	45°	6	16	16	40	90	6	1	B	0.12	SD..0903..	●
ME45SD D012.W16.Z01.09.100	45°	12	23	16	52	100	6	1	A	0.12	SD..0903..	●
ME45SD D020.W20.Z02.09.100	45°	20	31	20	50	100	6	2	A	0.23	SD..0903..	●
ME45SC D028.W32.Z02.12.120	45°	28	44	32	60	120	7	2	A	0.64	SC..1204..	●
ME60SC D012.W16.Z01.12.100	60°	11	22	16	52	100	9	1	B	0.18	SC..1204..	●
ME60SC D020.W20.Z01.12.100	60°	20	31	20	50	100	9	1	B	0.32	SC..1204..	●
ME60SC D028.W32.Z02.12.120	60°	28	39	32	60	120	9	2	B	0.77	SC..1204..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 ME30SC D012.W16.Z01.12.100。
- Insert should be ordered separately.
- Ordering sample: 1 PC ME30SC D012.W16.Z01.12.100.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for claming screw
SC..1204..	SR21 M5x12.8	KEY02 T20
SD..0903..	SR20 M4x7.8	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size			加工类型 Machine type	适配加工材质 Material	切削参数推荐 Cutting parameter	
		l	s	d			ap(mm)	fz(mm/z)
	SDMT 0903T-M8N 2020	5.6	3.18	9.53	中型 Medium duty	●	5.0-12.0	0.08-0.15
	SDMT 0903T-M8P 2125	5.6	3.18	9.53	中型 Medium duty	● ● ●	5.0-12.0	0.08-0.15

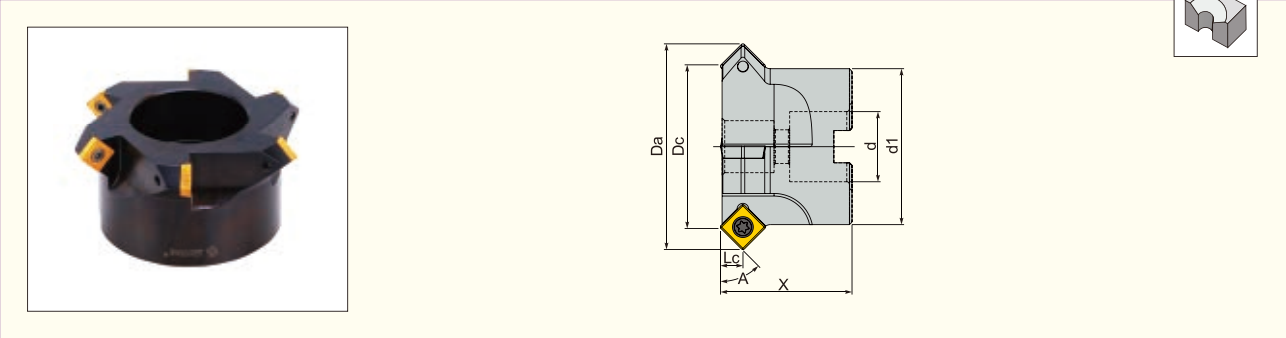
图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	r	s	d1		VC(m/min)	ap(mm)	f(mm/rev)
	SCMT 120408-M2P 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2M 2210	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2K 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCGT 120408-F9N 2020	12.7	0.8	4.76	5.5	●	200-300	0.5-3.0	0.15-0.30

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

CHAMFERING MILLING CUTTER 可转位倒角刀

盘式倒角刀

Face Chamfering Cutter



规格型号 Designation	A	Dc	Da	d	d1	X	Lc	刀片数 Z	Kg	刀片型号 Insert	在库 Stock
MF45SC D040.B16.Z03.12.40	45°	40	56	16	38	40	7	3	0.26	SC..1204..	●
MF45SC D050.B22.Z04.12.40	45°	50	66	22	48	40	7	4	0.37	SC..1204..	●
MF45SC D063.B27.Z04.12.50	45°	63	79	27	60	50	7	4	0.75	SC..1204..	●
MF45SC D080.B32.Z05.12.50	45°	80	96	32	78	50	7	5	1.17	SC..1204..	●
MF45SC D100.B40.Z06.12.60	45°	100	116	40	89	60	7	6	1.93	SC..1204..	●

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 MF45SC D040.B16.Z03.12.40。
- Insert should be ordered separately.
- Ordering sample: 1 PC MF45SC D040.816.Z03.12.40.

备件

Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for claming screw
SC..1204..	SR21 M5x12.8	KEY02 T20

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	r	s	d1		VC(m/min)	ap(mm)	f(mm/rev)
	SCMT 120408-M2P 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2M 2210	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCMT 120408-M2K 1115	12.7	0.8	4.76	5.5	●	200-300	0.5-2.5	0.1-0.30
	SCGT 120408-F9N 2020	12.7	0.8	4.76	5.5	●	200-300	0.5-3.0	0.15-0.30

- 标准库存
Item in stock
- 半标准库存 (订货时, 请确认交货期)
Item of short delivery time
(please confirm delivery time when ordering it)
- 无库存 (订货时, 请确认交货期)
Order on demand
(please confirm delivery time when ordering it)

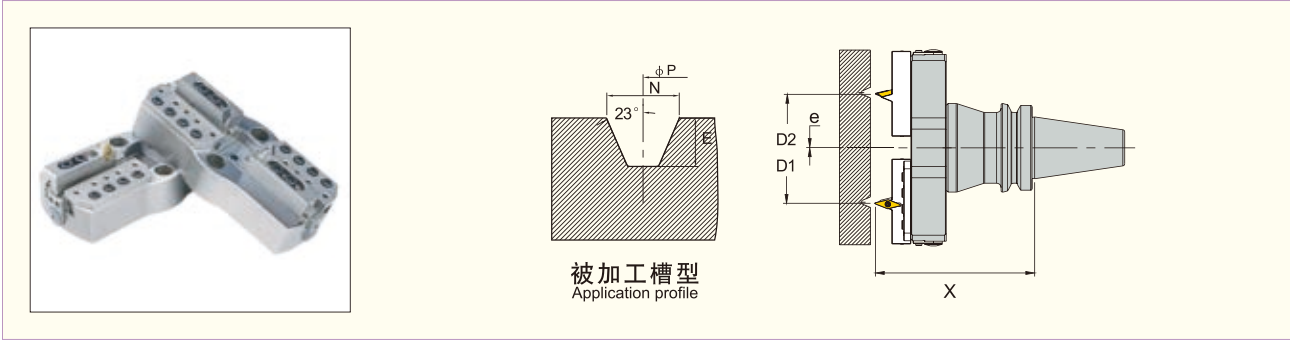
API RING GROOVING CUTTER 可调式端面槽铣刀

可调式端面槽铣刀

API Ring Grooving Cutter

松德可调式端面槽刀吸取国外端面槽刀优点，并结合实际加工工艺需要，设计的一款可内、外径进行粗调及精调合二为一的端面槽铣刀。操作简单，实用性强，两处微调机构，微调精度每格直径 0.01mm，使用范围广等特点，需配内、外径刀座。

For API ring groove machining both rough and finish. Inside cartridge and outside cartridge can be adjusted separately with 0.01mm on diameter per scale, wide diameter range, high accuracy and easy operating.



规格型号 Designation	槽型 P 值范围 P value	X	E	适配内径刀座 ID cartridge	适配外径刀座 OD cartridge	Kg	在庫 Stock
BT40 MSD215x100	45-114	140	<18	L23N P43-112.H18.VC16	L23W P47-116.H18.VC16	8.21	●
BT40 MSD215x100	106-138	140	<18	L23N P104-136.H18.VC16	L23W P108-140.H18.VC16	8.21	●
BT40 MSD215x100	129-227	140	<18	L23N P127-225.H18.VC16	L23W P131-229.H18.VC16	8.21	●
BT50 MSD215x140	45-114	180	<18	L23N P43-112.H18.VC16	L23W P47-116.H18.VC16	12.61	●
BT50 MSD215x140	106-138	180	<18	L23N P104-136.H18.VC16	L23W P108-140.H18.VC16	12.61	●
BT50 MSD215x140	129-227	180	<18	L23N P127-225.H18.VC16	L23W P131-229.H18.VC16	12.61	●
DIN69871 50 MSD215x140	45-114	180	<18	L23N P43-112.H18.VC16	L23W P47-116.H18.VC16	12.31	●
DIN69871 50 MSD215x140	106-138	180	<18	L23N P104-136.H18.VC16	L23W P108-140.H18.VC16	12.31	●
DIN69871 50 MSD215x140	129-227	180	<18	L23N P127-225.H18.VC16	L23W P131-229.H18.VC16	12.31	●

- 适配刀座需单独订购，请参照： C28 页。
- 如没有匹配的刀体，需提供机床对应的刀柄大小非标订制刀体。
- 订货示例：1 件 BT50 MSD215x140.
- The suitable cartridge should be ordered separately, please see page C28.
- If you want main body with other sizes, please advise the specification of machine tool so that we could manufacture the customer designed tools.
- Ordering sample: 1 PC BT50 MSD215x140.

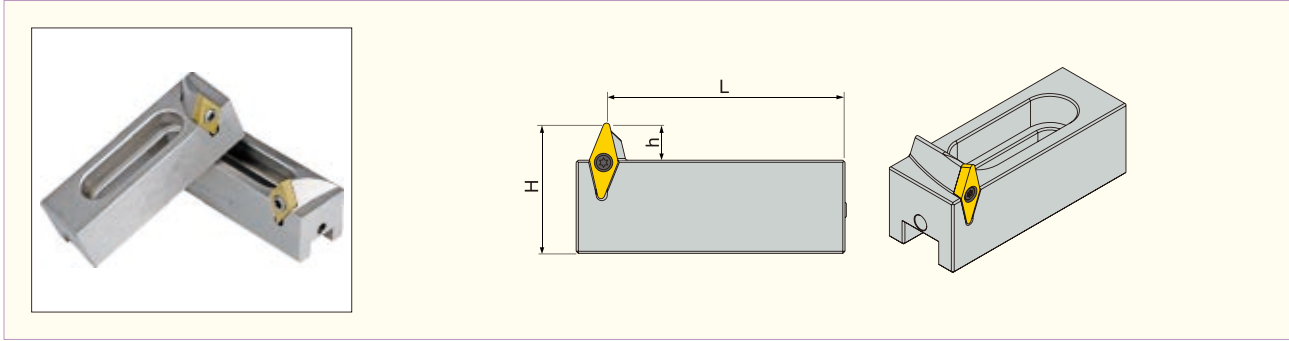
API RING GROOVING CUTTER 可调式端面槽铣刀

可调式端面槽铣刀刀座

The Cartridges for Adjustable API Ring Groover

适配可调式端面槽刀刀体任意规格，安装方便，调整自如、稳定，内外径刀座一一对应。

It is suitable for any size of main body, and it can be assembled freely and stably. The ID and OD are one-to-one correspondence and with different inserts.



刀座型号 Designation	L	H	h	刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for clamping screw	Kg	在庫 Stock
L23N P43-112.H18.VC16	65.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.19	●
L23N P104-136.H18.VC16	48	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.26	●
L23N P127-225.H18.VC16	62.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.20	●
L23W P47-116.H18.VC16	63.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.19	●
L23W P108-140.H18.VC16	46	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.26	●
L23W P131-229.H18.VC16	64.5	40	18.5	VCMT 160408	SR21 M4x11	KEY02 T15	0.20	●

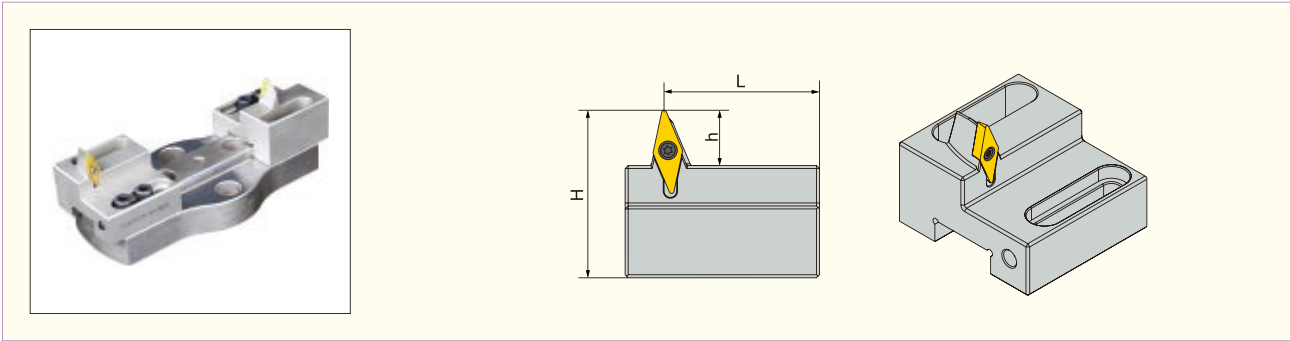
- 刀片请根据不同材料单独订购。
- 订货示例：1 件 L23N P43-112.H18.VC16.
- Insert with different materials should be ordered separately.
- Ordering sample: 1 PC L23N P43-112.H18.VC16.

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	d	S	r		VC(m/min)	ap(mm)	f(mm/rev)
	VCMT 160408-M2P 2125	16.6	9.525	4.76	0.8	●	120-280	1.00-3.50	0.15-0.40
	VCMT 160408-M2M 1225	16.6	9.525	4.76	0.8	●	80-180	0.50-2.50	0.08-0.30
	VCMT 160408-M2K 1115	16.6	9.525	4.76	0.8	●	150-350	0.50-2.50	0.08-0.30

API RING GROOVING CUTTER 可调式端面槽铣刀

简易可调式槽铣刀刀座
Simple Adjustable Cartridge

适配粗镗刀体及桥式刀体上，安装方便。
刀座可进行粗调整，操作简单，实用性强，内外径刀座——对应
It is suitable for large diameter rough boring tool body, which is easy to be assembled.
It can be rough adjusted and easy to be operated. The 10 and 00 are one-to-one correspondence.



刀座型号 Designation	L	H	h	刀片型号 Insert	Kg	P 值范围 P value	适配刀体 Main body	在庫 Stock
R23N P45-65.H18.VC16	46.5	40	18.5	VCMT 160408	0.17	45-60	BR D070-090.E63.75	☐
R23W P45-65.H18.VC16				VCMT 160408	0.69	60-108	SNL 150-210..	☐
R23N P56-108.H18.VC16				VCMT 160408	0.69	104-155	SNL 150-210..	☐
R23W P56-108.H18.VC16	52	56	18.5	VCMT 160408	0.69	155-175	SNL 210-290	☐
R23N P104-156.H18.VC16				VCMT 160408	0.69	175-220	SNL 210-290	☐
R23W P104-156.H18.VC16				VCMT 160408	0.69			☐

- 刀片请根据不同材料单独订购。
- 订货示例：1 件 R23N P45-65.H18.VC16。
- Insert should be ordered separately.
- Ordering sample: 1 PC R23N P45-65.H18.VC16.

备件
Spare Parts

刀片型号 Insert	刀片锁紧螺钉 Clamping screw for insert	锁紧扳手 Allen key for claming screw
VCMT 160408	SR21 M4x11	KEY02 T15

图例 Diagram	刀片型号 Insert	尺寸 Size				适配加工材质 Material	切削参数推荐 Cutting parameter		
		l	d	S	r		VC(m/min)	ap(mm)	f(mm/rev)
	VCMT 160408-M2P 2125	16.6	9.525	4.76	0.8	●	120-280	1.00-3.50	0.15-0.40
	VCMT 160408-M2M 1225	16.6	9.525	4.76	0.8	●	80-180	0.50-2.50	0.08-0.30
	VCMT 160408-M2K 1115	16.6	9.525	4.76	0.8	●	150-350	0.50-2.50	0.08-0.30

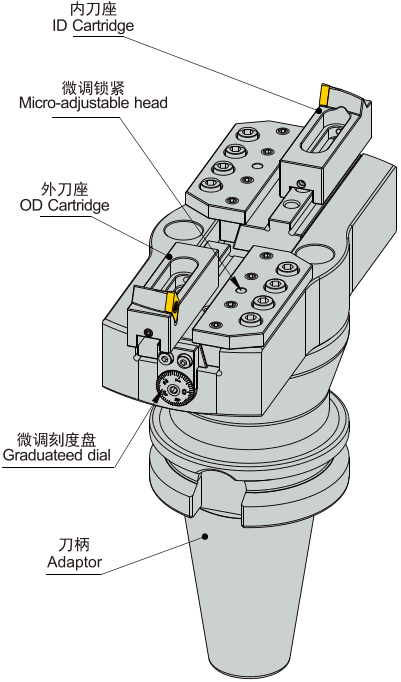
API RING GROOVING CUTTER 可调式端面槽铣刀

可调端面槽铣刀使用说明
The Instruction Manual for API Ring Groover

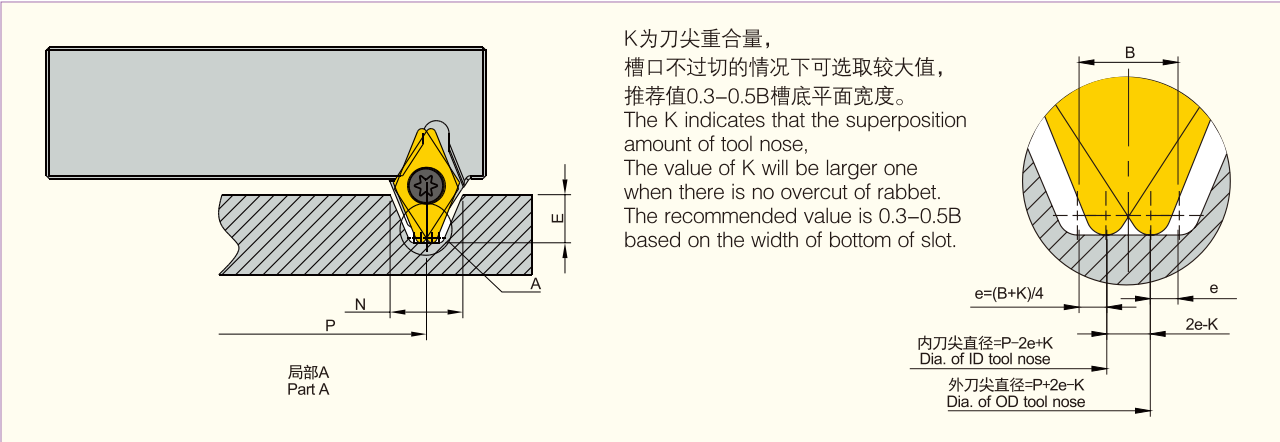
微调端面槽刀组成部分
Components of the API Ring Groover

- 刀体包括刀柄、刀桥及两端微调机构
- 外径刀座
- 内径刀座
- The main body includes tool holder, connection, and the two micro-adjustable head
- OD cartridge
- IDcartridgecorrespondence.

- 特点：
- 适用于石油阀门类 API 标准的端面密封槽铣削加工；
 - 解决了由传统工艺无法达到加工要求或不能加工密封槽等问题；
 - 一把刀具配备不同的内外径刀座，可覆盖 API 标准全系列槽的加工；
 - 两端带有微调机构，调整精度 0.01mm/ 格；
 - 加工效率高，加工稳定性好；
- Features:
- 1t is suitable for machining the API ring groove.
 - 1t can solve the polished problem of other brands API ring groover could not do.
 - One tool body plus 3 sets ID & OD cartridges could machine all the grooves with API standard.
 - 1t can be micro adjusted, and the dial each of which is 0.01 mm on diameter.
 - Higher performance and higher stability.



刀具粗调整尺寸计算方法示意
The Diagram for Calculation Method of Rough Adjustable Dimension



加工方法
Processing Method

一般采用螺旋插补铣锥孔的方法，最小插补半径按“e”编程，半锥角按 23° 计算编程。
The general method is helix interpolation and milling for taper hole. The mini dia. of interpolation should be programmed as "e" and the half taper angle should be calculated as 23°

TECHNICAL INFORMATION 技术资料

铣削加工
Milling

规格型号 Designation	旧符号 Old symbol	新符号 New symbol	单位 Units
切削速度 Cutting speed	Vc	V	m/min
进给速度 Feed speed	Vf	F	mm/min
每齿进给量 Single edge feed	fz	f	mm/ 齿
进给量 Feeds	f	f	mm/rev
刀 数 Tooth number	Z	Z	(枚)
轴方向切深 Axial cutting depth	ap	d	mm
半径方向切深 Radius cutting depth	ae	W	mm
大进给 Deep feed	Pf	Pf	mm
切削动力 Cutting power	Pc	PKw	KW
比较切削阻力 Comparative cutting resistance	Kc	Ks	MPa
切屑排出量 Chips	Q	Q	cm³/min
转速 Spindle speed	n	N	min ⁻¹

TECHNICAL INFORMATION 技术资料

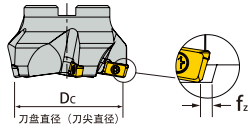
铣削加工
Milling

根据切削参数符号变更，依次有如下变更
Symbols of the cutting parameter were changed, see the following list

● 切削速度

$$Vc = \frac{\pi \times Dc \times n}{1,000}$$

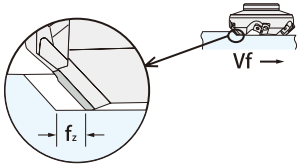
Vc：切削速度 [m/min]
Dc：刀盘直径 [mm]
n：主轴转速 [min⁻¹]



● 工作台进给量与每齿进给量

$$fz = \frac{Vf}{Z \times n}$$

fz：每齿进给量 (mm/齿)
Vf：工作台进给速度 [mm/min]
Z：刀盘刃数 [片]
n：主轴转速 [min⁻¹]



● 所需动力

$$Pc = \frac{Ks \times Q}{6,120 \times \eta} = \frac{Ks \times ae \times Vf \times ap}{6,120,000 \times \eta}$$
$$= \frac{Ks \times ae \times fz \times Z \times n \times ap}{6,120,000 \times \eta}$$

Pc：所需动力 [kW]
P_{HP}：所需动力 (马力) [HP]
ae：切削宽度 [mm]
Vf：工作台进给速度 [mm/min]
fz：每刀进给量 [mm/t]
Z：刀盘刃数 [片]
n：主轴转速 [min⁻¹]
ap：切深 [mm]
Ks：比切削阻力值 [kgf/mm²]
η：机械效率 (0.7~0.8)
Q：切屑排出量 [cm³/min=cc/min]

Ks的大概值	
软钢	190
中碳钢	210
高碳钢	240
低合金钢	190
高合金钢	245
铸铁	93
可锻铸铁	120
青铜 / 黄铜	70

● 切屑排出量

$$Q = \frac{ae \times Vf \times ap}{1,000} = \frac{ae \times fz \times Z \times n \times ap}{1,000}$$

Q：切屑排出量 [cm³/min=cc/min]
ae：切削宽度 [mm]
Vf：工作台进给速度 [mm/min]
fz：每刀进给量 [mm/t]
Z：刀盘刃数 [片]
n：主轴转速 [min⁻¹]
ap：切深 [mm]

● 加工时间

$$T = \frac{60 \times L'}{Vf} = \frac{60 \times L'}{fz \times Z \times n}$$

T：加工时间 [秒]
L'：工作台的总进给长度 [mm]
(= L + Ds + 2 α)
L：被加工材料的长度 [mm]
Ds：刀盘直径 [mm]
α：多余距离 [mm]
Vf：工作台进给速度 [mm/min]
fz：每刀进给量 [mm/t]
Z：刀盘刃数 [片]
n：主轴转速 [min⁻¹]

