

金属切削刀具样本图册



GRD TT®



圣人言：

“工欲善其事，必先利其器”

“没有金刚钻，别揽瓷器活”



致客户：

把您放在最重要的位置，
不曾用心表达我的情感。
我们之间离得越来越近，
心与心的链接才有力量，
心里干净才能行稳致远！



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切断与切槽

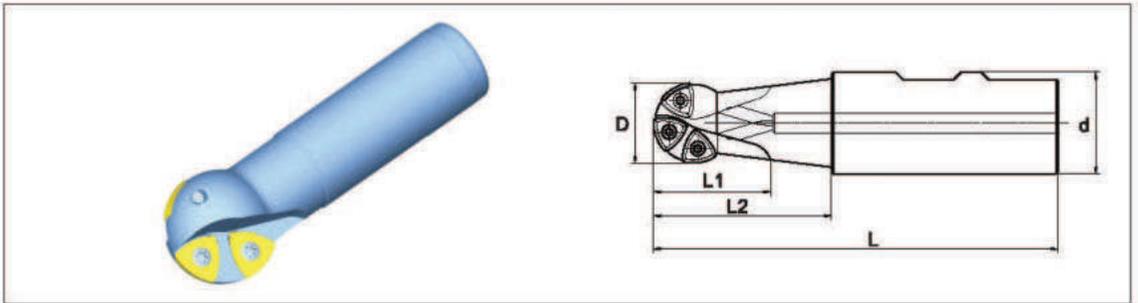
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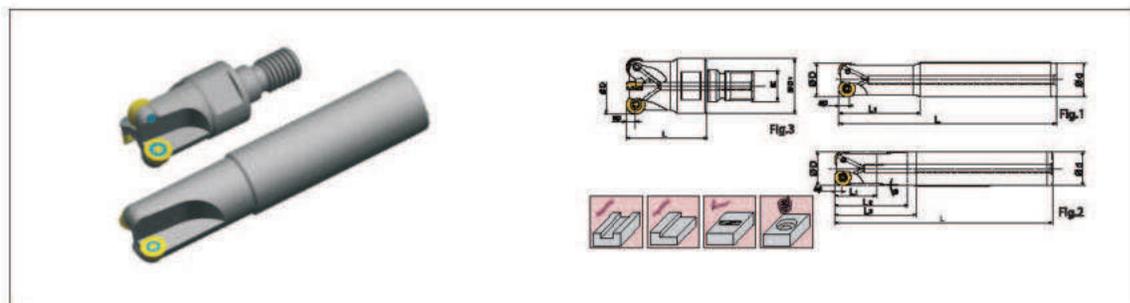
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸Dimension (mm)					
			D	d	L	L1	L2	ap
GRD 2516-15.7	BELT 16	2	15.70	25	90	20	34	7.9
GRD 2516-16.0		2	16.00	25	90	20	34	8.0
GRD 2516-16.7		2	16.70	25	90	20	34	8.4
GRD 2516-17.6		2	17.60	25	90	20	34	8.8
GRD 2520-19.6	BELT 20	2	19.60	25	100	25	44	9.8
GRD 2520-20.0		2	20.00	25	100	25	44	10.0
GRD 2520-20.25		2	20.25	25	100	25	44	10.1
GRD 2520-22.6		2	22.60	25	100	25	44	11.3
GRD 2520-22.8	BELT 25	2	22.80	25	100	25	44	11.4
GRD 2525-24.6		2	24.60	25	100	30	44	12.3
GRD 2525-25.0		2	25.00	25	100	30	44	12.5
GRD 2525-25.2		2	25.20	25	100	30	44	12.6
GRD 2525-25.7		2	25.70	25	100	31	44	12.9
GRD 2525-26.6		2	26.60	25	100	32	44	13.3
GRD 2525-27.2		2	27.20	25	100	33	44	13.6
GRD 2525-28.7		2	28.70	25	100	34	44	14.4
GRD 2530-30.0	BELT 30	2	30.00	25	110	40	54	15.0
GRD 2530-31.2		2	31.20	25	110	40	54	15.6
GRD 2532-31.7	BELT 32	2	31.70	25	110	40	54	15.9
GRD 2532-32.0		2	32.00	25	110	40	54	16.0
GRD 2532-32.7		2	32.70	25	110	40	54	16.4
GRD 2532-33.7		2	33.70	25	110	40	54	16.9
GRD 2532-34.7		2	34.70	25	110	40	54	17.4

产品展示
product display



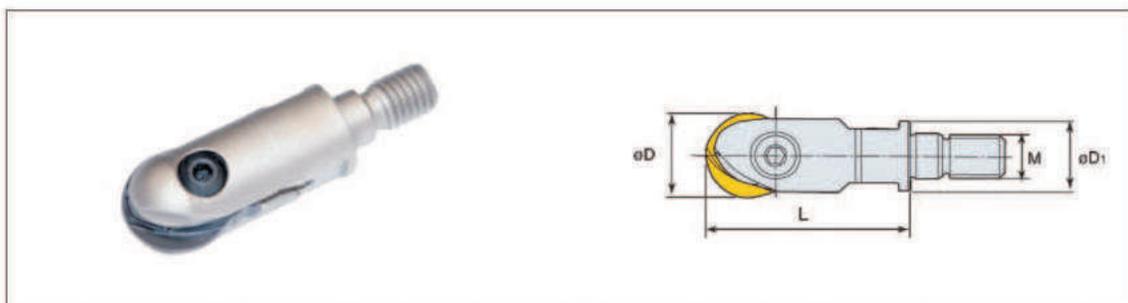
以上刀具可根据客户需求非标定制。

These tools can be based on customer needs non-standard customization.



TRD/TRY

规格型号 Model No.	刀片 Insert	R	齿数 Z	尺寸Dimension (mm)								图 Fig
				D	d	L	L1	L2	L3	a	ap	
TRD 108-W10-05	RPEX 0501□□	2.5	1	8	10	80	20	-	-	-	2.5	1
TRD 210-W12-05		2.5	2	10	12	80	30	-	-	-	2.5	1
TRD 212-W12-05		2.5	2	12	12	100	40	-	-	-	2.5	1
TRD 212-16-05-L		2.5	2	12	16	200	20	34	60	2	2.5	3
TRD 215-W20-07	RPEX 0702□□	3.5	2	15	20	140	40	-	-	-	3.5	1
TRD 215-20-07-L		3.5	2	15	20	200	25	34	60	3.5	3.5	3
TRD 217-16-07-L160		3.5	2	17	16	160	25	-	-	-	3.5	1
TRD 217-16-07-L200		3.5	2	17	16	200	25	-	-	-	3.5	1
TRY 216-W20-08-L	RPMX 08/10/12/16 RXHX 10/12/16□□ RMXE 20□□	4	2	16	20	110	25	45	55	4.1	4	2
TRY 320-W20-08		4	3	20	20	150	40	-	-	-	4	1
TRY 425-W25-08		4	4	25	25	150	40	-	-	-	4	1
TRY 532-W32-08		4	5	32	32	160	60	-	-	-	4	1
TRY 220-25-10-L		5	2	20	25	250	36	60	80	3.5	5	3
TRY 220-W20-10		5	2	20	20	160	60	-	-	-	5	1
TRY 221-20-10-L200		5	2	21	20	200	30	-	-	-	5	2
TRY 225-32-10-L		5	2	25	32	250	36	53	80	5.0	5	3
TRY 225-W25-10		5	2	25	25	160	60	-	-	-	5	1
TRY 325-W25-10		5	3	25	25	160	60	-	-	-	5	1
TRY 226-25-10-L200		5	2	26	25	200	30	-	-	-	5	2
TRY 432-W32-10		5	4	32	32	160	60	-	-	-	5	1
TRY 225-W25-12		6	2	25	25	160	60	-	-	-	6	1
TRY 232-32-12-L		6	2	32	32	250	50	-	-	-	6	1
TRY 332-W32-12		6	3	32	32	160	64	-	-	-	6	1
TRY 332-W32-12-S		6	3	32	32	105	35	-	-	-	6	1
TRY 340-W32-12		6	3	40	32	160	50	-	-	-	6	1
TRY 340-W32-12-S		6	3	40	32	105	35	-	-	-	6	1
TRY 440-W32-12		6	4	40	32	150	35	-	-	-	6	1
TRY 440-W32-12-S		6	4	40	32	105	35	-	-	-	6	1
TRY 240-W32-16		8	2	40	32	160	50	-	-	-	8	1
TRY 350-32-20		10	3	50	32	160	50	-	-	-	10	3
TRY 350-40-20		10	3	50	40	200	60	-	-	-	10	3



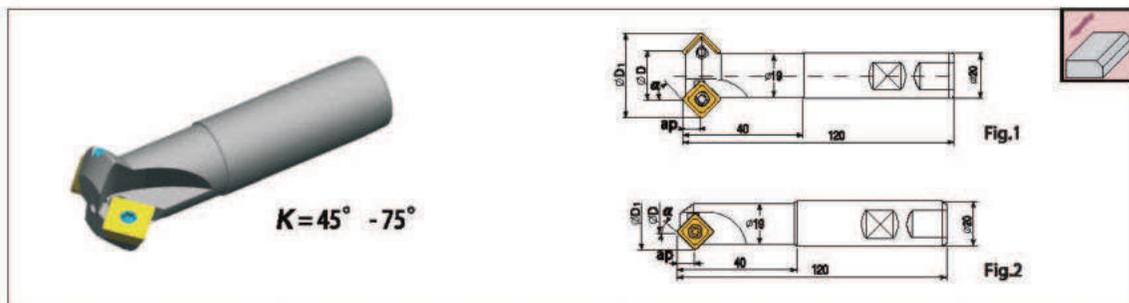
规格型号 Model No.	刀片 Insert	尺寸 Dimension (mm)			
		D	D1	L	M
BNGB 100-M06	GB 100F	10	9.7	23	6
BNGB 120-M06	GB 120F	12	11.8	30	6
BNGB 120-M08	GB 120F	12	13	30	8
BNGB 160-M08	GB 160F	16	15.5	38	8
BNGB 200-M10	GB 200F	20	19.5	43	10
BNGB 250-M12	GB 250F	25	24.5	48	12
BNGB 300-M16	GB 300F	30	29.5	55	16
BNGB 320-M16	GB 320F	32	31.5	55	16

刀片 Insert

形状 Shape	主要牌号 Main Grade		
 GB100/120/160/200/250/300F	钢 Steel 铸铁 Cast Iron	GD 1918 GD 1783 GD 1614	
		Gd1368	

配件明细 Components

型号	螺钉 Screw	扳手 Wrench
GB 100F	TS 30F100	TD 10
GB 120F	TS 40F120	TD 15
GB 160F	TS 50F160	L-W3
GB 200F	TS 60F200	L-W3
GB 250F	TS 70F250	T-W4
GB 300F GB 320F	TS 80F300	T-W4



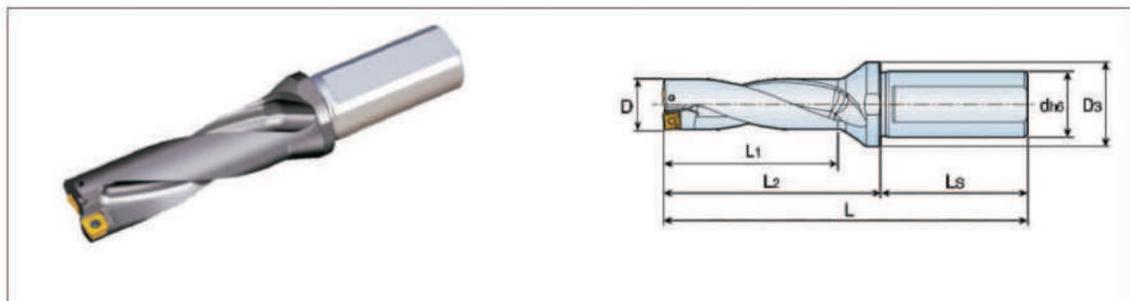
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)				图 Fig.	应用范围 Application Range(mm)
			α	D	D1	a_p		
GCF15-D25-11	GPGM 110408	2	15°	25	30.5	10.1	1	26.3-30.0
GCF30-D25-11		2	30°	25	35.5	8.9	1	26.3-34.0
GCF45-D07-11		1	45°	7	21.9	7.2	2	8.3-20.9
GCF45-D19-11		2	45°	19	33.9	7.2	1	20.3-32.9
GCF45-D25-11		3	45°	25	39.9	7.2	1	26.3-38.9

刀片 Insert

形状 Shape		主要牌号 Main Grade		
 GPGM	 GPGT	钢 Steel Gd1798	铸铁 Cast Iron Gd1368	

配件明细 Components

 GCF -11	螺钉 Screw	扳手 Wrench
	 Ls400931	 Td15



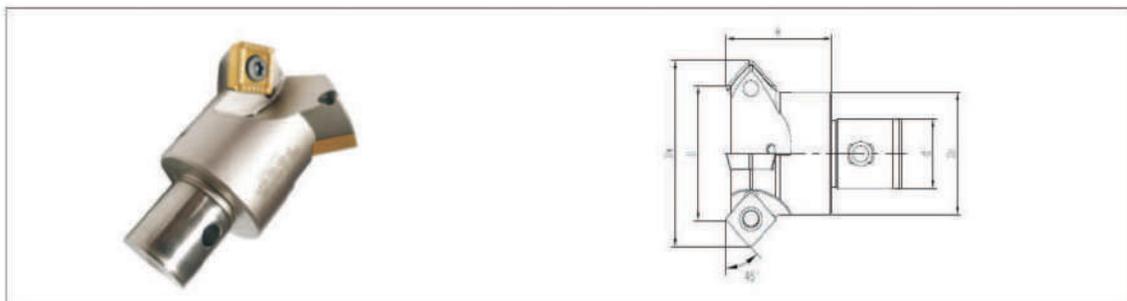
TZDP

订货号 Order Number	转矩 (N.cm)	尺寸 Dimension (mm)								刀片 Insert
		D	L1/D	d	D3	L	L1	L2	Ls	
TZDP 3167-06-252	80-100	16.7	3	25	32	127	50.1	71	56	DPDM 060204 PD
TZDP 3222-07-252	100-120	22.2	3	25	32	145	66.6	89	56	DPDM 070306 PD
TZDP 5222-07-252	100-120	22.2	5	25	32	189	111	133	56	DPDM 070306 PD
TZDP 3254-08-252	100-120	25.4	3	25	32	153	76.2	97	56	DPDM 070306 PD
TZDP 4254-08-252	100-120	25.4	4	25	32	178	101.6	122	56	DPDM 070306 PD
TZDP 5282-09-322	300-340	28.2	5	32	40	223	140	163	60	DPDM 09T308 PD
TZDP 4286-09-322	300-340	28.6	4	32	40	199	114.4	139	60	DPDM 09T308 PD
TZDP 4318-11-322	300-340	31.8	4	32	40	211	127.2	151	60	DPDM 11T308 PD
TZDP 4349-11-402	300-340	34.9	4	40	50	233	139.6	163	70	DPDM 11T308 PD
TZDP 4371-13-402	450-520	37.1	4	40	50	246	148.4	176	70	DPDM 130408 PD
TZDP 4381-13-402	450-520	38.1	4	40	50	250	152.4	180	70	DPDM 130408 PD
TZDP 4413-13-402	450-520	41.3	4	40	50	262	165.2	192	70	DPDM 130408 PD
TZDP 4429-13-402	450-520	42.9	4	40	50	270	171.6	200	70	DPDM 130408 PD
TZDP 4445-15-402	800-1000	44.5	4	40	60	285	178	215	70	DPDM 150510 PD
TZDP 4476-15-402	800-1000	47.6	4	40	60	297	190.4	227	70	DPDM 150510 PD
TZDP 4508-15-402	800-1000	50.8	4	40	60	309	203.2	239	70	DPDM 150510 PD



牌号: GD1573/1798

订货号 Order Number	尺寸 Dimension (mm)				螺钉 (Screw)
	d	t	R	d1	
DPDM 050204 PD	4.9	2.38	0.4	2.25	L 20043L/HG-P
DPDM 060204 PD	5.7	2.38	0.4	2.60	L 22052L/HG-P
DPDM 070306 PD	6.8	2.80	0.6	2.60	L 22052L/HG-P
DPDM 08T306 PD	7.9	3.97	0.6	2.85	SO 25065L
DPDM 09T308 PD	9.2	3.97	0.8	3.80	L 35088L
DPDM 11T308 PD	11.0	3.97	0.8	3.80	L 35088L
DPDM 130408 PD	12.8	4.40	0.8	4.40	L 40093L
DPDM 150510 PD	15.0	4.80	1.0	5.40	L 50115L



规格型号 Model No.	刀片 Insert	尺寸Dimension(mm)					齿数 Z	重量 Kg
		D	D1	D2	d	H		
GCF45-D16-CK1-12	SP..12040 8	16	32	19	11	31.5	1	0.15
GCF45-D30-CK3-12		30.0	46.0	31.0	18.0	41.5	3.0	0.2
GCF45-D43-CK4-12		43	59	39	22	36.5	4	0.35
GCF45-D52-CK5-12		52.0	68.0	50.0	28.0	40.0	5.0	0.8
GCF45-D66-CK6-12		66	82	64	36	41	6	0.95

刀片 Insert

形状 Shape	主要牌号 Main Grade	
	钢 Steel	GD5112
	铸铁 Cast Iron	GD5331
	不锈钢 tainless Steel	GD5223

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M5*11	T20



规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)				重量 weight (Kg)	
			D	d	H	ap		
GFWN 450-22R-9008	WNEX 0806	4	50	22	-	45	6	0.4
GFWN 563-22R-9008		5	63	22	-	45	6	0.8
GFWN 680-27R-9008		6	80	27	25.4	50	6	1.2
GFWN 8100-32R-9008		8	100	32	31.75	50	6	1.9
GFWN 10125-40R-9008		10	125	40	38.1	63	6	3.4
GFWN 12160-40R-9008		12	160	40	50.8	63	6	5.1
GFWN 16200-60R-9008		16	200	60	50.8	63	6	7.5

刀片 Insert

形状 Shape	主要牌号 Main Grade		
	钢 Steel	GD4120	
	铸铁 Cast Iron	GD4310	
	铝合金 Aluminum	GD4410	

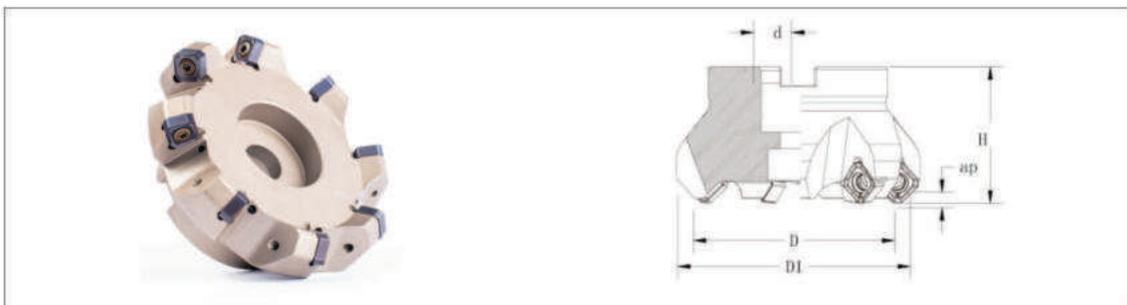
配件明细 Components

	螺钉 Screw	扳手 Wrench	
		M4	

产品展示
product display

以上刀具可根据客户需求非标定制。

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规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					重量 Weight(Kg)
			D	D1	d	H	ap	
GFSN-550-22R-4512	SNMU 1205	4	50	60.4	22	40	4	0.4
GFSN-663-22R-4512		6	63	73.4	22	40	4	0.5
GFSN-780-27R-4512		7	80	90.4	27	50	4	1
GFSN-8100-32R-4512		8	100	110.4	32	50	4	2
GFSN-10125-40R-4512		10	125	135.6	40	63	4	2.8
GFSN-12160-40R-4512		12	160	170.6	40	63	4	3.7
GFSN-16200-60R-4512		16	200	210.6	60	63	4	7
GFSN-20250-60R-4512		20	250	260.6	60	63	4	10.4
GFSN-24315-60R-4512		24	315	325.6	60	63	4	18.3

刀片 Insert

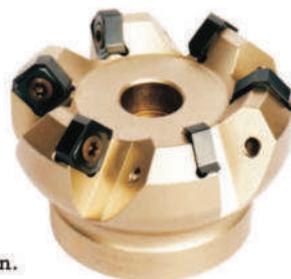
形状 Shape	主要牌号 Main Grade		
 SNMU 1205	钢 Steel	GD5968 GD5918	
	铸铁 Cast Iron	GD1368 GD1360	
	不锈钢 Stainless Steel	GD4210	

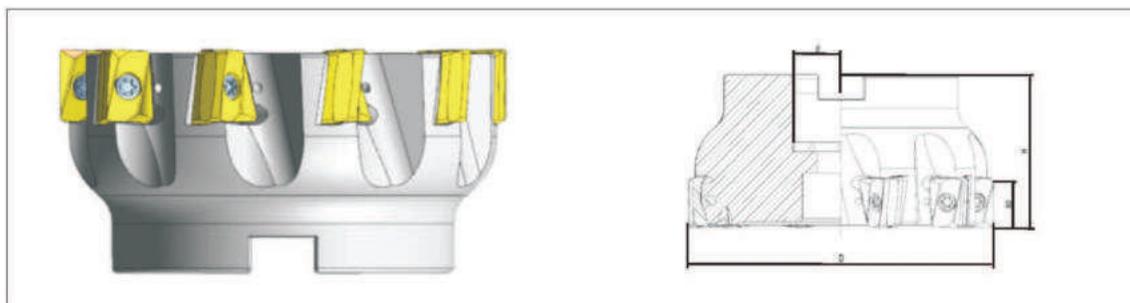
配件明细 Components

	螺钉 Screw	扳手 Wrench
	 M4.5x12	 T20

产品展示
product display

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规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)				重量 weight (Kg)	
			D	d	H	ap		
GFAN 450-22R-9012	ANMX 1205	4	50	22	—	45	11	0.4
GFAN 563-22R-9012		5	63	22	—	45	11	0.8
GFAN 680-27R-9012		6	80	27	25.4	50	11	1.2
GFAN 8100-32R-9012		8	100	32	31.75	50	11	1.9
GFAN 10125-40R-9012		10		40	38.1	63	11	3.4
GFAN 12160-40R-9012		12	160	40	50.8	63	11	5.1
GFAN 16200-60R-9012		16	200	60	50.8	63	11	7.5

刀片 Insert

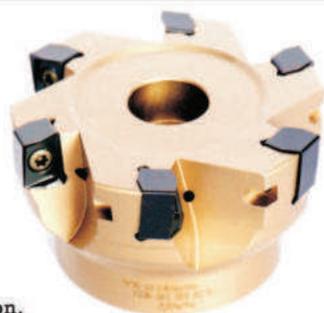
形状 Shape	主要牌号 Main Grade		
 ANMX 1205	钢 Steel	GD4120	
	铸铁 Cast Iron	GD4310	

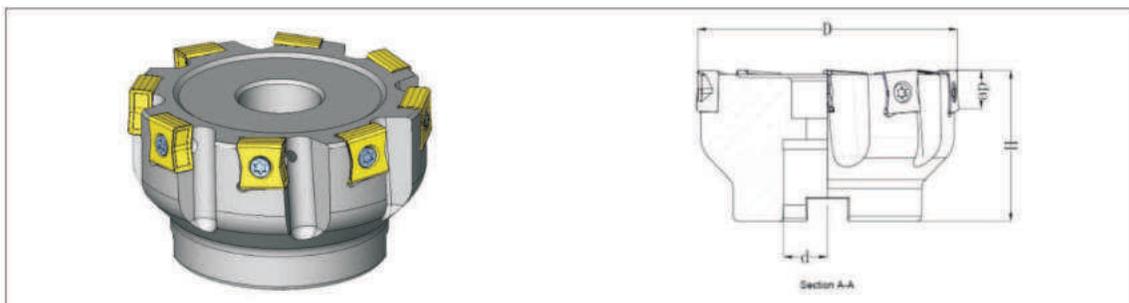
配件明细 Components

	螺钉 Screw	扳手 Wrench
	 M4X11	 T15

产品展示
product display

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规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)				重量 weight (Kg)
			D	d	H	ap	
GFLN 663-22R-9012	WL7131B	6	63	22	40	11	0.54
GFLN 680-27R-9012		6	80	27	45	11	1.08
GFLN 880-27R-9012		8	80	27	45	11	1.03
GFLN 10100-32R-9012		10	100	32	55	11	2.0
GFLN 12125-40R-9012		12	125	40	61	11	2.67
GFLN 16160-40R-9012		16	160	40	61	11	4.5

刀片 Insert

形状 Shape	主要牌号 Main Grade		
 WL7131B	钢 Steel	GD5968 GD5918	
	铸铁 Cast Iron	GD1368 GD1360	
	不锈钢 Stainless Steel	GD4210	

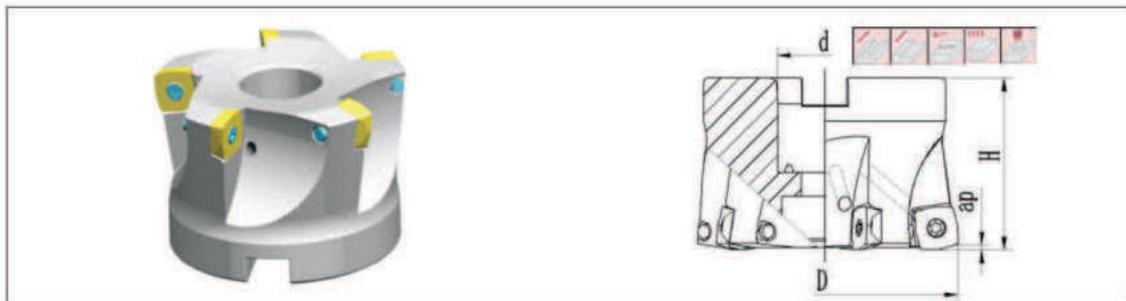
配件明细 Components

	螺钉 Screw	扳手 Wrench
	LS40B 1001	T15

产品展示
product display

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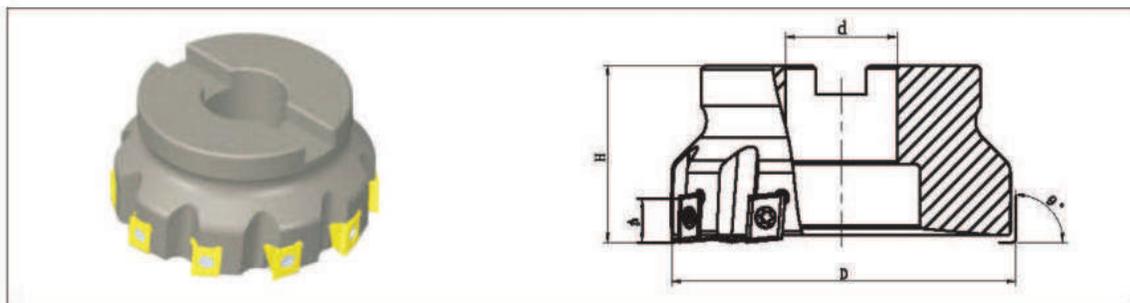
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)				重量 weight (Kg)	
			D	d		H		ap
GFXD 450-22R-9010	XDCT 100308	4	50	22	-	40	1.2	0.3
GFXD 563-22R-9010		5	63	22	-	40	1.2	0.6
GFXD 680-27R-9010		6	80	27	25.4	50	1.2	1.9
GFXD 8100-32R-9010		8	100	32	31.75	50	1.2	1.2
GFXD 10125-40R-9010		10	125	40	38.1	63	1.2	3.2
GFXD 12160-40R-9010		12	160	40	50.8	63	1.2	5.6
GFXD 16200-60R-9010		16	200	60	50.8	63	1.2	7.5

刀片 Insert

形状 Shape	主要牌号 Main Grade	
<p>XDCT 100308</p>	钢 Steel	GD5113 GD5112
	铸铁 Cast Iron	GD5310
	铝合金 Aluminum	GD4410

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M4X11	T15

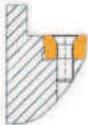


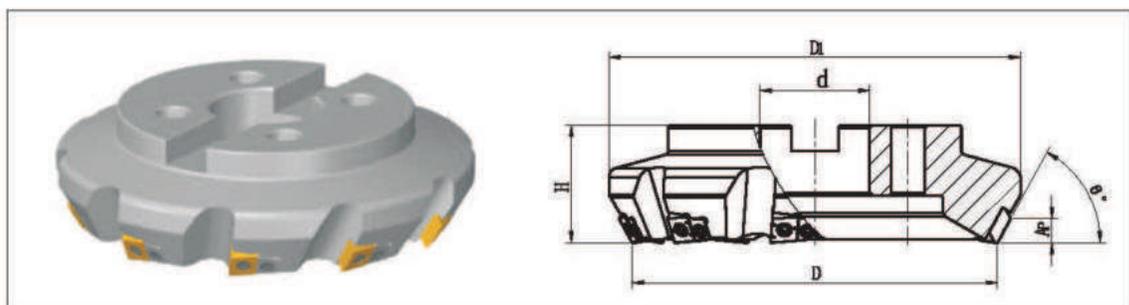
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			D	d	H	Ap		
GFM90-450-22R-1306	ZNEQ1306-CR08	5	50	22	40	13	A	0.4
GFM90-663-22R-1306		6	63	22	40	13	A	0.5
GFM90-780-27R-1306		8	80	27	50	13	B	1.1
GFM90-8100-32R-1306		8	80	27	50	13	B	2.1
GFM90-10100-32R-1306		10	100	32	50	13	B	2
GFM90-10125-40R-1306		12	125	40	63	13	B	2.9
GFM90-12160-40R-1306		14	160	40	63	13	B/C	5
GFM90-15200-60R-1306		15	200	60	63	13	C	6.8

刀片 Insert

形状 Shape	主要牌号 Main Grade	
 ZNEQ1306-CR08	钢 Steel	GD4120
	铸铁 Cast Iron	Gd4310
	铝合金 Alumnum	Gd4410

配件明细 Components

	螺钉 Screw	扳手 Wrench
		
	M4X12	T15

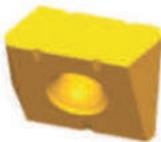


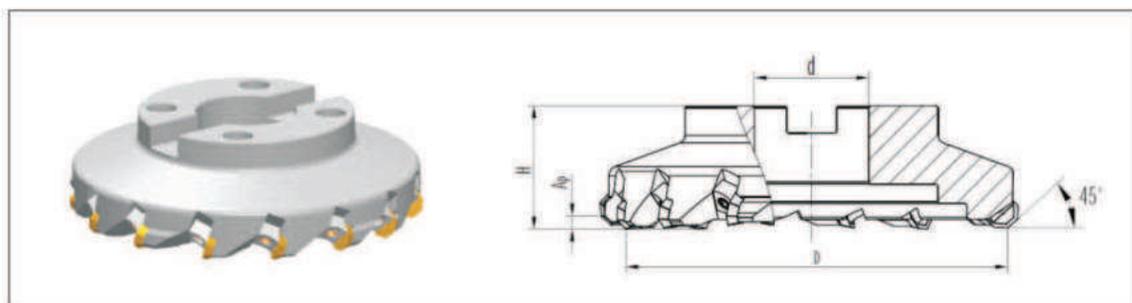
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)						重量 Weight(Kg)
			D	D1	d	H	Ap	联接形式	
GFXN-8160-40R-1907	XNEW 1907	8	160	185	40	63	12.5	B	6.6
GFXN-10200-60R-1907		10	200	225	60	63	12.5	C	9.8
GFXN-12250-60R-1907		12	250	271	60	70	12.5	C	15
GFXN-14315-60R-1907		14	315	337	60	75	12.5	C	23

配件明细 Components

 刀垫 XN1606	螺钉 Screw	扳手 Wrench
		 M5X13

刀片 Insert

形状 Shape	主要牌号 Main Grade	
 XNEW 1907	钢 Steel	GD4120
	铸铁 Cast Iron	Gd4310
	铝合金 Alumnum	Gd4410



规格型号 Model No.	规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					联接形式	重量 Weight(Kg)
				D	d	H	Ap			
GTFM 09125-40R-07-03	GTFM 09125-40L-07-03	OFCN070504	9	125	40	63	6.5 (共三阶)	B	3	
GTFM 12160-40R-07-03	GTFM 12160-40L-07-03		12	160	40	63		B	5.5	
GTFM 15200-60R-07-03	GTFM 15200-60L-07-03		15	200	60	63		C	7.2	
GTFM 18250-60R-07-03	GTFM 18250-60L-07-03		18	250	60	63		C	13.2	
GTFM 21315-60R-07-03	GTFM 21315-60L-07-03		21	315	60	70		C	18.5	

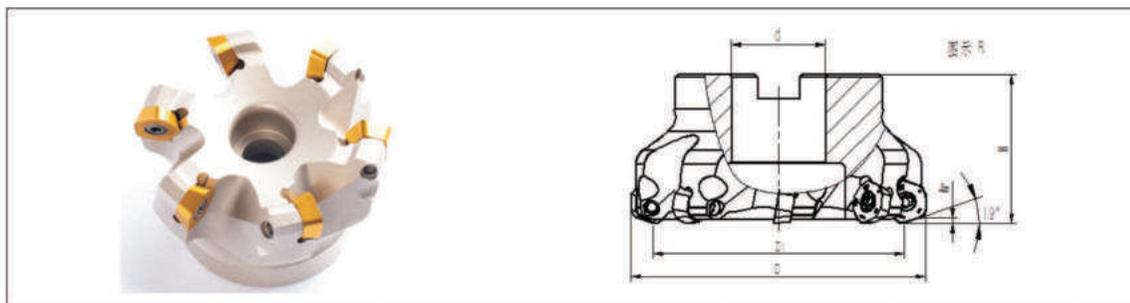
此铣刀主要解决机床刚性不足，阶梯量可根据要用户需要订制。

刀片 Insert

形状 Shape	主要牌号 Main Grade	
 OFCN070504	钢 Steel	GD4120
	铸铁 Cast Iron	Gd4310
	铝合金 Alumnum	Gd4410

配件明细 Components

压块 Wedge	双头螺钉 Screw	扳手 Wrench
 GTFM 1509	 GCS816-2	 S=5



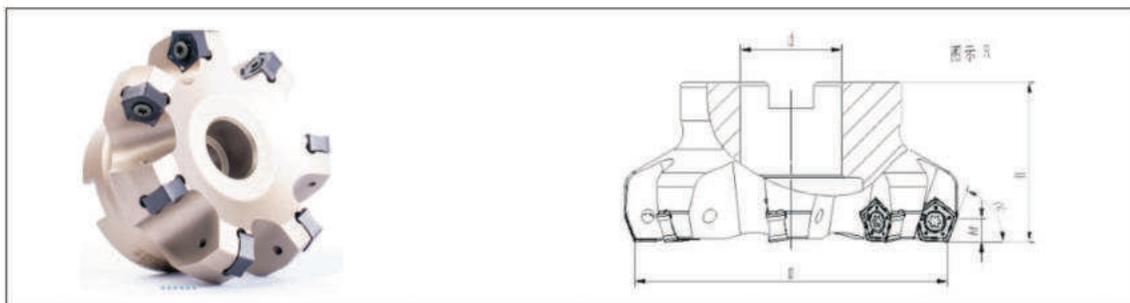
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					连接形式	重量 weight (Kg)
			D	D1	d	H	ap		
GF19PD-0450-22R/L-09	PDKT 090530	4	50	34.8	22	40	1.8	A	0.28
GF19PD-0563-22R/L-09		5	63	47.8	22	40	1.8	A	0.38
GF19PD-0680-27R/L-09		6	80	64.8	27	50	1.8	A	0.93
GF19PD-08100-32R/L-09		8	100	84.7	32	50	1.8	B	1.3
GF19PD-10125-40R/L-09		10	125	109.8	40	63	1.8	B	2.38
GF19PD-12160-40R/L-09		12	160	144.8	40	63	1.8	B/C	3.9

刀片 Insert

形状 Shape	主要牌号 Main Grade	
	钢 Steel	GD5112
	铸铁 Cast Iron	GD5331
	不锈钢 tainless Steel	GD5223

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M4X11	T15



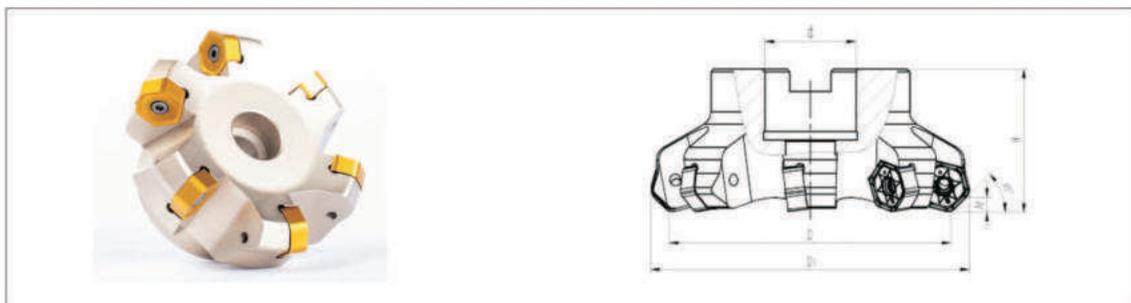
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					重量 weight (Kg)
			D	d	H	ap	联接形式	
GFPN-0450-22R/L-09	PNUH 090510TNF08	4	50	22	40	6	A	0.35
GFPN-0563-22R/L-09		5	63	22	40	6	A	0.45
GFPN-0780-27R/L-09		7	80	27	50	6	A	1.1
GFPN-08100-32R/L-09		8	100	32	50	6	B	1.5
GFPN-09125-40R/L-09		9	125	40	63	6	B	3
GFPN-12160-40R/L-09		12	160	40	63	6	B/C	4.5

刀片 Insert

形状 Shape	主要牌号 Main Grade	
	钢 Steel	GD5112
	铸铁 Cast Iron	GD5331
	不锈钢 tainless Steel	GD5223

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M5*11	T20



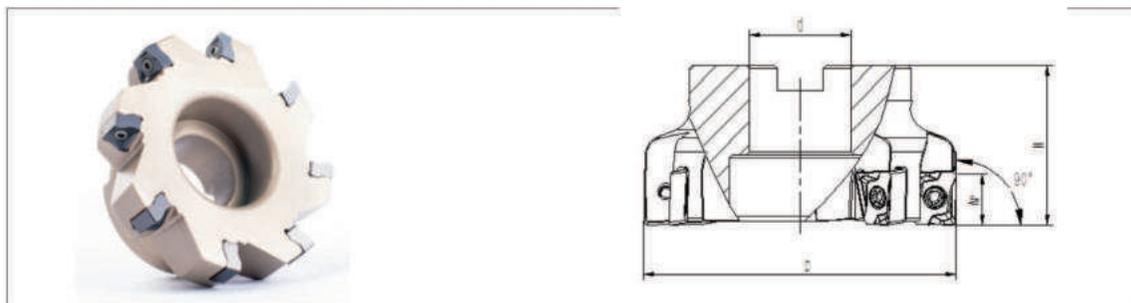
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)						重量 weight (Kg)
			D	D1	d	H	ap	联接形式	
GFM45HN-0450-22R/L-09	HNGU 090612	4	50	63	63	40	5	A	0.43
GFM45HN-0663-22R/L-09		6	63	76.7	76.7	40	5	A	0.6
GFM45HN-0680-27R/L-09		6	80	93	93	50	5	A	1.28
GFM45HN-08100-32R/L-09		8	100	113	113	50	5	A	1.65
GFM45HN-08125-40R/L-09		8	125	138	138	63	5	B	3.2
GFM45HN-10125-40R/L-09		10	125	138	138	63	5	B	3.1
GFM45HN-12160-40R/L-09		12	160	173	173	63	5	B/C	4.8
GFM45HN-10200-60R/L-09		10	200	213	213	63	5	C	8.1
GFM45HN-12200-60R/L-09		12	200	213	213	63	5	C	7.95

刀片 Insert

形状 Shape	主要牌号 Main Grade	
	钢 Steel	GD5112
	铸铁 Cast Iron	GD5331
	不锈钢 tainless Steel	GD5223

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M4.5*11	T20



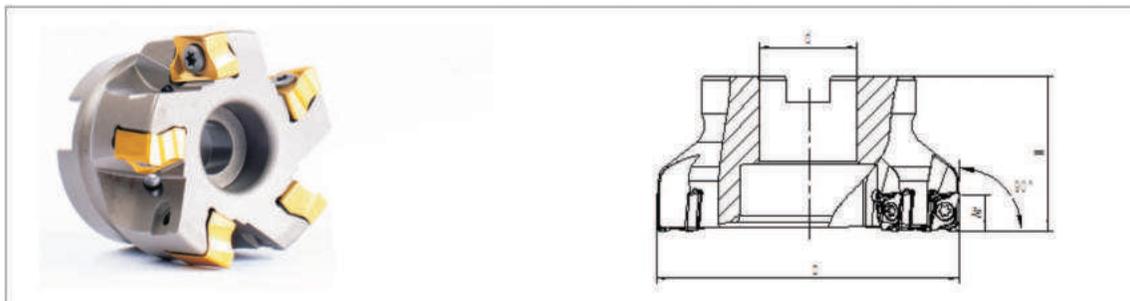
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)				联接形式	重量 weight (Kg)
			D	d	H	ap		
GF90LN 0450-22R-16	LNDU 160708	4	50	22	40	14	A	0.35
GF90LN 0563-22R-16		5	63	22	40	14	A	0.45
GF90LN 0680-27R-16		6	80	27	50	14	A	1.1
GF90LN 06100-32R-16		6	100	32	50	14	B	1.45
GF90LN 08100-32R-16		8	100	32	50	14	B	1.45
GF90LN 08125-40R-16		8	160	40	63	14	B/C	2.75
GF90LN 10125-40R-16		10	160	40	63	14	B/C	2.75
GF90LN 10160-40R-16		10	160	40	63	14	B/C	4.35
GF90LN 12160-40R-16		12	160	40	63	14	B/C	4.35
GF90LN 12200-60R-16		12	160	40	63	14	B/C	6.4

刀片 Insert

形状 Shape	主要牌号 Main Grade	
	钢 Steel	GD5112
	铸铁 Cast Iron	GD5331
	不锈钢 tainless Steel	GD5223

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M5*11	T20



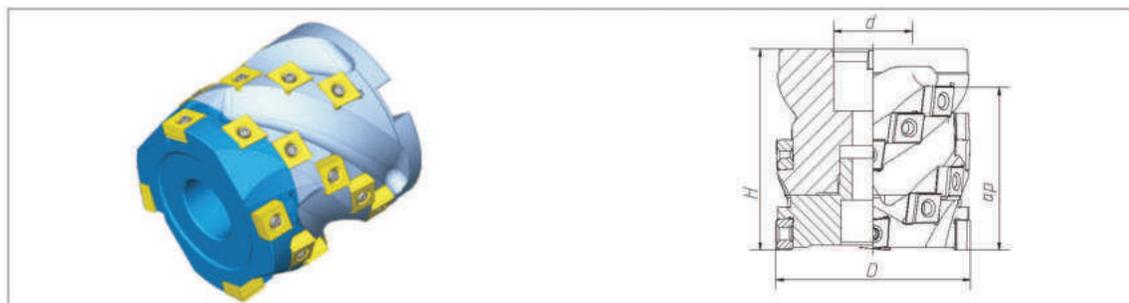
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)					重量 weight (Kg)
			D	d	H	ap	联接形式	
GF90LN 0450-22R-12	LNDU 120508	4	50	22	40	11	A	0.35
GF90LN 0550-22R-12		5	50	22	40	11	A	0.35
GF90LN 0463-22R-12		4	63	22	40	11	A	0.45
GF90LN 0663-22R-12		5	63	22	40	11	A	0.45
GF90LN 0580-27R-12		6	80	27	50	11	A	1.1
GF90LN 0780-27R-12		6	80	27	50	11	A	1.1
GF90LN 06100-32R-12		6	100	32	50	11	B	1.4
GF90LN 08100-32R-12		8	100	32	50	11	B	1.4
GF90LN 08125-40R-12		8	125	40	63	11	B	2.7
GF90LN 10125-40R-12		10	125	40	63	11	B	2.7

刀片 Insert

形状 Shape	主要牌号 Main Grade	
	钢 Steel	GD5112
	铸铁 Cast Iron	GD5331
	不锈钢 tainless Steel	GD5223

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M4*8	T15



规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)			
			D	d	H	ap
GFSM 350-42-22R-CN	CNGX 12	3*4	50	22	60	42
GFSM 363-50-27R-CN		3*5	63	27	63	50
GFSM 480-65-32R-CN		4*6	80	32	80	65

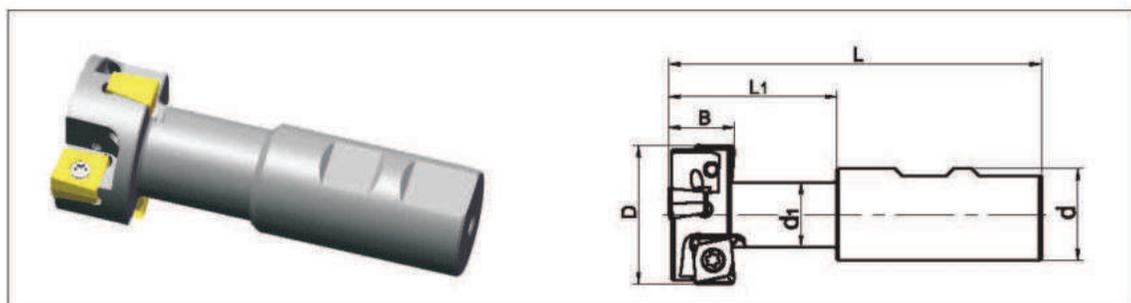
刀片 Insert

形状 Shape	主要牌号 Main Grade		
 CNGX 12	钢 Steel	GD4120	
	铸铁 Cast Iron	Gd4310	
	铝合金 Aluminum	Gd4410	

产品展示
product display

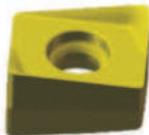
以上刀具可根据客户需求非标定制。
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规格型号 Model No.	刀片 Insert	槽数/ 有效 齿数	尺寸 Dimension (mm)						螺钉	扳手
			D	B	d	d1	L1	L		
GXM D25-11-W20-ZN07	ZNHU070-08	2/1	25	11	20	12	38	95	M3x9	T10
GXM D32-14-W25-ZN10	ZNHU100-08	2/1	32	14	25	16	33	95	M3.5x9	T15
GXM D40-18-W32-ZN10	ZNHU100-08	4/2	40	18	32	20	55	115	M3.5x9	T15
GXM D50-22-W32-ZN13	ZNHU130-08	4/2	50	22	32	25	65	130	M4x10	T15

刀片 Insert

形状 Shape	主要牌号 Main Grade	
 ZNHU07/10/130	钢 Steel	GD4120
	铸铁 Cast Iron	GD4310 PCB30
	铝合金 Alumnum	GD4410 PCD30

配件明细 Components

螺钉 Screw	扳手 Wrench
	
M3/M3.5/M4	T10/T15/T15

产品展示
product display

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规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)				
			D	d	h	H	ap
GXTC 450-22R-32	GTC 32L	4	50	22	1-4	40	3-5
GXTC 663 22R-32		6	63	22	1-4	40	3-5
GXTC 880-27R-32		8	80	27	1-4	40	3-5
GXTC 10100-32R-32		10	100	32	1-4	40	3-5
GXTC 12125-40R-32		12	125	32	1-4	40	3-5

刀片 Insert

形状 Shape	主要牌号 Main Grade		
 GTC 32L	钢 Steel	GD4120	
	铸铁 Cast Iron	GD4310 PCB30	
	铝合金 Aluminum	GD4410 PCD30	

配件明细 Components

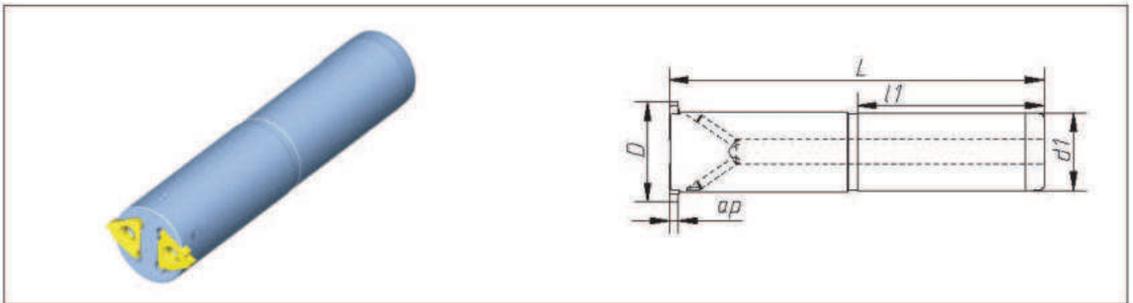
螺钉 Screw	扳手 Wrench
 M3.5x9	 T15

产品展示
product display

以上刀具可根据客户需求非标定制。

These tools can be based on customer needs non-standard customization.





规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)				
			D	d1	L	l1	ap
GXTN D25-W20-32	GTC 32L	1	25	20	125	89	3-5
GXTN D29-W25-32		2	29	25	125	89	3-5
GXTN D32-W25-32		2	32	25	125	89	3-5
GXTN D39-W25-32		3	39	25	125	92	3-5
GXTN D44-W25-32		3	44	25	125	92	3-5

刀片 Insert

形状 Shape	主要牌号 Main Grade		
 GTC 32L	钢 Steel	GD4120	
	铸铁 Cast Iron	GD4310 PCB30	
	铝合金 Alumnum	GD4410 PCD30	

配件明细 Components

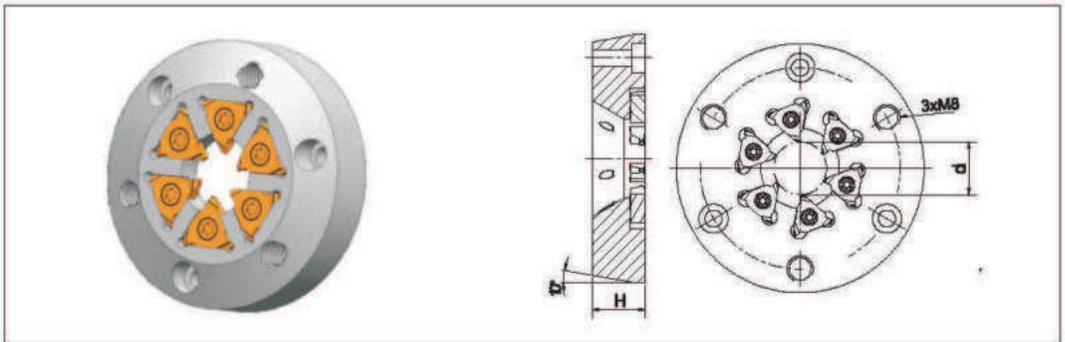
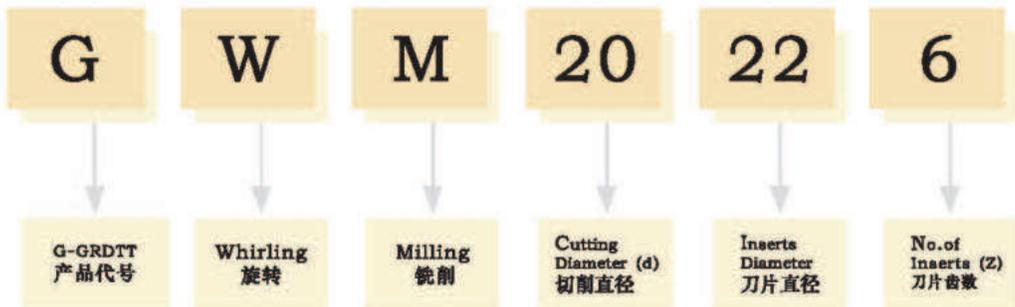
螺钉 Screw	扳手 Wrench
M3.5x9	T15

产品展示
product display



以上刀具可根据客户需求非标定制。

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规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension (mm)	
			d	H
GWM 20-22-6	22 VE	6	20	24
GWM 16-16-6	16 VE	6	16	24

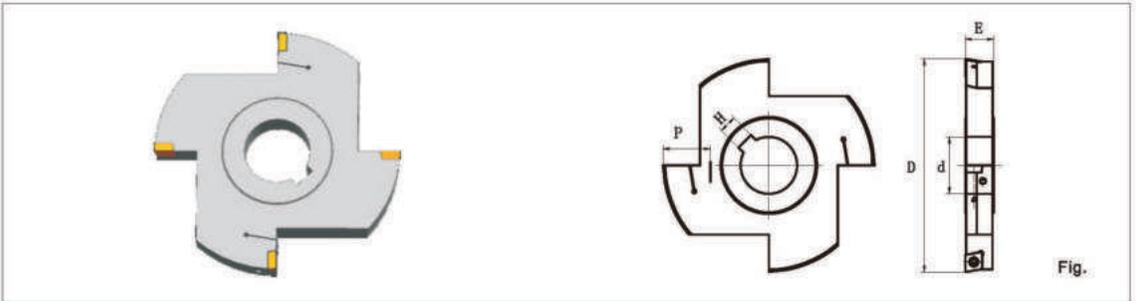
Insert 刀片

Shape 形状	Main Grade 主要牌号		Insert Screw 螺钉	
 16/22 VE	Steel 钢	GD 3135		



以上刀具可根据客户需求非标定制。

These tools can be based on customer needs non-standard customization.



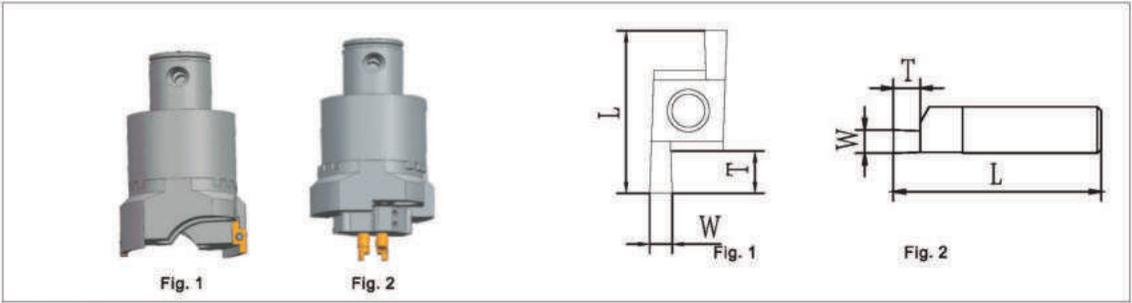
SC

规格型号 Model No.	刀片 Insert	E	齿数 Teeth	尺寸 Dimension (mm)				螺钉 Screw	扳手 Wrench
				D	d	c	p		
SC60-27	GCMT09□□	10	4	60	27	11	11	L035080I	TD15
SC70-27	GCMT09□□	10	4	70	27	11	12		
SC80-27	GCMT09□□	15	4	80	27	16	12		
SC88-27	GCMT09□□	11	4	88	27	12	14		
SC95-27	GCMT09□□	15	4	95	27	16	25		
SC110-35	GCMT09□□	15	4	110	32	16	25		
SC116-35	GCMT09□□	15	4	116	32	16	25		
SC120-35	GCMT09□□	15	4	110	35	16	25		
SC125.8-35	GCMT09□□	15	4	125.8	35	16	25		
SC138.3-35	GCMT09□□	15	4	138.3	35	16	25		
SC153.4-35	GCMT09□□	15	4	153.4	35	16	25		
SC185-42	GCMT09□□	15	4	185	42	16	25		

产品展示
product display



以上刀具可根据客户需求非标定制。
These tools can be based on customer needs non-standard customization.



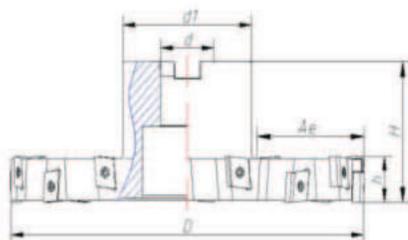
MDMC

规格型号 Model No.	加工直径 Machining diameter	刀片 Insert	齿数 Teeth	尺寸 Dimension (mm)			图 Fig.	螺钉 Screw	扳手 Wrench
				W	L	T			
MDMC 14-26	14-26	70AB	2	1.5	27	2.0	2		
		70B		2.0		3.0			
		70BC		2.5		3.0			
		70C		3.0		3.5			
MDMC 24-41	24-41	70AB	2	1.5	27	2.0	2	M4X11	L-W7
		70B		2.0		3.0			
		70BC		2.5		3.0			
		70C		3.0		3.5			
MDMC 40-55	40-55	70AB	2	1.5	27	2.0	2		
		70B		2.0		3.0			
		70BC		2.5		3.0			
		70C		3.0		3.5			
MDMC 54-70	54-70	75B	2	2.0	20	3.2	1		
		75C		3.0		4.5			
		75D		4.0		5.5			
		75E		5.0		6.5			
MDMC 69-85	69-85	75B	2	2.0	20	3.2	1	L040085I	TD15
		75C		3.0		4.5			
		75D		4.0		5.5			
		75E		5.0		6.5			
MDMC 84-110	84-110	75B	2	2.0	20	3.2	1		
		75C		3.0		4.5			
		75D		4.0		5.5			
		75E		5.0		6.5			

产品展示
product display



以上刀具可根据客户需求非标定制。
These tools can be based on customer needs non-standard customization.



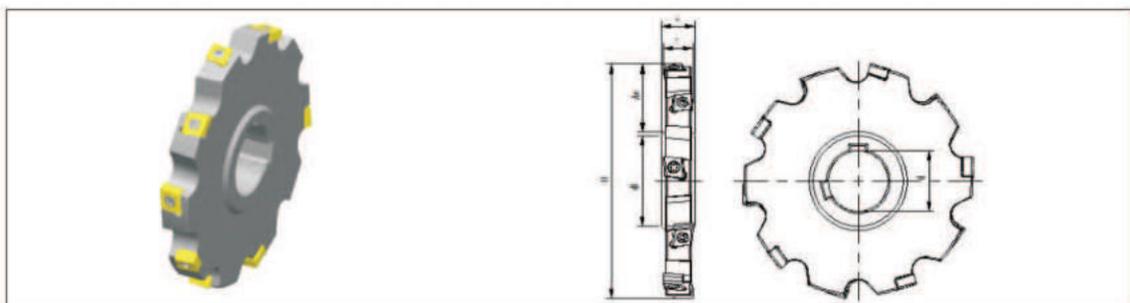
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)						联接形式	重量 Weight(Kg)
			D	d1	d	h	H	Ae		
GXM 880-12-22R-08	CNGX 0805	8	80	42	22	12	40	19	A	0.5
GXM 10100-12-27R-08		10	100	50	27	12	45	25	A	0.8
GXM 10125-12-32R-08		10	125	60	32	12	45	32	B	1.1
GXM 12160-12-40R-08		12	160	70	40	12	50	44	B	1.7
GXM 14200-12-40R-08		14	200	90	40	12	45	53	B/C	2.5
GXM 16250-12-40R-08		16	250	90	40	12	45	78	B/C	4
GXM 16250-12-60R-08		16	250	130	60	12	45	58	C	5.1
GXM 20315-12-60R-08		20	315	130	60	12	45	91	C	6.9
GXM 880-14-22R-10	CNGX 1005	8	80	42	22	14	40	19	A	0.5
GXM 880-16-22R-10		8	80	42	22	16	40	19	A	0.55
GXM 880-18-22R-10		8	80	42	22	18	40	19	A	0.7
GXM 10100-14-27R-10		10	100	50	27	14	45	25	A	0.9
GXM 10100-16-27R-10		10	100	50	27	16	45	26	A	0.95
GXM 10100-18-27R-10		10	100	50	27	18	45	26	A	1
GXM 10125-14-32R-10		10	125	60	32	14	45	32	B	1.2
GXM 10125-16-32R-10		10	125	60	32	16	45	32	B	1.35
GXM 10125-18-32R-10		10	125	60	32	18	45	32	B	1.5
GXM 12160-14-40R-10		12	160	70	40	14	50	44	B	2
GXM 12160-16-40R-10		12	160	70	40	16	50	44	B	2.2
GXM 12160-18-40R-10		12	160	70	40	18	50	44	B	2.4
GXM 14200-14-40R-10		14	200	90	40	14	45	53	B/C	3.1
GXM 14200-16-40R-10		14	200	90	40	16	45	53	B/C	3.4
GXM 14200-18-40R-10		14	200	90	40	18	45	53	B/C	3.9
GXM 16250-14-40R-10		16	250	90	40	14	45	78	B/C	4.5
GXM 16250-16-40R-10		16	250	90	40	16	45	78	B/C	5.2
GXM 16250-18-40R-10		16	250	90	40	18	45	78	B/C	5.6
GXM 16250-14-60R-10		16	250	130	60	14	45	58	C	5.6
GXM 16250-16-60R-10		16	250	130	60	16	45	58	C	6.1
GXM 16250-18-60R-10		16	250	130	60	18	45	58	C	6.6
GXM 20315-14-60R-10		20	315	130	60	14	45	91	C	8.1
GXM 20315-16-60R-10		20	315	130	60	16	45	91	C	9
GXM 20315-18-60R-10		20	315	130	60	18	45	91	C	9.8

刀片 Insert

形状 Shape	主要牌号 Main Grade		
 CNGX 08/1005	钢 Steel	GD4120	
	铸铁 Cast Iron	GD4310 PCB30	
	铝合金 Aluminum	GD4410 PCD30	

配件明细 Components

	螺钉 Screw	扳手 Wrench
	M3.5X11	T15



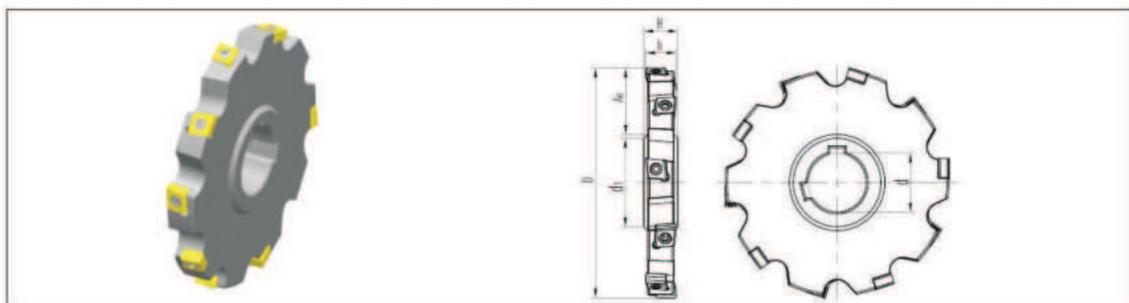
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)						重量 Weight(Kg)
			D	d1	d	h	H	Ae	
GXM 880-12-22N-08	CNGX 0805	8	80	34	22	12	14	22	0.35
GXM 10100-12-27N-08		10	100	41	27	12	14	28	0.5
GXM 10125-12-32N-08		10	125	50	32	12	14	36	0.85
GXM 12160-12-40N-08		12	160	55	40	12	14	51	1.4
GXM 14200-12-50N-08		14	200	70	50	12	14	63	2
GXM 16250-12-50N-08		16	250	70	50	12	14	88	2.1
GXM 20315-12-60N-08		20	315	90	60	12	14	110	6.1
GXM 880-14-22N-10	CNGX 1005	8	80	34	22	14	16	22	0.4
GXM 880-16-22N-10		8	80	34	22	16	18	22	0.45
GXM 880-18-22N-10		8	80	34	22	18	20	22	0.5
GXM 10100-14-27N-10		10	100	41	27	14	16	28	0.55
GXM 10100-16-27N-10		10	100	41	27	16	18	28	0.6
GXM 10100-18-27N-10		10	100	41	27	18	20	28	0.65
GXM 10125-14-32N-10		10	125	50	32	14	16	36	0.95
GXM 10125-16-32N-10		10	125	50	32	16	18	36	1
GXM 10125-18-32N-10		10	125	50	32	18	20	36	1.1
GXM 12160-14-40N-10		12	160	55	40	14	16	51	1.55
GXM 12160-16-40N-10		12	160	55	40	16	18	51	1.8
GXM 12160-18-40N-10		12	160	55	40	18	20	51	2
GXM 14200-14-50N-10		14	200	70	50	14	16	63	2.4
GXM 14200-16-50N-10		14	200	70	50	16	18	63	2.8
GXM 14200-18-50N-10		14	200	70	50	18	20	63	3.1
GXM 16250-14-50N-10		16	250	70	50	14	16	88	2.7
GXM 16250-16-50N-10		16	250	70	50	16	18	88	3.1
GXM 16250-18-50N-10		16	250	70	50	18	20	88	3.4
GXM 20315-14-60N-10		20	315	90	60	14	16	110	7
GXM 20315-16-60N-10		20	315	90	60	16	18	110	7.4
GXM 20315-18-60N-10	20	315	90	60	18	20	110	7.9	

刀片 Insert

形状 Shape	主要牌号 Main Grade	
 CNGX 08/1005	钢 Steel	GD4120
	铸铁 Cast Iron	GD4310 PCB30
	铝合金 Aluminum	GD4410 PCD30

配件明细 Components

	螺钉 Screw	扳手 Wrench
	 M3.5x11	 T15



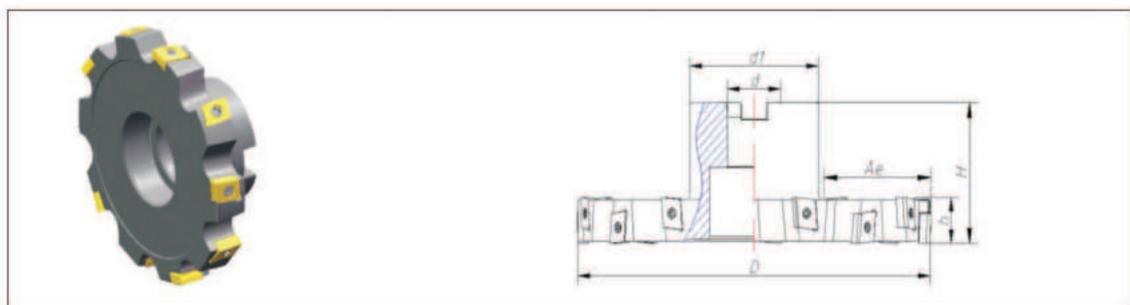
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)						重量 Weight(Kg)
			D	d1	d	h	H	Ae	
GXM 680-18-22N-13	CNGX 1305	6	80	34	22	18	20	21	0.66
GXM 680-20-22N-13		6	80	34	22	20	22	21	0.71
GXM 680-22-22N-13		6	80	34	22	22	24	21	0.75
GXM 680-24-22N-13		6	80	34	24	24	26	21	0.85
GXM 08100-18-27N-13		8	100	41	27	18	20	28	1
GXM 08100-20-27N-13		8	100	41	27	20	22	28	1.1
GXM 08100-22-27N-13		8	100	41	27	22	24	28	1.15
GXM 08100-24-27N-13		8	100	41	27	24	26	28	1.2
GXM 10125-18-32N-13		10	125	50	32	18	20	36	1.43
GXM 10125-20-32N-13		10	125	50	32	20	22	36	1.55
GXM 10125-22-32N-13		10	125	50	32	22	24	36	1.67
GXM 10125-24-32N-13		10	125	50	32	24	26	36	1.75
GXM 12160-18-40N-13		12	160	55	40	18	20	51	2.1
GXM 12160-20-40N-13		12	160	55	40	20	22	51	2.3
GXM 12160-22-40N-13		12	160	55	40	22	24	51	2.5
GXM 12160-24-40N-13		12	160	55	40	24	26	51	2.7
GXM 14200-18-50N-13		14	200	70	40	18	20	63	3.5
GXM 14200-20-50N-13		14	200	70	40	20	22	63	3.9
GXM 14200-22-50N-13		14	200	70	40	22	24	63	4.2
GXM 14200-24-50N-13		14	200	70	40	24	26	63	4.4
GXM 16250-18-50N-13		16	250	70	60	18	20	88	6
GXM 16250-20-50N-13		16	250	70	60	20	22	88	6.4
GXM 16250-22-50N-13		16	250	70	60	22	24	88	6.7
GXM 16250-24-50N-13		16	250	70	60	24	26	88	7
GXM 20315-18-60N-13	20	315	90	60	18	20	110	8.5	
GXM 20315-20-60N-13	20	315	90	60	20	22	110	10	
GXM 20315-22-60N-13	20	315	90	60	22	24	110	11.5	
GXM 20315-24-60N-13	20	315	90	60	24	26	110	12.5	

刀片 Insert

形状 Shape	主要牌号 Main Grade		
 CNGX1305	钢 Steel	GD4120	
	铸铁 Cast Iron	GD4310	
	铝合金 Aluminum	GD4410	
		PCD30	

配件明细 Components

	螺钉 Screw	扳手 Wrench
	 M4X13	 T15



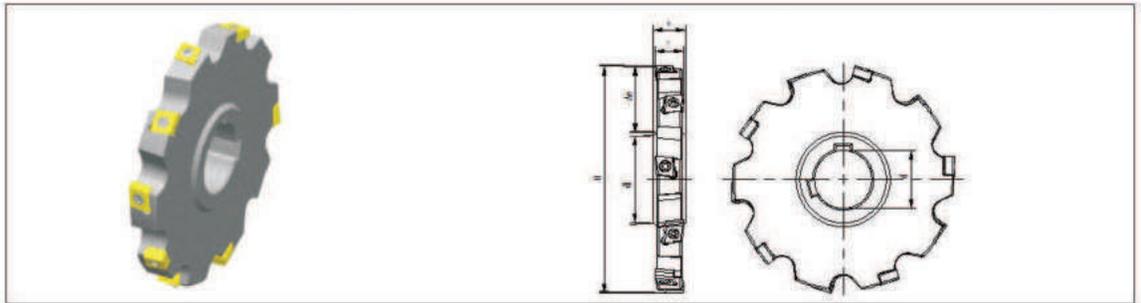
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)						联接形式	重量 Weight(Kg)
			D	d1	d	h	H	Ae		
GXM 680-18-22R-13	CNGX 1305	6	80	42	22	18	45	19	A	0.66
GXM 680-20-22R-13		6	80	42	22	20	45	19	A	0.71
GXM 680-22-22R-13		6	80	42	22	22	45	19	A	0.75
GXM 680-24-22R-13		6	80	42	24	24	45	19	A	0.85
GXM 08100-18-27R-13		8	100	50	27	18	45	25	A	1
GXM 08100-20-27R-13		8	100	50	27	20	45	25	A	1.1
GXM 08100-22-27R-13		8	100	50	27	22	45	25	A	1.15
GXM 08100-24-27R-13		8	100	50	27	24	45	25	A	1.2
GXM 10125-18-32R-13		10	125	60	32	18	45	32.5	B	1.43
GXM 10125-20-32R-13		10	125	60	32	20	45	32.5	B	1.55
GXM 10125-22-32R-13		10	125	60	32	22	45	32.5	B	1.67
GXM 10125-24-32R-13		10	125	60	32	24	45	32.5	B	1.75
GXM 12160-18-40R-13		12	160	70	40	18	50	45	B	2.36
GXM 12160-20-40R-13		12	160	70	40	20	50	45	B	2.57
GXM 12160-22-40R-13		12	160	70	40	22	50	45	B	2.8
GXM 12160-24-40R-13		12	160	70	40	24	50	45	B	2.9
GXM 14200-18-40R-13		14	200	90	40	18	45	53	B/C	3.75
GXM 14200-20-40R-13		14	200	90	40	20	45	53	B/C	4.1
GXM 14200-22-40R-13		14	200	90	40	22	45	53	B/C	4.4
GXM 14200-24-40R-13		14	200	90	40	24	45	53	B/C	4.8
GXM 16250-18-40R-13		16	250	90	40	18	45	78	B/C	5.7
GXM 16250-20-40R-13		16	250	90	40	20	45	78	B/C	6.3
GXM 16250-22-40R-13		16	250	90	40	22	45	78	B/C	7
GXM 16250-24-40R-13		16	250	90	40	24	45	78	B/C	7.3
GXM 16250-18-60R-13		16	250	130	60	18	50	58	C	7.5
GXM 16250-20-60R-13		16	250	130	60	20	50	58	C	8
GXM 16250-22-60R-13		16	250	130	60	22	50	58	C	8.5
GXM 16250-24-60R-13		16	250	130	60	24	50	58	C	8.9
GXM 20315-18-60R-13		20	315	130	60	18	50	90	C	9.6
GXM 20315-20-60R-13		20	315	130	60	20	50	90	C	11
GXM 20315-22-60R-13		20	315	130	60	22	50	90	C	12.6
GXM 20315-24-60R-13		20	315	130	60	24	50	90	C	14

刀片 Insert

形状 Shape	主要牌号 Main Grade	
 CNGX1305	钢 Steel	GD4120
	铸铁 Cast Iron	GD4310 PCB30
	铝合金 Aluminum	GD4410 PCD30

配件明细 Components

	螺钉 Screw	扳手 Wrench
	 M4X13	 T15



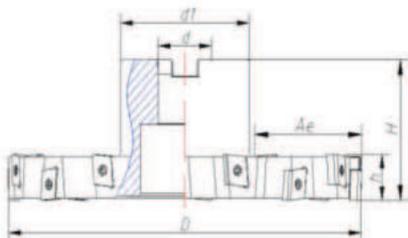
规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)						重量 Weight(Kg)
			D	d1	d	h	H	Ae	
GXM 6100-26-27N-16	CNGX1606	6	100	41	27	26	28	28	1.2
GXM 6100-28-27N-16		6	100	41	27	28	30	28	1.3
GXM 6100-30-27N-16		6	100	41	27	30	32	28	1.4
GXM 8125-26-32N-16		8	125	50	32	26	28	36	1.7
GXM 8125-28-32N-16		8	125	50	32	28	30	36	1.8
GXM 8125-30-32N-16		8	125	50	32	30	32	36	1.9
GXM 10160-24-40N-16		10	160	55	40	26	26	51	2.6
GXM 10160-26-40N-16		10	160	55	40	26	28	51	2.8
GXM 10160-28-40N-16		10	160	55	40	28	30	51	3
GXM 10160-30-40N-16		10	160	55	40	30	32	51	3.3
GXM 12200-24-50N-16		12	200	70	50	24	26	63	4.5
GXM 12200-26-50N-16		12	200	70	50	26	28	63	4.9
GXM 12200-28-50N-16		12	200	70	50	28	30	63	5.2
GXM 12200-30-50N-16		12	200	70	50	30	32	63	5.6
GXM 16250-24-50N-16		16	250	70	50	24	26	88	7.2
GXM 16250-26-50N-16		16	250	70	50	26	28	88	7.9
GXM 16250-28-50N-16		16	250	70	50	28	30	88	8.5
GXM 16250-30-50N-16		16	250	70	50	30	32	88	9.2
GXM 18315-24-60N-16		18	315	90	60	24	26	110	11.7
GXM 18315-26-60N-16		18	315	90	60	26	28	110	12.8
GXM 18315-28-60N-16	18	315	90	60	28	30	110	13.9	
GXM 18315-30-60N-16	18	315	90	60	30	32	110	15	

刀片 Insert

形状 Shape	主要牌号 Main Grade	
 CNGX1606	钢 Steel	GD4120
	铸铁 Cast Iron	GD4310
	铝合金 Aluminum	GD4410
		PCD30

配件明细 Components

	螺钉 Screw	扳手 Wrench
	 M4X13	 T15



规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)							重量 Weight(Kg)
			D	d1	d	h	H	Ae		
GXM 6100-24-27R-16	CNGX1606	6	100	50	27	24	50	A	24	1.3
GXM 6100-26-27R-16		6	100	50	27	26	50	A	24	1.35
GXM 6100-28-27R-16		6	100	50	27	28	50	A	24	1.4
GXM 6100-30-27R-16		6	100	50	27	30	50	A	24	1.5
GXM 8125-24-32R-16		8	125	60	32	26	50	B	31	1.8
GXM 8125-26-32R-16		8	125	60	32	26	50	B	31	1.9
GXM 8125-28-32R-16		8	125	60	32	28	50	B	31	2
GXM 8125-30-32R-16		8	125	60	32	30	50	B	31	2.1
GXM 10160-24-40R-16		10	160	70	40	26	45	B	43	2.9
GXM 10160-26-40R-16		10	160	70	40	26	45	B	43	3.1
GXM 10160-28-40R-16		10	160	70	40	28	45	B	43	3.3
GXM 10160-30-40R-16		10	160	70	40	30	45	B	43	3.6
GXM 12200-24-40R-16		12	200	90	40	24	45	B/C	53	4.7
GXM 12200-26-40R-16		12	200	90	40	26	45	B/C	53	5.1
GXM 12200-28-40R-16		12	200	90	40	28	45	B/C	53	5.4
GXM 12200-30-40R-16		12	200	90	40	30	45	B/C	53	5.8
GXM 16250-24-40R-16		16	250	90	40	24	45	B/C	78	7.5
GXM 16250-26-40R-16		16	250	90	40	26	45	B/C	78	8.1
GXM 16250-28-40R-16		16	250	90	40	28	45	B/C	78	8.7
GXM 16250-30-40R-16		16	250	90	40	30	45	B/C	78	9.3
GXM 16250-24-60R-16		16	250	130	60	24	50	C	58	8.4
GXM 16250-26-60R-16		16	250	130	60	26	50	C	58	8.9
GXM 16250-28-60R-16		16	250	130	60	28	50	C	58	9.4
GXM 16250-30-60R-16		16	250	130	60	30	50	C	58	9.9
GXM 18315-24-60R-16		18	315	130	60	24	50	C	91	12.8
GXM 18315-26-60R-16		18	315	130	60	26	50	C	91	13.9
GXM 18315-28-60R-16		18	315	130	60	28	50	C	91	14.8
GXM 18315-30-60R-16		18	315	130	60	30	50	C	91	15.7

刀片 Insert

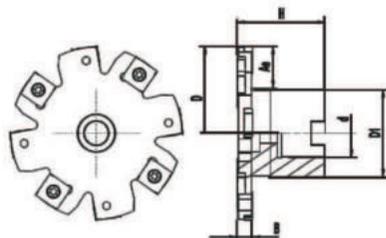
形状 Shape	主要牌号 Main Grade	
 CNGX 1606	钢 Steel	GD4120
	铸铁 Cast Iron	GD4310 PCB30
	铝合金 Aluminum	GD4410 PCD30

产品展示
product display

以上刀具可根据客户需求非标定制。

These tools can be based on customer needs non-standard customization.





规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					
			B	D	d1	d	H	Ae
GXM D63-03-22R-SN018	SNGT 018	4+4	3	63	42	22	40	10
GXM D80-03-22R-SN018	SNGT 018	5+5	3	80	42	22	40	18
GXM D63-04-22R-SN023	SNGT 023	4+4	4	63	42	22	40	10
GXM D80-04-22R-SN023	SNGT 023	5+5	4	80	42	22	40	18
GXM D63-05-22R-SN028	SNGT 028	4+4	5	63	42	22	40	10
GXM D80-05-22R-SN028	SNGT 028	5+5	5	80	42	22	40	18
GXM D63-06-22R-SN033	SNGT 033	4+4	6	63	42	22	40	10
GXM D80-06-22R-SN033	SNGT 033	5+5	6	80	42	22	40	18
GXM D100-06-27R-SN033	SNGT 033	7+7	6	100	50	27	50	24
GXM D125-06-32R-SN033	SNGT 033	8+8	6	125	60	32	50	31
GXM D160-06-40R-SN033	SNGT 033	10+10	6	160	70	40	50	43
GXM D63-07-22R-SN038	SNGX 038	3+3	7	63	42	22	40	10
GXM D80-07-22R-SN038	SNGX 038	4+4	7	80	42	22	40	18
GXM D100-07-27R-SN038	SNGX 038	5+5	7	100	50	27	50	24
GXM D125-07-32R-SN038	SNGX 038	6+6	7	125	60	32	50	31
GXM D160-07-40R-SN038	SNGX 038	8+8	7	160	70	40	50	43
GXM D63-08-22R-SN043	SNGX 043	3+3	8	63	42	22	40	10
GXM D80-08-22R-SN043	SNGX 043	4+4	8	80	42	22	40	18
GXM D100-08-27R-SN043	SNGX 043	5+5	8	100	50	27	50	24
GXM D125-08-32R-SN043	SNGX 043	6+6	8	125	60	32	50	31
GXM D160-08-40R-SN043	SNGX 043	8+8	8	160	70	40	50	44
GXM D63-09-22R-SN048	SNGX 048	3+3	9	63	42	22	40	10
GXM D80-09-22R-SN048	SNGX 048	4+4	9	80	42	22	40	18
GXM D100-09-27R-SN048	SNGX 048	5+5	9	100	50	27	50	24
GXM D125-09-32R-SN048	SNGX 048	6+6	9	125	60	32	50	31
GXM D160-09-40R-SN048	SNGX 048	8+8	9	160	70	40	50	43
GXM D63-10-22R-SN053	SNGX 053	3+3	10	63	42	22	40	10
GXM D80-10-22R-SN053	SNGX 053	4+4	10	80	42	22	40	18
GXM D100-10-27R-SN053	SNGX 053	5+5	10	100	50	27	40	20
GXM D125-10-32R-SN053	SNGX 053	6+6	10	125	60	32	50	31
GXM D160-10-40R-SN053	SNGX 053	8+8	10	160	70	40	50	44

Insert 刀片

Shape 形状	Main Grade 主要牌号		槽底形状	
 SNGT 018/023/028/033/038/048/053	Steel 钢	GD 3135		

配件明细 Components

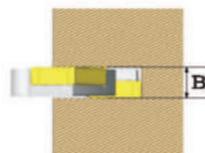
	螺钉 Screw	扳手 Wrench
	 M2.5x0.35/M4X0.5/M4	 T8/T15



规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					
			B	D	d1	d	H	Ae
GXM D63-03-22N-SN018	SNGT 018	4+4	3	63	34	22	8	12
GXM D80-03-22N-SN018	SNGT 018	5+5	3	80	34	22	8	20
GXM D63-04-22N-SN023	SNGT 023	4+4	4	63	34	22	8	12
GXM D80-04-22N-SN023	SNGT 023	5+5	4	80	34	22	8	20
GXM D63-05-22N-SN028	SNGT 028	4+4	5	63	34	22	8	13
GXM D80-05-22N-SN028	SNGT 028	5+5	5	80	34	22	8	21
GXM D63-06-22N-SN033	SNGT 033	4+4	6	63	34	22	8	14
GXM D80-06-22N-SN033	SNGT 033	5+5	6	80	34	22	8	22
GXM D100-06-27N-SN033	SNGT 033	7+7	6	100	41	27	10	27
GXM D125-06-32N-SN033	SNGT 033	8+8	6	125	50	32	10	35
GXM D160-06-40N-SN033	SNGT 033	10+10	6	160	55	40	10	50
GXM D63-07-22N-SN038	SNGX 038	3+3	7	63	34	22	8	12
GXM D80-07-22N-SN038	SNGX 038	4+4	7	80	34	22	8	20
GXM D100-07-27N-SN038	SNGX 038	5+5	7	100	41	27	12	27
GXM D125-07-32N-SN038	SNGX 038	6+6	7	125	50	32	12	34
GXM D160-07-40N-SN038	SNGX 038	8+8	7	160	55	40	12	□
GXM D80-08-22N-SN043	SNGX 043	4+4	8	80	34	22	12	20
GXM D100-08-27N-SN043	SNGX 043	5+5	8	100	41	27	12	27
GXM D125-08-32N-SN043	SNGX 043	6+6	8	125	50	32	12	35
GXM D160-08-40N-SN043	SNGX 043	8+8	8	160	55	40	12	50
GXM D80-09-22N-SN048	SNGX 048	4+4	9	80	34	22	12	21
GXM D100-09-27N-SN048	SNGX 048	5+5	9	100	41	27	12	27
GXM D125-09-32N-SN048	SNGX 048	6+6	9	125	50	32	12	35
GXM D160-09-40N-SN048	SNGX 048	8+8	9	160	55	40	12	50
GXM D80-10-22N-SN053	SNGX 053	4+4	10	80	34	22	12	21.5
GXM D100-10-27N-SN053	SNGX 053	5+5	10	100	41	27	12	28
GXM D125-10-32N-SN053	SNGX 053	6+6	10	125	50	32	12	36
GXM D160-10-40N-SN053	SNGX 053	8+8	10	160	55	40	12	51

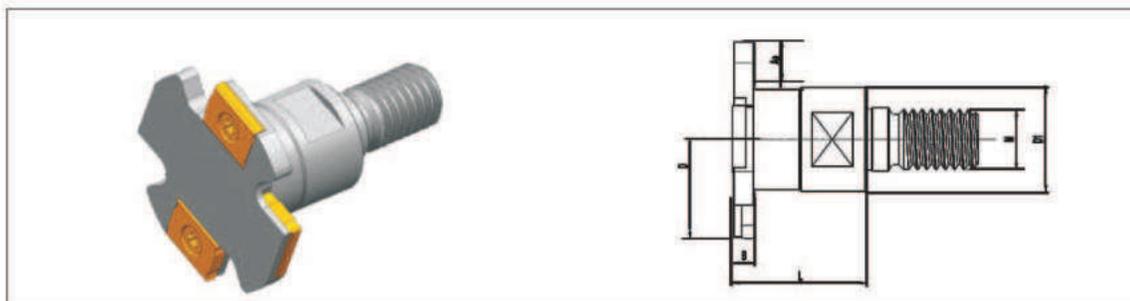
Insert 刀片

Shape 形状	Main Grade 主要牌号		槽底形状
 SNGT 018/023/028/033/038/048/053	Steel 钢	GD 3135	



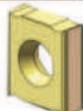
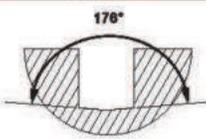
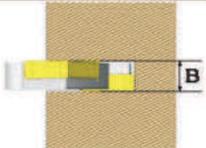
配件明细 Components

	螺钉 Screw	扳手 Wrench
	 M2.5x0.35/M4X0.5/M4	 T8/T15



规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					
			B	D	d1	L	M	Ac
GXM D28-03-M08-SN018	SNGT 018	1+1	3	28	14	18	8	6.5
GXM D32-03-M08-SN018		2+2	3	32	16	18	8	7.5
GXM D40-03-M10-SN018		2+2	3	40	20	18	10	9.5
GXM D50-03-M10-SN018		3+3	3	50	20	18	10	14.5
GXM D63-03-M12-SN018		4+4	3	63	25	18	12	18.5
GXM D28-04-M08-SN023	SNGT 023	1+1	4	28	14	18	8	6.5
GXM D32-04-M08-SN023		2+2	4	32	16	18	8	7.5
GXM D40-04-M10-SN023		2+2	4	40	20	18	10	9.5
GXM D50-04-M10-SN023		3+3	4	50	20	18	10	14.5
GXM D63-04-M12-SN023		4+4	4	63	25	18	12	18.5
GXM D28-05-M08-SN028	SNGT 028	1+1	5	28	14	18	8	6.5
GXM D32-05-M08-SN028		2+2	5	32	16	18	8	7.5
GXM D40-05-M10-SN028		2+2	5	40	20	18	10	9.5
GXM D50-05-M10-SN028		3+3	5	50	20	18	10	14.5
GXM D63-05-M12-SN028		4+4	5	63	25	18	12	18.5
GXM D28-06-M08-SN033	SNGT 033	1+1	6	28	14	18	8	6.5
GXM D32-06-M08-SN033		2+2	6	32	16	18	8	7.5
GXM D40-06-M10-SN033		2+2	6	40	20	18	10	9.5
GXM D50-06-M10-SN033		3+3	6	50	20	18	10	14.5
GXM D63-06-M12-SN033		4+4	6	63	25	18	12	18.5

Insert 刀片

Shape 形状	Main Grade 主要牌号		槽底形状	
 SNGT 018/023/028/033	Steel 钢	GD 3135		

配件明细 Components

	螺钉 Screw	扳手 Wrench
		
	M2.5X0.35	T8

以上刀具可根据客户需求非标定制。

These tools can be based on customer needs non-standard customization.



规格型号 Model No.	D(刃部直径) x 刃部 R 角 Dia x Comer R	刃长 Flute-Length	颈径 d Neck Dia	连接螺纹 M Tread Size
HRTAD10*R0.5*M05	10xR0.5	10	9.7	M05
HRTA D10*R1*M05	10xR1	10	9.7	M05
HRTA D10*R2*M05	10xR2	10	9.7	M05
HRTAD12*R0.5*M06	12xR0.5	12	11.7	M06
HRTA D12*R1*M06	12xR1	12	11.7	M06
HRTA D12*R2*M06	12xR2	12	11.7	M06
HRTA D16*R1*M08	16xR1	16	15.7	M08
HRTA D16*R2*M08	16xR2	16	15.7	M08
HRTA D20*R1*M10	20xR1	20	19.5	M10
HRTA D20*R2*M10	20xR2	20	19.5	M10
HRTA D20*R3*M10	20xR3	20	19.5	M10
HRTA D25*R1*M10	25xR1	25	24.5	M12
HRTA D25*R2*M10	25xR2	25	24.5	M12
HRTA D25*R3*M10	25xR3	25	24.5	M12

*另有加工铜铝用系列可供选择



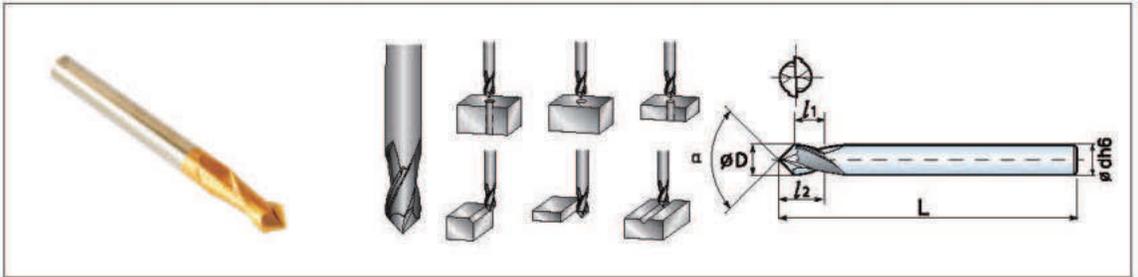
规格型号 Model No.	D(刃部直径) x 刃部 R 角 Dia x Comer R	刃长 Flute-Length	颈径 d Neck Dia	连接螺纹 M Tread Size
HH D10*M05	10	10	9.7	M05
HH D12*M06	12	12	11.7	M06
HH D16*M08	16	16	15.7	M08
HH D20*M10	20	20	19.5	M10
HH D25*M12	25	25	24.5	M12

*另有加工铜铝用系列可供选择



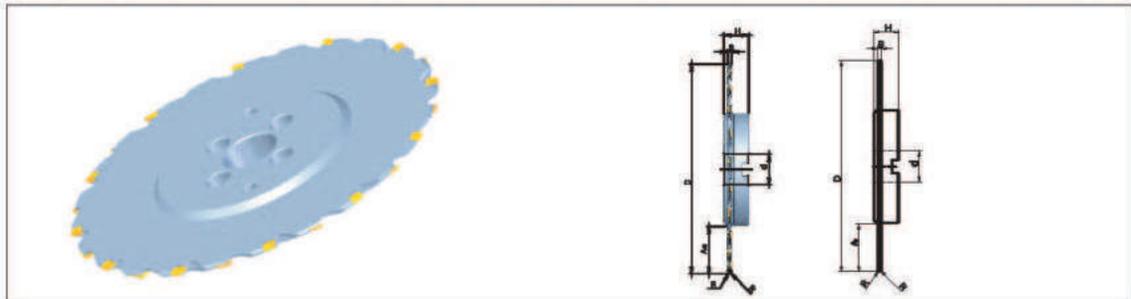
规格型号 Model No.	D(刃部直径) x 刃部 R 角 Dia x Comer R	刃长 Flute-Length	颈径 d Neck Dia	连接螺纹 M Tread Size
HSB D10*M05	R5.0	10	9.7	M05
HSB D12*M06	R6.0	12	11.7	M06
HSB D16*M08	R8.0	16	15.7	M08
HSB D20*M08	R10.0	20	19.5	M10
HSB D25*M12	R12.5	25	24.5	M12

*另有加工铜铝用系列可供选择



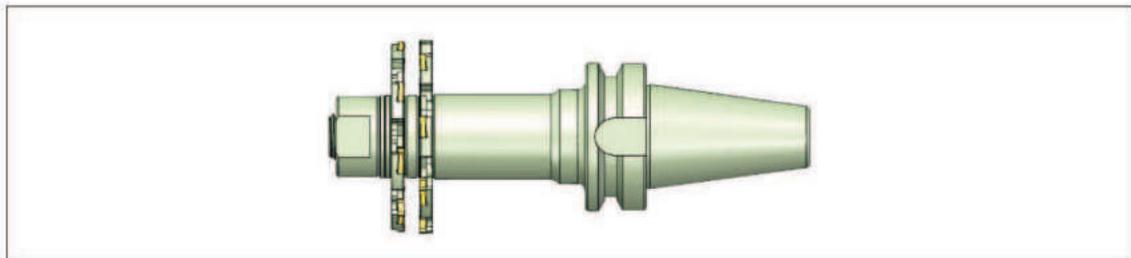
规格型号 Model No.	角度 α	齿数 Z	尺寸 Dimension (mm)					
			D	d	L	L2	ap	
HRT-D3*90° *2T*50	90°	2	3	3	50	8	1.5	
HRT-D3*90° *2T*75					75	8		
HRT-D4*90° *2T*50			4	4	50	11	2.0	
HRT-D4*90° *2T*75					75	11		
HRT-D6*66° *2T*50	66°	2	6	6	50	15	3.0	
HRT-D6*70° *2T*50	70°				50	15		
HRT-D6*77° *2T*50	77°				50	15		
HRT-D6*80° *2T*50	80°				50	15		
HRT-D6*90° *2T*50	90°				50	15		
HRT-D6*66° *2T*100	66°				100	15		
HRT-D6*70° *2T*100	70°		100	15				
HRT-D6*77° *2T*100	77°		100	15				
HRT-D6*80° *2T*100	80°		100	15				
HRT-D6*90° *2T*100	90°		100	15				
HRT-D8*66° *2T*50	66°		8	8	60	20		4.0
HRT-D8*70° *2T*50	70°				60	20		
HRT-D8*77° *2T*50	77°				60	20		
HRT-D8*80° *2T*50	80°				60	20		
HRT-D8*90° *2T*50	90°	60			20			
HRT-D8*66° *2T*100	66°	100			20			
HRT-D8*70° *2T*100	70°	100			20			
HRT-D8*77° *2T*100	77°	100			20			
HRT-D8*80° *2T*100	80°	100	20					
HRT-D8*90° *2T*100	90°	100	20					
HRT-D10*55° *2T*75	55°	2	10	10	75	25	5.0	
HRT-D10*66° *2T*75	66°				75	25		
HRT-D10*70° *2T*75	70°				75	25		
HRT-D10*77° *2T*75	77°				75	25		
HRT-D10*80° *2T*75	80°				75	25		
HRT-D10*90° *2T*75	90°				75	25		
HRT-D10*100° *2T*75	100°				75	25		
HRT-D10*110° *2T*75	110°				75	25		
HRT-D10*70° *2T*100	70°				75	25		
HRT-D10*77° *2T*100	77°				75	25		
HRT-D10*80° *2T*100	80°				75	25		
HRT-D10*90° *2T*100	90°				75	25		
HRT-D10*100° *2T*100	100°				75	25		
HRT-D10*110° *2T*100	110°				75	25		

水电铣刀

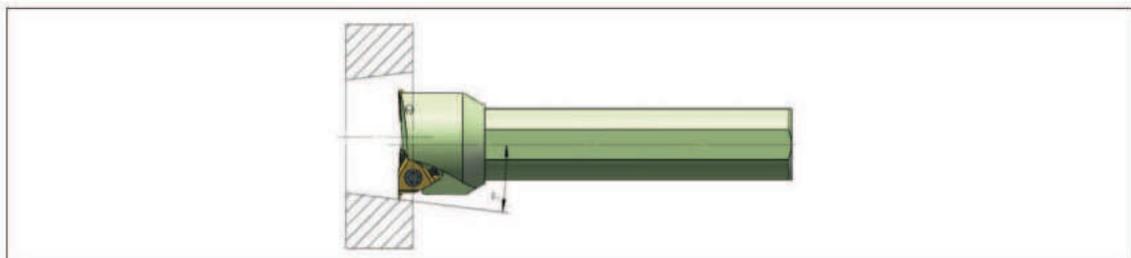


规格型号 Model No.	刀片 Insert	齿数 Z	尺寸 Dimension(mm)					重量 Weight(Kg)	
			D	d	H	Ae	B		联接形式
GXM 24420-R4-60R-XN12	XNE120440	24	420	60	50	95	8	C	18
GXM 24420-R5-60R-XN16	XNE160550	24	420	60	50	135	10	C	12
GXM 24465-R5-60R-XN16	XNE160550	24	465	60	50	150	10	C	14.8
GXM 22420-R6-60R-XN19	XNE190660	22	420	60	50	130	12	C	13.5

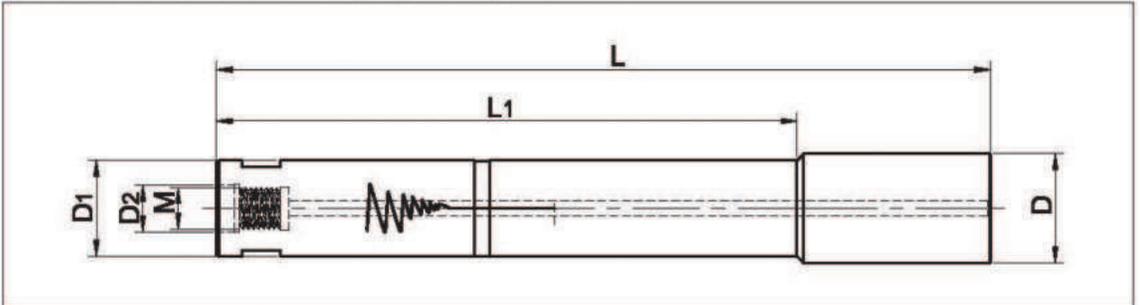
组合两面刃



汽车同步环刀车刀



减震刀杆 (内质减震器) -- Anti-vibration toolholder



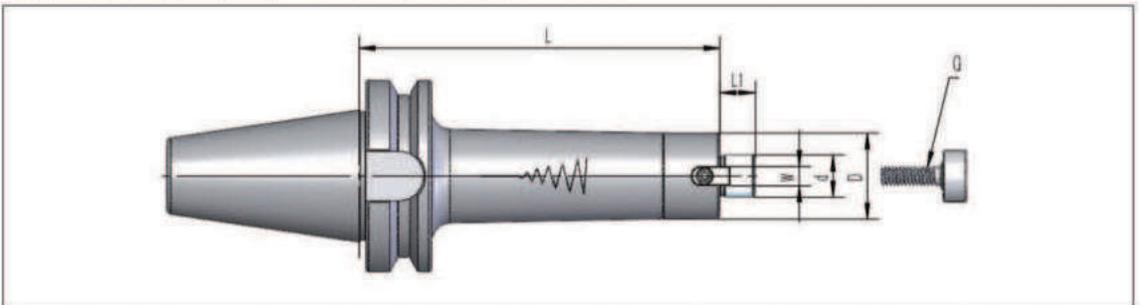
规格型号 Model No.	尺寸 Dimension(mm)					
	L	M	L1	D	D1	D2
C32-M16-250	250	M16*2.0	250	32	32	17
C42-M16-250	250	M16*2.0	175	42	36	17

产品展示
product display

减震刀杆可根据客户需求非标定制。
These tools can be based on customer needs non-standard customization.



减震刀柄 (内质减震器) -- Anti-vibration toolholder



规格型号 Model No.	尺寸 Dimension(mm)					
	L	L1	d	D	W	G
BT50-FMH22-400	400	18	22	45	10	M10
BT50-FMH27-317	317	20	27	61	12	M12
BT50-FMH31.75-414	414	21	31.75	73	9.5	M12

产品展示
product display

以上刀柄可根据客户需求非标定制。
These tools can be based on customer needs non-standard customization.





Product Identification 产品选型

G

G=Groove
Milling
装夹方式

06

Shank Diameter
柄部直径
06=6mm
08=8mm
10=10mm
12=12mm
16=16mm

06

Cutting
Diameter
切削直径
05=5mm
10=10mm

C

No. of Flutes
刀刃数量
C=3
D=4
E=5

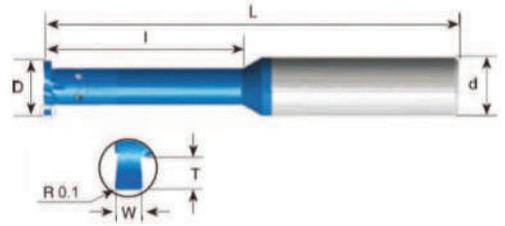
8

The Approximate
Cutting Length
切深长度
8=8mm
10=10mm
40=40mm

6

W=Groove Width
槽宽
08=0.8mm
10=1.0mm
R=Groove Radius
槽半径
05=0.5mm
06=0.6mm

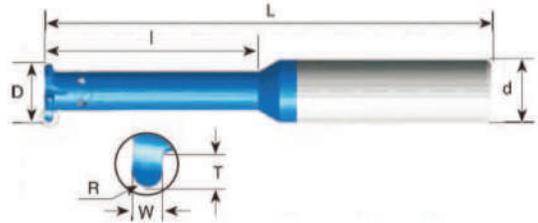
Groove Milling-槽铣刀



W ±0.02	T Max.	Groove Dia.(min)	规格型号 Model No.	No.of Flutes	尺寸 Dimension(mm)			
					D	d	I	L
0.80	0.8	∅ > 6	G0606C8 W08	3	6.0	6	8	58
1.00	1.2	∅ > 8	G08078D10 W10	4	7.8	8	10	64
1.20	1.4	∅ > 10	G10098D20 W12	4	9.8	10	20	73
1.40	1.8	∅ > 16	G1616E30 W14	5	16.0	16	30	101
1.70	2.0	∅ > 16	G1616E40 W17	5	16.0	16	40	101
1.95	2.2	∅ > 16	G1616E45 W19	5	16.0	16	45	101

Full Radius Groove Milling

全半径槽铣刀



R	W ±0.02	T Max.	Groove Dia.(min)	规格型号 Model No.	No.of Flutes	尺寸 Dimension(mm)			
						D	d	I	L
0.5	1.00	0.8	∅ > 6	G0606C8 R05	3	6.0	6	8	58
0.5	1.00	1.0	∅ > 8.8	G10088D16 R05	4	8.8	10	16	73
0.6	1.20	1.0	∅ > 10	G1010D20 R06	4	10.0	10	20	73
0.9	1.80	1.4	∅ > 12	G1212E30 R09	4	12.0	12	30	84
1.0	2.00	1.6	∅ > 16	G1616E40 R10	5	16.0	16	40	101
1.5	3.00	2.2	∅ > 16	G1616E40 R15	5	16.0	16	40	101



Product Identification 产品选型

MC

Mini Chamfer
微型倒角刀

03

Shank Diameter
柄部直径
03=3mm
04=4mm
05=5mm
06=6mm
08=8mm
10=10mm
12=12mm

015

Cutting Diameter
切削直径
015=1.5mm

C

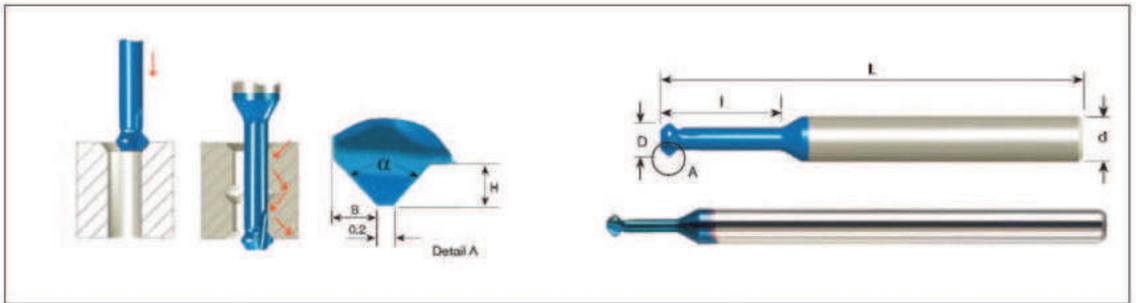
No. of Flutes
刀刃数量
C=3
D=4
E=5
F=6

3

The Approximate
Cutting Length
切削长度
8=8mm
10=10mm
40=40mm

A90

Profile Angle
A90=90°
A60=60°
A45=45°



45°

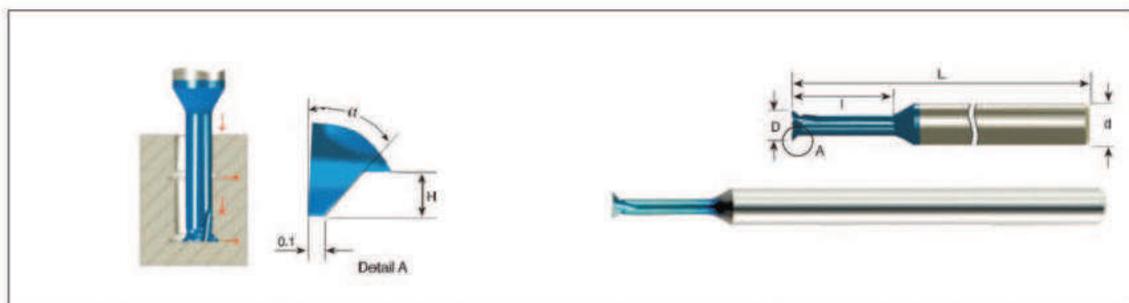
规格型号 Model No.	d	D	I	H	B	α	No. of Flutes	L
MC03015C3 A90	3	1.5	3.8	0.3	0.4	90°	3	39
MC0302C5 A90	3	2.0	5.0	0.4	0.5	90°	3	39
MC03025C6 A90	3	2.5	6.3	0.5	0.6	90°	3	39
MC0303C7 A90	3	3.0	7.5	0.6	0.7	90°	3	39
MC04035C9 A90	4	3.5	8.8	0.7	0.8	90°	3	51
MC0404C10 A90	4	4.0	10.0	0.8	0.9	90°	3	51
MC05045C11 A90	5	4.5	11.3	1.0	1.1	90°	3	51
MC0505C12 A90	5	5.0	12.5	1.1	1.2	90°	3	51
	6	5.5	13.8	1.2	1.3	90°	3	51
MC0606C15 A90	6	6.0	15.0	1.3	1.6	90°	3	51

Long Reach 45°

规格型号 Model No.	d	D	I	H	B	α	No. of Flutes	L
MC0303C12 A90	3	3.0	12.0	0.6	0.7	90°	3	39
MC04035C14 A90	4	3.5	14.0	0.7	0.8	90°	3	51
MC0404C16 A90	4	4.0	16.0	0.8	0.9	90°	3	51
MC05045C18 A90	5	4.5	18.0	1.0	1.1	90°	3	51
MC0505C20 A90	5	5.0	20.0	1.1	1.2	90°	3	51
MC06055C22 A90	6	5.5	22.0	1.2	1.3	90°	3	58
MC0606C24 A90	6	6.0	24.0	1.5	1.6	90°	3	58
MC0808D28 A90	8	8.0	28.0	1.6	1.7	90°	4	64
MC1010E35 A90	10	10.0	35.0	1.8	1.8	90°	5	73
MC1212F42 A90	12	12.0	42.0	2.1	2.2	90°	6	84

30°

规格型号 Model No.	d	D	I	H	B	α	No. of Flutes	L
MC0302C5 A60	3	2.0	5.0	0.4	0.3	60°	3	39
MC0303C7 A60	3	3.0	7.5	0.6	0.3	60°	3	39
MC04035C9 A60	4	3.5	8.8	0.7	0.5	60°	3	51
MC0404C10 A60	4	4.0	10.0	0.8	0.5	60°	3	51
MC05045C11 A60	5	4.5	11.3	1.0	0.6	60°	3	51
MC0505C12 A60	5	5.0	12.5	1.1	0.7	60°	3	51



Dovetail 45°

规格型号 Model No.	d	D	I	H	α	No. of Flutes	L
MC03015C4 A45	3	1.5	4.5	0.3	90°	3	39
MC0302C6 A45	3	2.0	6.0	0.4	90°	3	39
MC03025C7 A45	3	2.5	7.5	0.5	90°	3	39
MC0303C12 A45	3	3.0	12.0	0.6	90°	3	39
MC04035C14 A45	4	3.5	14.0	0.7	90°	3	51
MC0404C16 A45	4	4.0	16.0	0.8	90°	3	51
MC05045C18 A45	5	4.5	18.0	1.0	90°	3	51
MC0505C20 A45	5	5.0	20.0	1.1	90°	3	51
MC06055C22 A45	6	5.5	22.0	1.2	90°	3	51
MC0606C24 A45	6	6.0	24.0	1.5	90°	3	51

Special Solid Carbide Tools



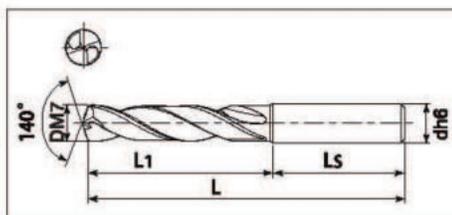
As part of being a service-orientated company,
Carmex produces specials according to
customer's requirements.

Special tools are supplied in short delivery times.



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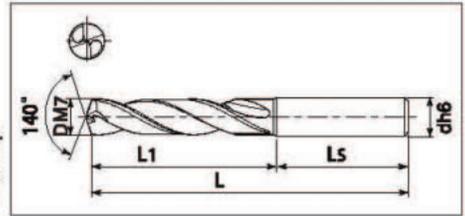
TD3 □□□

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 3030	3.0	6	62	20	42
FD 3031	3.1	6	62	20	42
FD 3032	3.2	6	62	20	42
FD 3033	3.3	6	62	20	42
FD 3034	3.4	6	62	20	42
FD 3035	3.5	6	62	20	42
FD 3036	3.6	6	62	20	42
FD 3037	3.7	6	62	20	42
FD 3038	3.8	6	66	24	42
FD 3039	3.9	6	66	24	42
FD 3040	4.0	6	66	24	42
FD 3041	4.1	6	66	24	42
FD 3042	4.2	6	66	24	42
FD 3043	4.3	6	66	24	42
FD 3044	4.4	6	66	24	42
FD 3045	4.5	6	66	24	42
FD 3046	4.6	6	66	24	42
FD 3047	4.7	6	66	24	42
FD 3048	4.8	6	66	28	38
FD 3049	4.9	6	66	28	38
FD 3050	5.0	6	68	30	38
FD 3051	5.1	6	68	30	38
FD 3052	5.2	6	68	30	38
FD 3053	5.3	6	68	30	38
FD 3054	5.4	6	68	30	38
FD 3055	5.5	6	68	30	38
FD 3056	5.6	6	68	30	38
FD 3057	5.7	6	68	30	38
FD 3058	5.8	6	68	30	38
FD 3059	5.9	6	68	30	38
FD 3060	6.0	6	68	30	38
FD 3061	6.1	8	73	35	38
FD 3062	6.2	8	73	35	38
FD 3063	6.3	8	73	35	38
FD 3064	6.4	8	73	35	38
FD 3065	6.5	8	73	35	38
FD 3066	6.6	8	73	35	38
FD 3067	6.7	8	73	35	38
FD 3068	6.8	8	73	35	38
FD 3069	6.9	8	73	35	38
FD 3070	7.0	8	73	35	38
FD 3071	7.1	8	79	41	38
FD 3072	7.2	8	79	41	38
FD 3073	7.3	8	79	41	38
FD 3074	7.4	8	79	41	38
FD 3075	7.5	8	79	41	38
FD 3076	7.6	8	79	41	38
FD 3077	7.7	8	79	41	38
FD 3078	7.8	8	79	41	38
FD 3079	7.9	8	79	41	38
FD 3080	8.0	8	79	41	38

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 3081	8.1	10	90	48	42
FD 3082	8.2	10	90	48	42
FD 3083	8.3	10	90	48	42
FD 3084	8.4	10	90	48	42
FD 3085	8.5	10	90	48	42
FD 3086	8.6	10	90	48	42
FD 3087	8.7	10	90	48	42
FD 3088	8.8	10	90	48	42
FD 3089	8.9	10	90	48	42
FD 3090	9.0	10	90	48	42
FD 3091	9.1	10	90	48	42
FD 3092	9.2	10	90	48	42
FD 3093	9.3	10	90	48	42
FD 3094	9.4	10	90	48	42
FD 3095	9.5	10	90	48	42
FD 3096	9.6	10	90	48	42
FD 3097	9.7	10	90	48	42
FD 3098	9.8	10	90	48	42
FD 3099	9.9	10	90	48	42
FD 3100	10.0	10	90	48	42
FD 3101	10.1	12	102	55	47
FD 3102	10.2	12	102	55	47
FD 3103	10.3	12	102	55	47
FD 3104	10.4	12	102	55	47
FD 3105	10.5	12	102	55	47
FD 3106	10.6	12	102	55	47
FD 3107	10.7	12	102	55	47
FD 3108	10.8	12	102	55	47
FD 3109	10.9	12	102	55	47
FD 3110	11.0	12	102	55	47
FD 3111	11.1	12	102	55	47
FD 3112	11.2	12	102	55	47
FD 3113	11.3	12	102	55	47
FD 3114	11.4	12	102	55	47
FD 3115	11.5	12	102	55	47
FD 3116	11.6	12	102	55	47
FD 3117	11.7	12	102	55	47
FD 3118	11.8	12	102	55	47
FD 3119	11.9	12	102	55	47
FD 3120	12.0	12	102	55	47
FD 3121	12.1	14	109	62	47
FD 3122	12.2	14	109	62	47
FD 3123	12.3	14	109	62	47
FD 3124	12.4	14	109	62	47
FD 3125	12.5	14	109	62	47
FD 3126	12.6	14	109	62	47
FD 3127	12.7	14	109	62	47
FD 3128	12.8	14	109	62	47
FD 3129	12.9	14	109	62	47
FD 3130	13.0	14	109	62	47
FD 3131	13.1	14	109	62	47

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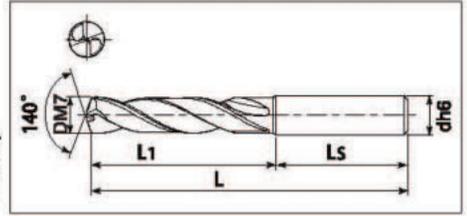
TD3 □□□

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 3132	13.2	14	109	82	47
FD 3133	13.3	14	109	82	47
FD 3134	13.4	14	109	82	47
FD 3135	13.5	14	109	82	47
FD 3136	13.6	14	109	82	47
FD 3137	13.7	14	109	82	47
FD 3138	13.8	14	109	82	47
FD 3139	13.9	14	109	82	47
FD 3140	14.0	14	109	82	47
FD 3141	14.1	16	118	88	50
FD 3142	14.2	16	118	88	50
FD 3143	14.3	16	118	88	50
FD 3144	14.4	16	118	88	50
FD 3145	14.5	16	118	88	50
FD 3146	14.6	16	118	88	50
FD 3147	14.7	16	118	88	50
FD 3148	14.8	16	118	88	50
FD 3149	14.9	16	118	88	50
FD 3150	15.0	16	118	88	50
FD 3151	15.1	16	118	88	50
FD 3152	15.2	16	118	88	50
FD 3153	15.3	16	118	88	50
FD 3154	15.4	16	118	88	50
FD 3155	15.5	16	118	88	50
FD 3156	15.6	16	118	88	50
FD 3157	15.7	16	118	88	50
FD 3158	15.8	16	118	88	50
FD 3159	15.9	16	118	88	50
FD 3160	16.0	16	118	88	50
FD 3161	16.1	18	125	75	50
FD 3162	16.2	18	125	75	50
FD 3163	16.3	18	125	75	50
FD 3164	16.4	18	125	75	50
FD 3165	16.5	18	125	75	50
FD 3166	16.6	18	125	75	50
FD 3167	16.7	18	125	75	50
FD 3168	16.8	18	125	75	50
FD 3169	16.9	18	125	75	50
FD 3170	17.0	18	125	75	50
FD 3171	17.1	18	125	75	50
FD 3172	17.2	18	125	75	50
FD 3173	17.3	18	125	75	50
FD 3174	17.4	18	125	75	50
FD 3175	17.5	18	125	75	50
FD 3176	17.6	18	125	75	50
FD 3177	17.7	18	125	75	50
FD 3178	17.8	18	125	75	50
FD 3179	17.9	18	125	75	50
FD 3180	18.0	18	125	75	50
FD 3181	18.1	20	134	82	52
FD 3182	18.2	20	134	82	52

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 3183	18.3	20	134	82	52
FD 3184	18.4	20	134	82	52
FD 3185	18.5	20	134	82	52
FD 3186	18.6	20	134	82	52
FD 3187	18.7	20	134	82	52
FD 3188	18.8	20	134	82	52
FD 3189	18.9	20	134	82	52
FD 3190	19.0	20	134	82	52
FD 3191	19.1	20	134	82	52
FD 3192	19.2	20	134	82	52
FD 3193	19.3	20	134	82	52
FD 3194	19.4	20	134	82	52
FD 3195	19.5	20	134	82	52
FD 3196	19.6	20	134	82	52
FD 3197	19.7	20	134	82	52
FD 3198	19.8	20	134	82	52
FD 3199	19.9	20	134	82	52
FD 3200	20.0	20	134	82	52

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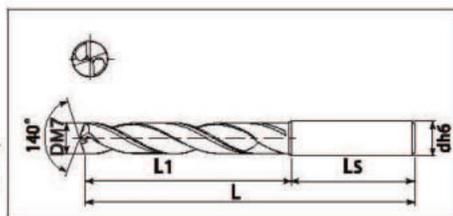
TD5 □□□

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 5030	3.0	6	66	28	38
FD 5031	3.1	6	66	28	38
FD 5032	3.2	6	66	28	38
FD 5033	3.3	6	66	28	38
FD 5034	3.4	6	66	28	38
FD 5035	3.5	6	66	28	38
FD 5036	3.6	6	66	28	38
FD 5037	3.7	6	66	28	38
FD 5038	3.8	6	74	36	38
FD 5039	3.9	6	74	36	38
FD 5040	4.0	6	74	38	38
FD 5041	4.1	6	74	36	38
FD 5042	4.2	6	74	36	38
FD 5043	4.3	6	74	36	38
FD 5044	4.4	6	74	36	38
FD 5045	4.5	6	74	36	38
FD 5046	4.6	6	74	36	38
FD 5047	4.7	6	74	36	38
FD 5048	4.8	6	82	44	38
FD 5049	4.9	6	82	44	38
FD 5050	5.0	6	84	46	38
FD 5061	5.1	6	84	46	38
FD 5052	5.2	6	84	46	38
FD 5053	5.3	6	84	46	38
FD 5054	5.4	6	84	46	38
FD 5055	5.5	6	84	46	38
FD 5056	5.6	6	84	46	38
FD 5057	5.7	6	84	46	38
FD 5058	5.8	6	84	46	38
FD 5059	5.9	6	84	46	38
FD 5060	6.0	6	84	46	38
FD 5081	6.1	8	94	56	38
FD 5082	6.2	8	94	56	38
FD 5083	6.3	8	94	56	38
FD 5084	6.4	8	94	56	38
FD 5085	6.5	8	94	56	38
FD 5086	6.6	8	94	56	38
FD 5087	6.7	8	94	56	38
FD 5088	6.8	8	94	56	38
FD 5089	6.9	8	94	56	38
FD 5070	7.0	8	94	56	38
FD 5071	7.1	8	94	56	38
FD 5072	7.2	8	94	56	38
FD 5073	7.3	8	94	56	38
FD 5074	7.4	8	94	56	38
FD 5075	7.5	8	94	56	38
FD 5076	7.6	8	94	56	38
FD 5077	7.7	8	94	56	38
FD 5078	7.8	8	94	56	38
FD 5079	7.9	8	94	56	38
FD 5080	8.0	8	94	56	38

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 5081	8.1	10	107	65	42
FD 5082	8.2	10	107	65	42
FD 5083	8.3	10	107	65	42
FD 5084	8.4	10	107	65	42
FD 5085	8.5	10	107	65	42
FD 5086	8.6	10	107	65	42
FD 5087	8.7	10	107	65	42
FD 5088	8.8	10	107	65	42
FD 5089	8.9	10	107	65	42
FD 5090	9.0	10	107	65	42
FD 5091	9.1	10	107	65	42
FD 5092	9.2	10	107	65	42
FD 5093	9.3	10	107	65	42
FD 5094	9.4	10	107	65	42
FD 5095	9.5	10	107	65	42
FD 5096	9.6	10	107	65	42
FD 5097	9.7	10	107	65	42
FD 5098	9.8	10	107	65	42
FD 5099	9.9	10	107	65	42
FD 5100	10.0	10	107	65	42
FD 5101	10.1	12	125	78	47
FD 5102	10.2	12	125	78	47
FD 5103	10.3	12	125	78	47
FD 5104	10.4	12	125	78	47
FD 5105	10.5	12	125	78	47
FD 5106	10.6	12	125	78	47
FD 5107	10.7	12	125	78	47
FD 5108	10.8	12	125	78	47
FD 5109	10.9	12	125	78	47
FD 5110	11.0	12	125	78	47
FD 5111	11.1	12	125	78	47
FD 5112	11.2	12	125	78	47
FD 5113	11.3	12	125	78	47
FD 5114	11.4	12	125	78	47
FD 5115	11.5	12	125	78	47
FD 5116	11.6	12	125	78	47
FD 5117	11.7	12	125	78	47
FD 5118	11.8	12	125	78	47
FD 5119	11.9	12	125	78	47
FD 5120	12.0	12	125	78	47
FD 5121	12.1	14	138	91	47
FD 5122	12.2	14	138	91	47
FD 5123	12.3	14	138	91	47
FD 5124	12.4	14	138	91	47
FD 5125	12.5	14	138	91	47
FD 5126	12.6	14	138	91	47
FD 5127	12.7	14	138	91	47
FD 5128	12.8	14	138	91	47
FD 5129	12.9	14	138	91	47
FD 5130	13.0	14	138	91	47
FD 5131	13.1	14	138	91	47
FD 5132	13.2	14	138	91	47

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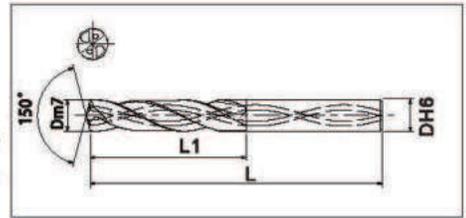
TD 5 □□□

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 5133	13.3	14	138	91	47
FD 5134	13.4	14	138	91	47
FD 5135	13.5	14	138	91	47
FD 5136	13.6	14	138	91	47
FD 5137	13.7	14	138	91	47
FD 5138	13.8	14	138	91	47
FD 5139	13.9	14	138	91	47
FD 5140	14.0	14	138	91	47
FD 5141	14.1	16	154	104	50
FD 5142	14.2	16	154	104	50
FD 5143	14.3	16	154	104	50
FD 5144	14.4	16	154	104	50
FD 5145	14.5	16	154	104	50
FD 5146	14.6	16	154	104	50
FD 5147	14.7	16	154	104	50
FD 5148	14.8	16	154	104	50
FD 5149	14.9	16	154	104	50
FD 5150	15.0	18	154	104	50
FD 5151	15.1	18	154	104	50
FD 5152	15.2	18	154	104	50
FD 5153	15.3	18	154	104	50
FD 5154	15.4	18	154	104	50
FD 5155	15.5	18	154	104	50
FD 5156	15.6	18	154	104	50
FD 5157	15.7	18	154	104	50
FD 5158	15.8	18	154	104	50
FD 5159	15.9	18	154	104	50
FD 5160	16.0	18	154	104	50
FD 5161	16.1	18	167	117	50
FD 5162	16.2	18	167	117	50
FD 5163	16.3	18	167	117	50
FD 5164	16.4	18	167	117	50
FD 5165	16.5	18	167	117	50

规格型号 Model No.	尺寸 Dimension (mm)				
	D	d	L	L1	LS
FD 5166	16.6	18	167	117	50
FD 5167	16.7	18	167	117	50
FD 5168	16.8	18	167	117	50
FD 5169	16.9	18	167	117	50
FD 5170	17.0	18	167	117	50
FD 5171	17.1	18	167	117	50
FD 5172	17.2	18	167	117	50
FD 5173	17.3	18	167	117	50
FD 5174	17.4	18	167	117	50
FD 5175	17.5	18	167	117	50
FD 5176	17.6	18	167	117	50
FD 5177	17.7	18	167	117	50
FD 5178	17.8	18	167	117	50
FD 5179	17.9	18	167	117	50
FD 5180	18.0	18	167	117	50
FD 5181	18.1	20	182	130	52
FD 5182	18.2	20	182	130	52
FD 5183	18.3	20	182	130	52
FD 5184	18.4	20	182	130	52
FD 5185	18.5	20	182	130	52
FD 5186	18.6	20	182	130	52
FD 5187	18.7	20	182	130	52
FD 5188	18.8	20	182	130	52
FD 5189	18.9	20	182	130	52
FD 5190	19.0	20	182	130	52
FD 5191	19.1	20	182	130	52
FD 5192	19.2	20	182	130	52
FD 5193	19.3	20	182	130	52
FD 5194	19.4	20	182	130	52
FD 5195	19.5	20	182	130	52
FD 5196	19.6	20	182	130	52
FD 5197	19.7	20	182	130	52
FD 5198	19.8	20	182	130	52
FD 5199	19.9	20	182	130	52
FD 5200	20.0	20	182	130	52

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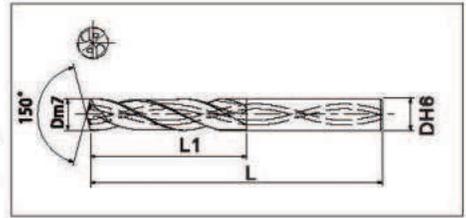
规格型号 Model No.	刃径	刃长	刃长	柄径
YD 3030	3.0	18	60	3
YD 3031	3.1	20		4
YD 3032	3.2			
YD 3033	3.3	22		
YD 3034	3.4			
YD 3035	3.5	24		
YD 3036	3.6			
YD 3037	3.7	24		
YD 3038	3.8			
YD 3039	3.9	26	5	
YD 3040	4.0			
YD 3041	4.1			
YD 3042	4.2			
YD 3043	4.3			
YD 3044	4.4			
YD 3045	4.5			
YD 3046	4.6			
YD 3047	4.7			
YD 3048	4.8			
YD 3049	4.9			
YD 3050	5.0	28	6	
YD 3051	5.1			
YD 3052	5.2			
YD 3053	5.3			
YD 3054	5.4			
YD 3055	5.5			
YD 3056	5.6	30		
YD 3057	5.7			
YD 3058	5.8			
YD 3059	5.9			
YD 3060	6.0	4	4	7
YD 3061	6.1			
YD 3062	6.2			
YD 3063	6.3			
YD 3064	6.4			
YD 3065	6.5			
YD 3066	6.6			

规格型号 Model No.	刃径	刃长	刃长	柄径
YD 3067	6.7	37	74	7
YD 3068	6.8			
YD 3069	6.9			
YD 3070	7.0			
YD 3071	7.1	40	79	8
YD 3072	7.2			
YD 3073	7.3			
YD 3074	7.4			
YD 3075	7.5			
YD 3076	7.6			
YD 3077	7.7			
YD 3078	7.8			
YD 3079	7.9			
YD 3080	8.0			
YD 3081	8.1			
YD 3082	8.2			
YD 3083	8.3			
YD 3084	8.4			
YD 3085	8.5			
YD 3086	8.6			
YD 3087	8.7			
YD 3088	8.8			
YD 3089	8.9			
YD 3090	9.0	47	89	10
YD 3091	9.1			
YD 3092	9.2			
YD 3093	9.3			
YD 3094	9.4			
YD 3095	9.5			
YD 3096	9.6			
YD 3097	9.7			
YD 3098	9.8			
YD 3099	9.9			
YD 3100	10.0	51	95	11
YD 3101	10.1			
YD 3102	10.2			
YD 3103	10.3			

公差	直径				
	1-3	3-6	6-10	10-18	18-30
切削刃	0-14	0-18	0-22	0-27	0-33
刃柄	0-6	0-8	0-9	0-11	0-13

高强度钻头，加工刚性好，独特槽型设计，排屑流畅，钻头芯径设计坚固，耐磨性好，PVD涂层，可提高刀具寿命保证高效加工，无需定心钻削，可以重复修磨

High stiffness with optimized web size enables powerful machining. Unique design provides good chip evacuation. More positive machining near drill point by cross thinning reduces resistance. PVD grade, guarantees long tool life and high productivity. No need for center drilling and easy regrinding.



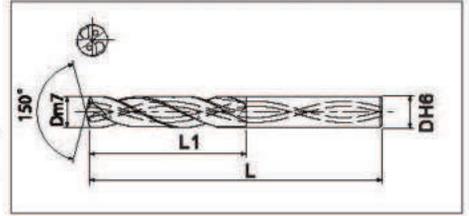
规格型号 Model No.	刃径	刃长	刃长	柄径
YD 3104	10.4	51	95	11
YD 3105	10.5			
YD 3106	10.6			
YD 3107	10.7			
YD 3108	10.8			
YD 3109	10.9			
YD 3110	11.0			
YD 3111	11.1			
YD 3112	11.2			
YD 3113	11.3			
YD 3114	11.4			
YD 3115	11.5	54	102	12
YD 3116	11.6			
YD 3117	11.7			
YD 3118	11.8			
YD 3119	11.9			
YD 3120	12.0			
YD 3121	12.1			
YD 3122	12.2			
YD 3123	12.3			
YD 3124	12.4			
YD 3125	12.5	57	102	13
YD 3126	12.6			
YD 3127	12.7			
YD 3128	12.8			
YD 3129	12.9			
YD 3130	13.0			
YD 3131	13.1			
YD 3132	13.2			
YD 3133	13.3			
YD 3134	13.4			
YD 3135	13.5	60	107	14
YD 3136	13.6			
YD 3137	13.7			
YD 3138	13.8			
YD 3139	13.9			
YD 3140	14.0			

规格型号 Model No.	刃径	刃长	刃长	柄径
YD 3141	14.1	62	111	15
YD 3142	14.2			
YD 3143	14.3			
YD 3144	14.4			
YD 3145	14.5			
YD 3146	14.6			
YD 3147	14.7			
YD 3148	14.8			
YD 3149	14.9			
YD 3150	15.0			
YD 3151	15.1	64	115	16
YD 3152	15.2			
YD 3154	15.4			
YD 3155	15.5			
YD 3156	15.6			
YD 3157	15.7			
YD 3158	15.8			
YD 3160	16.0			
YD 3181	18.1			
YD 3183	18.3			
YD 3165	16.5	66	119	17
YD 3170	17.0			
YD 3171	17.1			
YD 3172	17.2			
YD 3175	17.5			
YD 3177	17.7			
YD 3178	17.8			
YD 3180	18.0			
YD 3181	18.1			
YD 3182	18.2			
YD 3185	18.5	70	127	19
YD 3190	19.0			
YD 3191	19.1			
YD 3195	19.5			
YD 3197	19.7			
YD 3200	20.0			

公差	直径				
	1-3	3-6	6-10	10-18	18-30
切削刃	0-14	0-16	0-22	0-27	0-33
刃柄	0-8	0-8	0-9	0-11	0-13

高强度钻头，加工刚性好，独特槽型设计，排屑流畅，钻头芯径设计坚固，耐磨性好，PVD涂层，可提高刀具寿命保证高效加工，无需定心钻削，可以重复修磨

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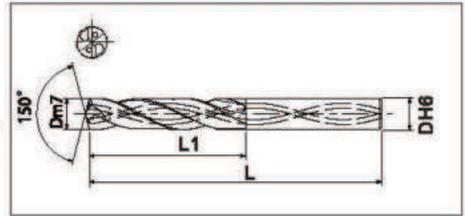
规格型号 Model No.	刃径	刃长	全长	柄径
YD 5031	3.1	27	74	4
YD 5032	3.2			
YD 5033	3.3			
YD 5034	3.4			
YD 5035	3.5			
YD 5036	3.6			
YD 5037	3.7			
YD 5038	3.8			
YD 5039	3.9			
YD 5040	4.0			
YD 5041	4.1	33	80	5
YD 5042	4.2			
YD 5043	4.3			
YD 5044	4.4			
YD 5045	4.5			
YD 5046	4.6			
YD 5047	4.7			
YD 5048	4.8			
YD 5049	4.9			
YD 5050	5.0			
YD 5051	5.1	39	87	6
YD 5052	5.2			
YD 5053	5.3			
YD 5054	5.4			
YD 5055	5.5			
YD 5056	5.6			
YD 5057	5.7			
YD 5058	5.8			
YD 5059	5.9			
YD 5060	6.0			
YD 5061	6.1	43	95	7
YD 5062	6.2			
YD 5063	6.3			
YD 5064	6.4			
YD 5065	6.5			
YD 5066	6.6			
YD 5067	6.7			

规格型号 Model No.	刃径	刃长	全长	柄径		
YD 5068	6.8	47	95	7		
YD 5069	6.9					
YD 5070	7.0					
YD 5071	7.1	52			103	8
YD 5072	7.2					
YD 5073	7.3					
YD 5074	7.4					
YD 5075	7.5					
YD 5076	7.6					
YD 5077	7.7					
YD 5078	7.8					
YD 5079	7.9					
YD 5080	8.0					
YD 5081	8.1	56	105	9		
YD 5082	8.2					
YD 5083	8.3					
YD 5084	8.4					
YD 5085	8.5					
YD 5086	8.6					
YD 5087	8.7					
YD 5088	8.8					
YD 5089	8.9					
YD 5090	9.0					
YD 5091	9.1	62	108	10		
YD 5092	9.2					
YD 5093	9.3					
YD 5094	9.4					
YD 5095	9.5					
YD 5096	9.6					
YD 5097	9.7					
YD 5098	9.8					
YD 5099	9.9					
YD 5100	10.0					
YD 5101	10.1	68	125	11		
YD 5102	10.2					
YD 5103	10.3					
YD 5104	10.4					

直径 公差	1-3	3-6	6-10	10-18	18-30
	切削刃	0-14	0-18	0-22	0-27
刃柄	0-6	0-8	0-9	0-11	0-13

高强度钻头，加工刚性好，独特槽型设计，排屑流畅，钻头芯径设计坚固，耐磨性好，PVD涂层，可提高刀具寿命保证高效加工，无需定心钻削，可以重复修磨

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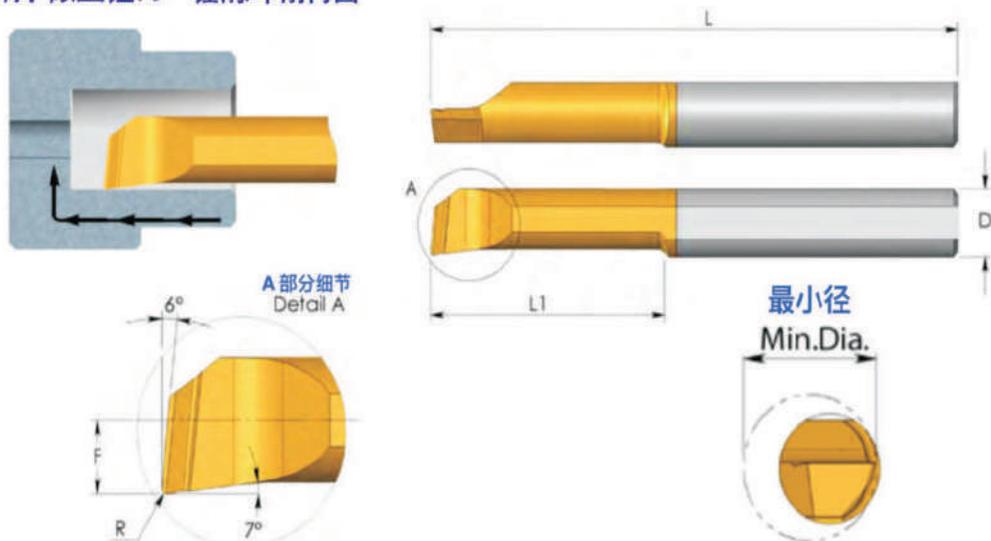


规格型号 Model No.	刃径	刃长	全长	柄径
YD 5105	10.5	68	125	11
YD 5106	10.6			
YD 5107	10.7			
YD 5108	10.8			
YD 5109	10.9			
YD 5110	11.0			
YD 5111	11.1	71	133	12
YD 5112	11.2			
YD 5113	11.3			
YD 5114	11.4			
YD 5115	11.5			
YD 5116	11.6			
YD 5117	11.7			
YD 5118	11.8			
YD 5119	11.9			
YD 5120	12.0			
YD 5121	12.1	75	137	13
YD 5122	12.2			
YD 5123	12.3			
YD 5124	12.4			
YD 5125	12.5			
YD 5126	12.6			
YD 5127	12.7			
YD 5128	12.8			
YD 5129	12.9			
YD 5130	13.0			
YD 5131	13.1	80	142	14
YD 5132	13.2			
YD 5133	13.3			
YD 5134	13.4			
YD 5135	13.5			
YD 5136	13.8			
YD 5137	13.7			
YD 5138	13.8			
YD 5139	13.9			
YD 5140	14.0			

规格型号 Model No.	刃径	刃长	全长	柄径			
YD 5141	14.1	83	148	15			
YD 5142	14.2						
YD 5143	14.3						
YD 5144	14.4						
YD 5145	14.5						
YD 5146	14.6						
YD 5147	14.7						
YD 5148	14.8						
YD 5149	14.9						
YD 5150	15.0						
YD 5151	15.1	90	152	16			
YD 5152	15.2						
YD 5154	15.4						
YD 5155	15.5						
YD 5156	15.6						
YD 5157	15.7						
YD 5158	15.8						
YD 5160	16.0						
YD 5161	16.1						
YD 5163	16.3						
YD 5165	16.5	95	155	17			
YD 5170	17.0						
YD 5171	17.1						
YD 5172	17.2						
YD 5175	17.5						
YD 5177	17.7						
YD 5178	17.8						
YD 5180	18.0						
YD 5181	18.1						
YD 5182	18.2						
YD 5185	18.5	100	157	18			
YD 5180	19.0						
YD 5191	19.1						
YD 5195	19.5						
YD 5197	19.7						
YD 5200	20.0						
YD 5181	18.1				105	160	19
YD 5182	18.2						
YD 5185	18.5						
YD 5180	19.0						
YD 5191	19.1						
YD 5195	19.5						
YD 5197	19.7						
YD 5200	20.0						
YD 5181	18.1	110	163	20			
YD 5182	18.2						
YD 5185	18.5						
YD 5180	19.0						
YD 5191	19.1						
YD 5195	19.5						
YD 5197	19.7						
YD 5200	20.0						

公差	直径				
	1-3	3-6	6-10	10-18	18-30
切削刃	0-14	0-18	0-22	0-27	0-33
刃柄	0-6	0-8	0-9	0-11	0-13

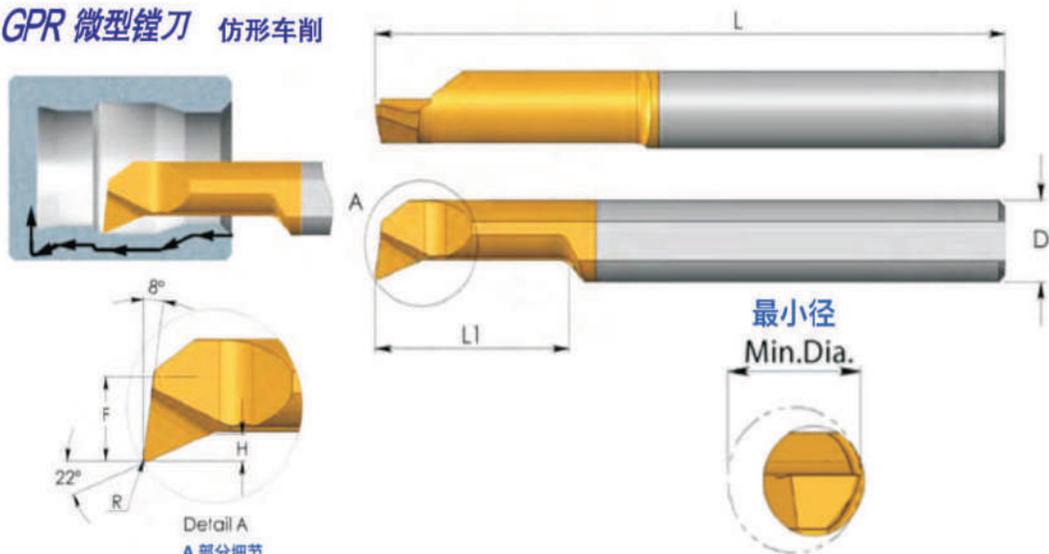
GTR 微型镗刀 镗削/车削内圆



柄径 D	订货号	尺寸 (mm)					加工 最小孔径
		F	L1	L	刀尖到 刀背距离	R	
4.0	GTR 1 R0.05 L4	0.5	4.0	50	1	0.05	1.0
4.0	GTR 1.5 R0.1 L6	0.7	6.0	50	1.45	0.1	1.5
4.0	GTR 2 R0.1/R0.2 L10	0.8	10.0	50	1.8	0.1/0.2	2.1
4.0	GTR 2 R0.1/R0.2 L15	0.8	15.0	50	1.8	0.1/0.2	2.1
4.0	GTR 3 R0.1/R0.2 L10	1.3	10.0	50	2.8	0.1/0.2	3.1
4.0	GTR 3 R0.1/R0.2 L15	1.3	15.0	50	2.8	0.1/0.2	3.1
4.0	GTR 4 R0.1/R0.2 L10	1.7	10.0	50	3.7	0.1/0.2	4.1
4.0	GTR 4 R0.1/R0.2 L15	1.7	15.0	50	3.7	0.1/0.2	4.1
6.0	GTR 5 R0.1/R0.2 L15	2.1	15.0	50	4.6	0.1/0.2	5.1
6.0	GTR 5 R0.1/R0.2 L22	2.1	22.0	50	4.6	0.1/0.2	5.1
6.0	GTR 6 R0.1/R0.2 L15	2.8	15.0	50	5.8	0.1/0.2	6.1
6.0	GTR 6 R0.1/R0.2 L22	2.8	22.0	50	5.8	0.1/0.2	6.1
8.0	GTR 8 R0.1/R0.2 L22	3.8	22.0	60	7.8	0.1/0.2	8.1
8.0	GTR 8 R0.1/R0.2 L30	3.8	30.0	60	7.8	0.1/0.2	8.1

- 1、订货示例: GTR 1 R0.05 L4
- 2、如需左手刀请将GTR改成MTL
- 3、接受非标定制

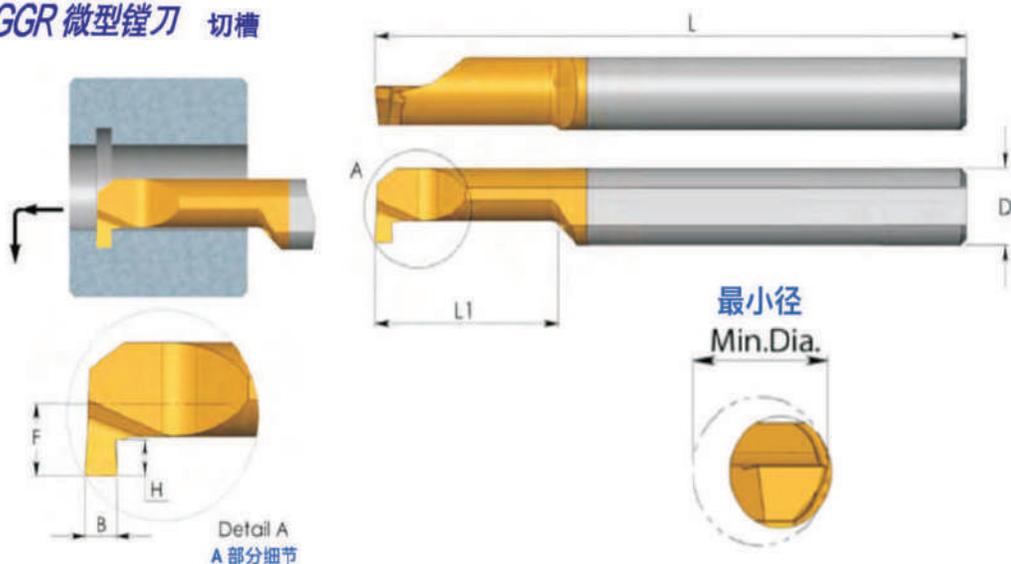
GPR 微型镗刀 仿形车削



柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	H	刀尖到 刀背距离	R	
4.0	GPR 1 R0.05 L4	0.5	4.0	50	0.2	1	0.05	1.0
4.0	GPR 1.5 R0.1 L6	0.7	6.0	50	0.3	1.45	0.1	1.5
4.0	GPR 2 R0.1/R0.2 L10	0.8	10.0	50	0.5	1.8	0.1/0.2	2.1
4.0	GPR 2 R0.1/R0.2 L15	0.8	15.0	50	0.5	1.8	0.1/0.2	2.1
4.0	GPR 3 R0.1/R0.2 L10	1.3	10.0	50	0.7	2.8	0.1/0.2	3.1
4.0	GPR 3 R0.1/R0.2 L15	1.3	15.0	50	0.7	2.8	0.1/0.2	3.1
4.0	GPR 4 R0.1/R0.2 L10	1.7	10.0	50	0.8	3.7	0.1/0.2	4.1
4.0	GPR 4 R0.1/R0.2 L15	1.7	15.0	50	0.8	3.7	0.1/0.2	4.1
6.0	GPR 5 R0.1/R0.2 L15	2.1	15.0	50	1.2	4.6	0.1/0.2	5.1
6.0	GPR 5 R0.1/R0.2 L22	2.1	22.0	50	1.2	4.6	0.1/0.2	5.1
6.0	GPR 6 R0.1/R0.2 L15	2.8	15.0	50	1.4	5.8	0.1/0.2	6.1
6.0	GPR 6 R0.1/R0.2 L22	2.8	22.0	50	1.4	5.8	0.1/0.2	6.1
8.0	GPR 8 R0.1/R0.2 L22	3.8	22.0	60	1.6	7.8	0.1/0.2	8.1
8.0	GPR 8 R0.1/R0.2 L30	3.8	30.0	60	1.6	7.8	0.1/0.2	8.1

- 1、订货示例: GPR 1 R0.05 L4
- 2、如需左手刀请将MPR改成MPL
- 3、接受非标定制

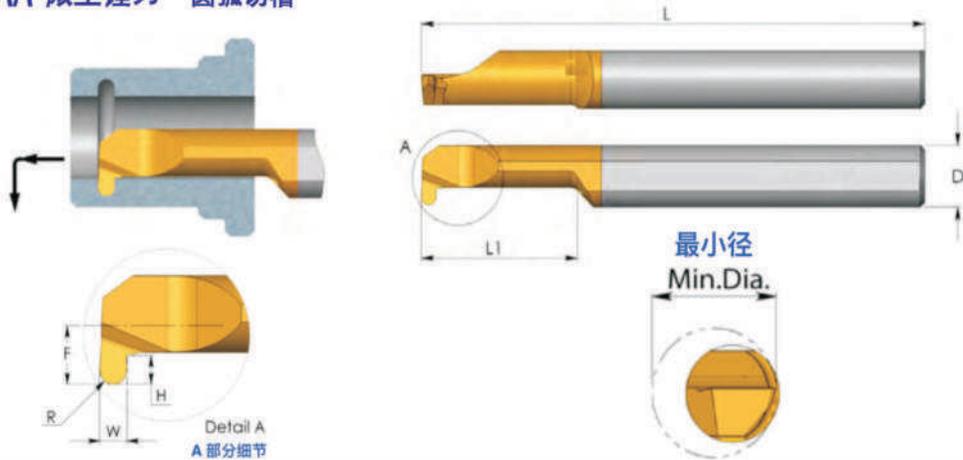
GGR 微型镗刀 切槽



柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	H	刀尖到 刀背距离	B	
4.0	GGR 3 B0.7 L10	1.3	10.0	50	0.6	2.8	0.7	3.1
4.0	GGR 4 B1.0/1.5 L10	1.7	10.0	50	1.0	3.7	1.0/1.5	4.1
4.0	GGR 4 B1.0/1.5 L15	1.7	15.0	50	1.0	3.7	1.0/1.5	4.1
6.0	GGR 5 B1.0/1.5/2.0 L15	2.3	15.0	50	1.2	4.8	1.0/1.5/2.0	5.1
6.0	GGR 5 B1.0/1.5/2.0 L22	2.3	22.0	50	1.2	4.8	1.0/1.5/2.0	5.1
6.0	GGR 6 B1.0/1.5/2.0 L15	2.8	15.0	50	1.4	5.8	1.0/1.5/2.0	6.1
6.0	GGR 6 B1.0/1.5/2.0 L22	2.8	22.0	50	1.4	5.8	1.0/1.5/2.0	6.1
8.0	GGR 8 B1.0/1.5/2.0 L22	3.8	22.0	60	1.7	7.8	1.0/1.5/2.0	8.1
8.0	GGR 8 B1.0/1.5/2.0 L30	3.8	22.0	60	1.7	7.8	1.0/1.5/2.0	8.1
8.0	GGR 8 B2.5/3.0 L22	3.8	22.0	60	2.6	7.8	2.5/3.0	8.1

- 1、订货示例: GGR 3 B0.7 L10
- 2、如需左手刀请将MGR改成MGL
- 3、接受非标定制

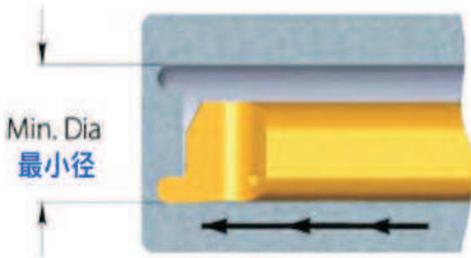
GKR 微型镗刀 圆弧切槽



柄径 D	订货号	尺寸 (mm)							加工 最小孔径
		F	L1	L	R	H	刀尖到 刀背距离	W	
4.0	GKR 4 R0.5 L10	1.7	10.0	50	0.5	1.0	3.7	1.0	4.1
4.0	GKR 4 R0.5 L15	1.7	15.0	50	0.5	1.0	3.7	1.0	4.1
4.0	GKR 4 R0.75 L10	1.7	10.0	50	0.8	1.0	3.7	1.5	4.1
4.0	GKR 4 R0.75 L15	1.7	15.0	50	0.8	1.0	3.7	1.5	4.1
6.0	GKR 5 R0.5 L15	2.3	15.0	50	0.5	1.2	4.8	1.0	5.1
6.0	GKR 5 R0.75 L15	2.3	15.0	50	0.8	1.2	4.8	1.5	5.1
6.0	GKR 5 R1.0 L15	2.3	15.0	50	1.0	1.2	4.8	2.0	5.1
6.0	GKR 5 R0.5 L22	2.3	22.0	50	0.5	1.2	4.8	1.0	5.1
6.0	GKR 5 R0.75 L22	2.3	22.0	50	0.8	1.2	4.8	1.5	5.1
6.0	GKR 5 R1.0 L22	2.3	22.0	50	1.0	1.2	4.8	2.0	5.1
6.0	GKR 6 R0.5 L15	2.8	15.0	50	0.5	1.6	5.8	1.0	6.1
6.0	GKR 6 R0.75 L15	2.8	15.0	50	###	1.6	5.8	1.5	6.1
6.0	GKR 6 R1.0 L15	3.8	15.0	50	1.0	1.6	5.8	2.0	6.1
6.0	GKR 6 R0.5 L22	2.8	22.0	50	0.5	1.6	5.8	1.0	6.1
6.0	GKR 6 R0.75 L22	2.8	22.0	50	###	1.6	5.8	1.5	6.1
6.0	GKR 6 R1.0 L22	3.8	22.0	50	1.0	1.6	5.8	2.0	6.1
8.0	GKR 8 R0.5 L22	3.8	22.0	60	0.5	2.5	7.8	1.0	8.1
8.0	GKR 8 R0.75 L22	3.8	22.0	60	###	2.5	8.8	1.5	8.1
8.0	GKR 8 R1.0 L22	3.8	22.0	60	1.0	2.5	9.8	2.0	8.1

- 1、订货示例: GKR 4 R0.5 L10
- 2、如需左手刀请将MKR改成MKL
- 3、接受非标定制

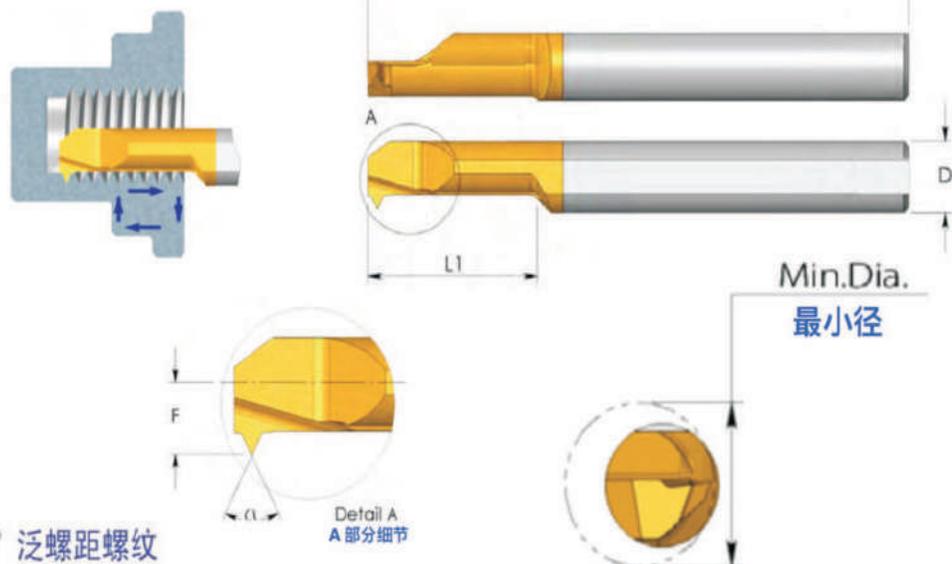
GFL 微型铣刀 圆弧切槽



柄径 D	订货号	尺寸 (mm)					加工 最小孔 径
		F	L1	L	T	B	
4.0	GFL 4 B0.75/1.0/1.5 L15	1.95	15.0	50	1.2/1.5/2.8	1.0/1.5	5.0
6.0	GFL 5 B1.0/1.5/2.0 L22	2.45	22.0	50	1.5/2.5/3.8	1.0/1.5/2.0	6.0
6.0	GFL 6 B1.0/1.5/2.0/2.5 L22	2.95	22.0	50	1.5/2.5/3.0/4.8	1.0/1.5/2.0/2.5	8.0
6.0	GFL 6 B3.0 L30	2.95	30.0	60	6.0	3.0	8.0
8.0	GFL 8 B2.5 L22	3.95	22.0	60	3.5	2.5	10.0

- 1、订货示例:GFL 4 B0.75 L15
- 2、接受非标定制

GIR 微型镗刀 螺纹加工

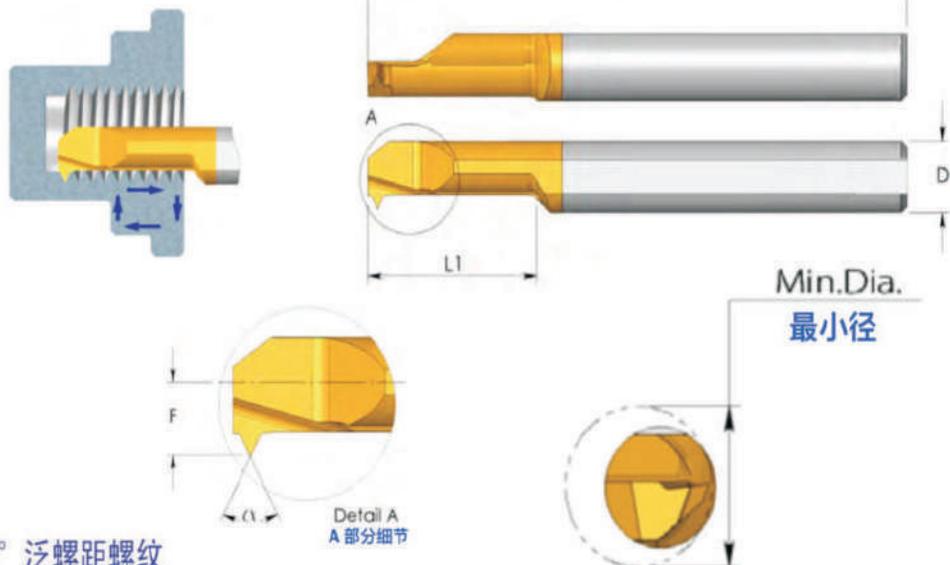


60° 泛螺距螺纹

柄径 D	订货号	尺寸 (mm)							加工 最小孔径
		F	L1	L	α	刀尖到 刀背距离	螺距		
							mm	牙数/英寸	
4.0	GIR 3 L10 A60	1.40	10.0	50	60°	2.9	0.8~1.0	32~24	3.2
4.0	GIR 3 L15 A60	1.40	15.0	50	60°	2.9	0.8~1.0	32~24	3.2
4.0	GIR 4 L10 A60	1.80	10.0	50	60°	3.8	0.8~1.0	32~24	4.1
4.0	GIR 4 L15 A60	1.80	15.0	50	60°	3.8	0.8~1.0	32~24	4.1
6.0	GIR 5 L15 A60	2.30	15.0	50	60°	4.8	1.0~1.25	24~20	5.1
6.0	GIR 5 L22 A60	2.30	22.0	50	60°	4.8	1.0~1.25	24~20	5.1
6.0	GIR 6 L15 A60	2.60	15.0	50	60°	5.6	1.0~1.5	24~16	6.0
6.0	GIR 6 L22 A60	2.60	22.0	50	60°	5.6	1.0~1.5	24~16	6.0
8.0	GIR 8 L22 A60	3.60	22.0	60	60°	7.6	1.0~2.0	24~13	8.0
8.0	GIR 8 L30 A60	3.60	30.0	60	60°	7.6	1.0~2.0	24~13	8.0

- 1、订货示例: GIR 3 L15 60
- 2、如需左手刀请将GIR改成MIL
- 3、接受非标定制

GIR 微型镗刀 螺纹加工

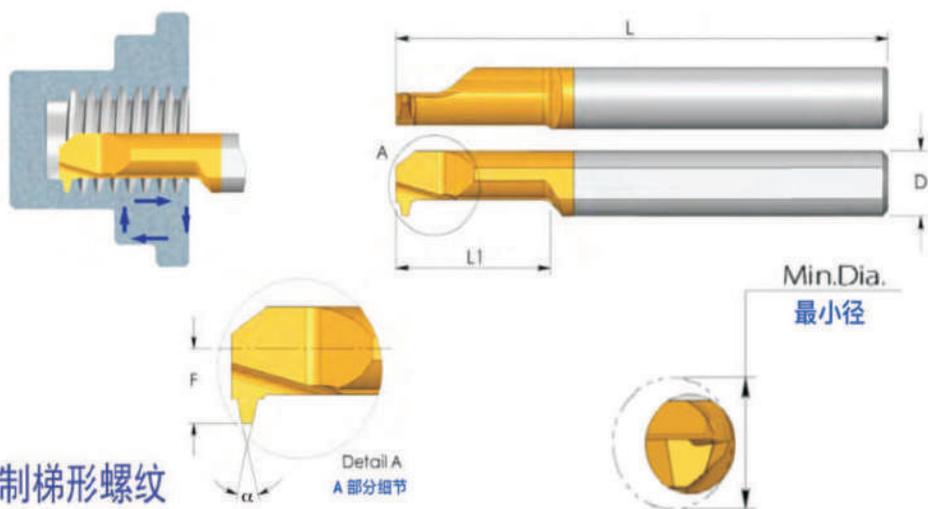


55° 泛螺距螺纹

柄径 D	订货号	尺寸 (mm)							加工 最小孔径
		F	L1	L	α	刀尖到 刀背距离	螺距		
							mm	牙数/英寸	
4.0	GIR 3 L15 A55	1.40	15.0	50	55°	2.9	0.5~1.0	48~24	3.2
4.0	GIR 4 L15 A55	1.80	15.0	50	55°	3.8	0.5~1.0	48~24	4.1
6.0	GIR 5 L15 A55	2.30	15.0	50	55°	4.8	0.5~1.25	48~20	5.1
6.0	GIR 5 L22 A55	2.30	22.0	50	55°	4.8	0.5~1.25	48~20	5.1
6.0	GIR 6 L15 A55	2.60	15.0	50	55°	5.6	0.5~1.5	48~16	6.0
6.0	GIR 6 L22 A55	2.60	22.0	50	55°	5.6	0.5~1.5	48~16	6.0
8.0	GIR 8 L22 A55	3.60	22.0	60	55°	7.6	1.0~2.0	24~13	8.0
8.0	GIR 8 L30 A55	3.60	30.0	60	55°	7.6	1.0~2.0	24~13	8.0

- 1、订货示例: GIR 3 L15 A55
- 2、如需左手刀请将MKR改成MKL
- 3、接受非标定制

GIR 微型镗刀 螺纹加工

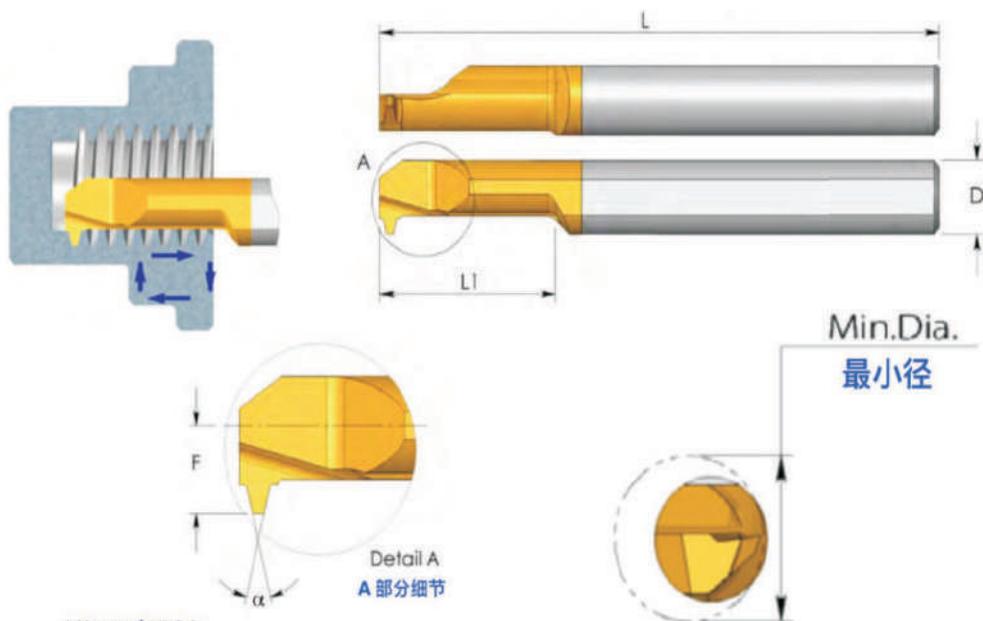


公制梯形螺纹

柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	α	刀尖到 刀背距离	螺距规格	
6.0	GIR 6 L22 1.5TR	2.8	22.0	50	30°	5.8	TR8×1.5 TR9×1.5 TR10×1.5	6.4
7.0	GIR 7 L25 2.0TR	3.2	25.0	60	30°	6.7	TR9×2.0 TR10×2.0 TR11×2.0	6.9
7.0	GIR 7 L35 2.0TR	3.3	35.0	75	30°	6.8	TR11×3.0 TR12×3.0	7.5
10.0	GIR 10 L35 2.0TR	4.8	35.0	75	30°	9.8	TR14×2.0 TR16×2.0 TR18×2.0	11.0
10.0	GIR 10 L35 3.0TR	4.8	35.0	75	30°	9.8	TR14×3.0 TR22×3.0 TR24×3.0	10.5
10.0	GIR 10 L45 4.0TR	4.8	45.0	100	30°	9.8	TR16×4.0 TR18×4.0 TR20×4.0	11.5
10.0	GIR 10 L55 5.0TR	4.8	55.0	100	30°	9.8	TR22×5.0 TR24×5.0 TR28×5.0	11.0

- 1、订货示例: GIR 6 L22 1.5TR
- 2、如需左手刀请将GIR改成MIL
- 3、接受非标定制

GIR 微型镗刀 螺纹加工

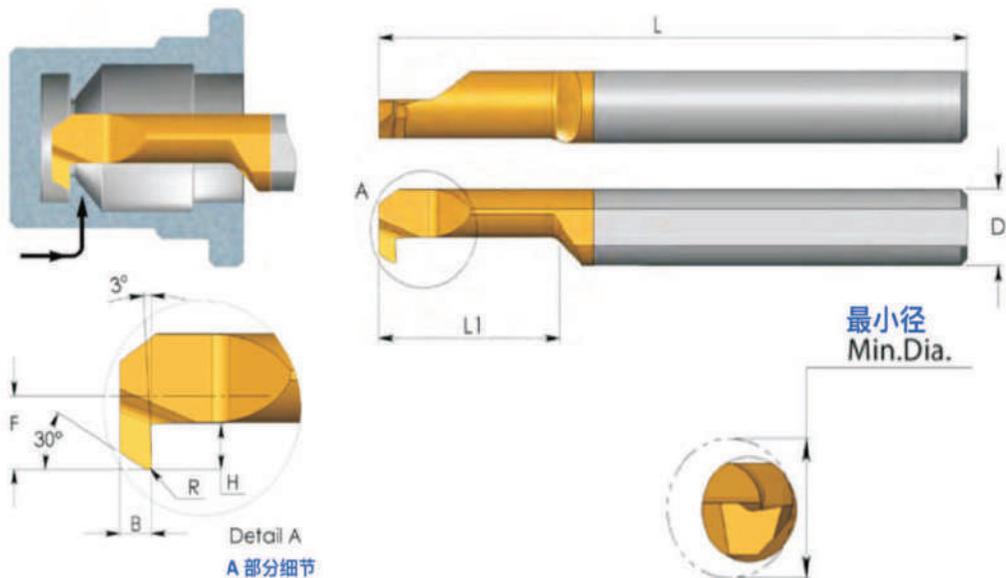


Acme 梯形螺纹

柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	α	刀尖到 刀背距离	螺距规格	
4.0	GIR 4 L15 16 ACME	1.8	15.0	50	29°	3.8	1/4×16	5.2
6.0	GIR 6 L20 14 ACME	2.8	20.0	50	29°	5.8	5/16×14	6.6
8.0	GIR 7 L22 12 ACME	3.3	22.0	60	29°	6.8	3/8×12 7/16×12	8.1
8.0	GIR 8 L30 10 ACME	3.8	30.0	60	29°	7.8	1/2×10	11.0
10.0	GIR 10 L35 8 ACME	4.8	35.0	75	30°	9.8	5/8×8	13.8
10.0	GIR 10 L35 8 ACME	4.8	45.0	100	30°	9.8	3/4×6 7/8×6	16.3

- 1、订货示例: GIR 4 L15 ACME
- 2、如需左手刀请将GIR改成MIL
- 3、接受非标定制

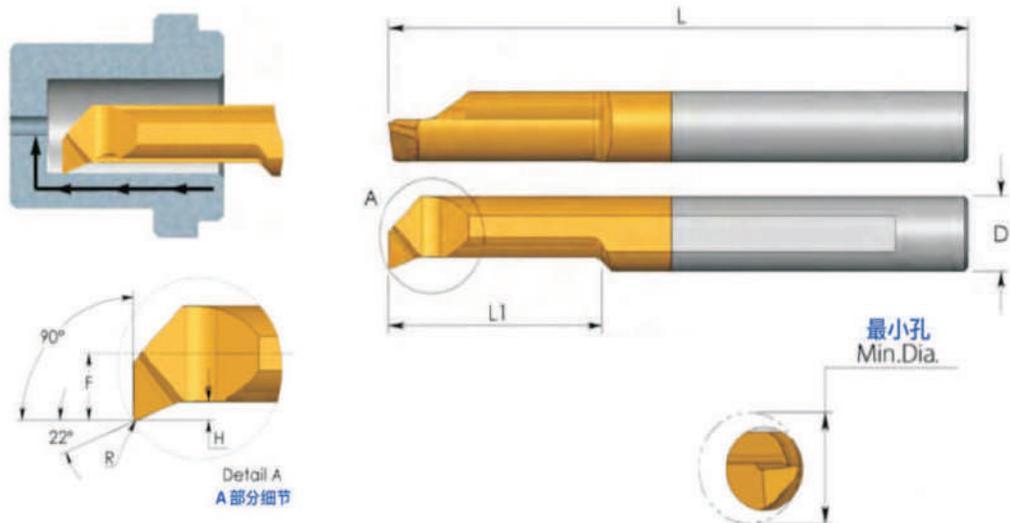
GXR 微型镗刀 反向镗削/车削内圆



柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	H	刀尖到 刀背距离	R	
4.0	GXR 3 R0.1 L10	1.3	10.0	50	0.5	2.8	0.1	3.1
4.0	GXR 4 R0.1/R0.2 L10	1.6	10.0	50	0.8	3.6	0.1/0.2	4.1
4.0	GXR 4 R0.1/R0.2 L15	1.6	15.0	50	0.8	3.6	0.1/0.2	4.1
6.0	GXR 5 R0.2 L15	2.2	15.0	50	1.0	4.7	0.2	5.1
6.0	GXR 5 R0.2 L22	2.2	22.0	50	1.0	4.7	0.2	5.1
6.0	GXR 6 R0.2 L15	2.8	15.0	50	1.8	5.8	0.2	6.1
6.0	GXR 6 R0.2 L22	2.8	22.0	50	1.8	5.8	0.2	6.1

- 1、订货示例: GXR 4 R0.1 L10
- 2、如需左手刀请将MXR改成MXL
- 3、接受非标定制

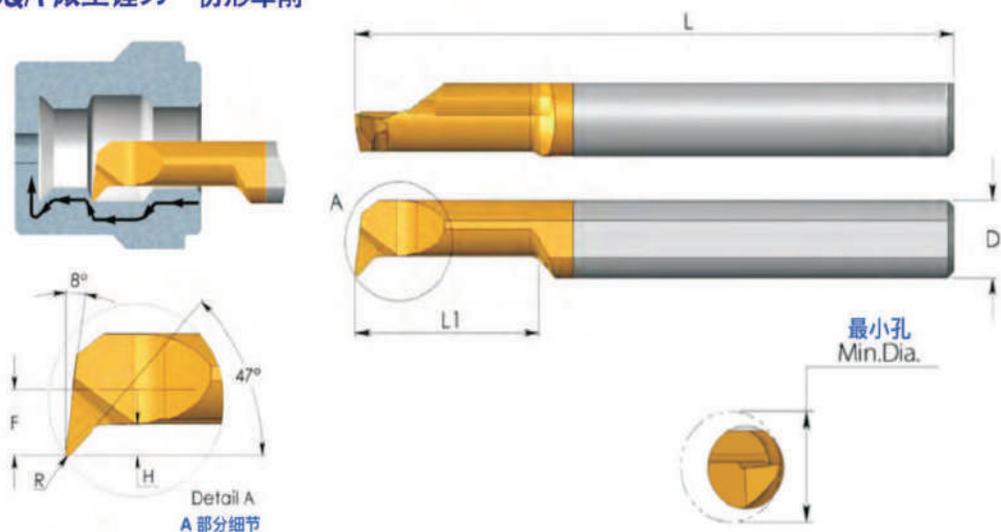
GUR 微型镗刀 仿形车削



柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	H	刀尖到 刀背距离	R	
4.0	GUR 3 R0.05/R0.1 L10	1.3	10.0	50	0.4	2.8	0.05/0.1	3.1
4.0	GUR 3 R0.05/R0.1 L15	1.3	15.0	50	0.4	2.8	0.05/0.1	3.1
4.0	GUR 4 R0.1/R0.2 L10	1.7	10.0	50	0.5	3.7	0.1/0.2	4.1
4.0	GUR 4 R0.1/R0.2 L15	1.7	15.0	50	0.5	3.7	0.1/0.2	4.1
6.0	GUR 5 R0.1/R0.2 L15	2.1	15.0	50	0.7	4.6	0.1/0.2	5.1
6.0	GUR 5 R0.1/R0.2 L22	2.1	22.0	50	0.7	4.6	0.1/0.2	5.1
6.0	GUR 6 R0.1/R0.2 L15	2.8	15.0	50	0.9	5.8	0.1/0.2	6.1
6.0	GUR 6 R0.1/R0.2 L22	2.8	22.0	50	0.9	5.8	0.1/0.2	6.1
8.0	GUR 8 R0.1/R0.2 L22	3.8	22.0	60	1.1	7.8	0.1/0.2	8.1
8.0	GUR 8 R0.1/R0.2 L30	3.8	30.0	60	1.1	7.8	0.1/0.2	8.1

- 1、订货示例: GUR 3 R0.05 L10
- 2、如需左手刀请将GUR改成MUL
- 3、接受非标定制

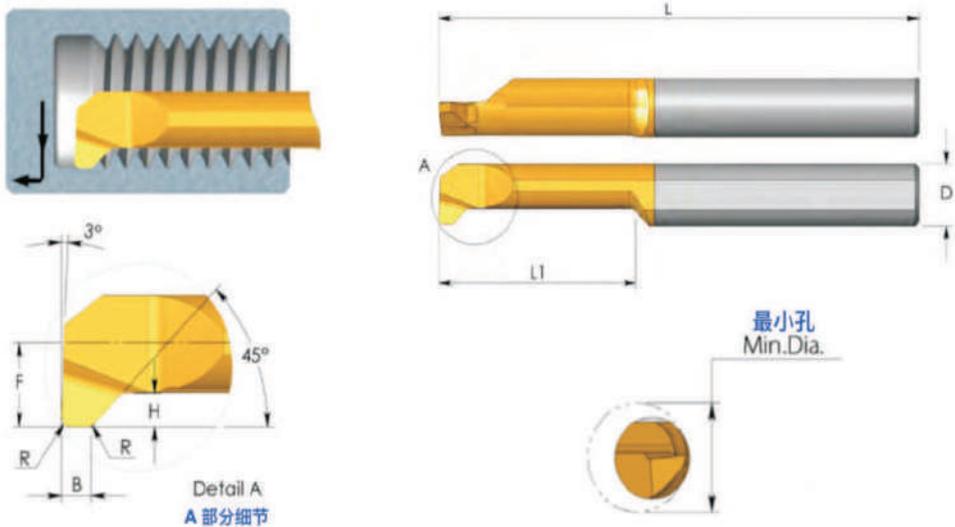
GQR 微型镗刀 仿形车削



柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	H	刀尖到 刀背距离	R	
4.0	GQR 4 R0.1/R0.2 L10	1.8	10.0	50	0.8	3.8	0.1/0.2	4.1
4.0	GQR 4 R0.1/R0.2 L15	1.8	15.0	50	0.8	3.8	0.1/0.2	4.1
6.0	GQR 5 R0.1/R0.2 L15	2.3	15.0	50	1.0	4.8	0.1/0.2	5.1
6.0	GQR 5 R0.1/R0.2 L22	2.3	22.0	50	1.0	4.8	0.1/0.2	5.1
6.0	GQR 6 R0.1/R0.2 L15	2.8	15.0	50	1.4	5.8	0.1/0.2	6.1
6.0	GQR 6 R0.1/R0.2 L22	2.8	22.0	50	1.4	5.8	0.1/0.2	6.1
8.0	GQR 8 R0.1/R0.2 L22	3.8	22.0	60	1.6	7.8	0.1/0.2	8.1
8.0	GQR 8 R0.1/R0.2 L30	3.8	30.0	60	1.6	7.8	0.1/0.2	8.1

- 1、订货示例: GQR 4 R0.1 L10
- 2、如需左手刀请将GQR改成MQL
- 3、接受非标定制

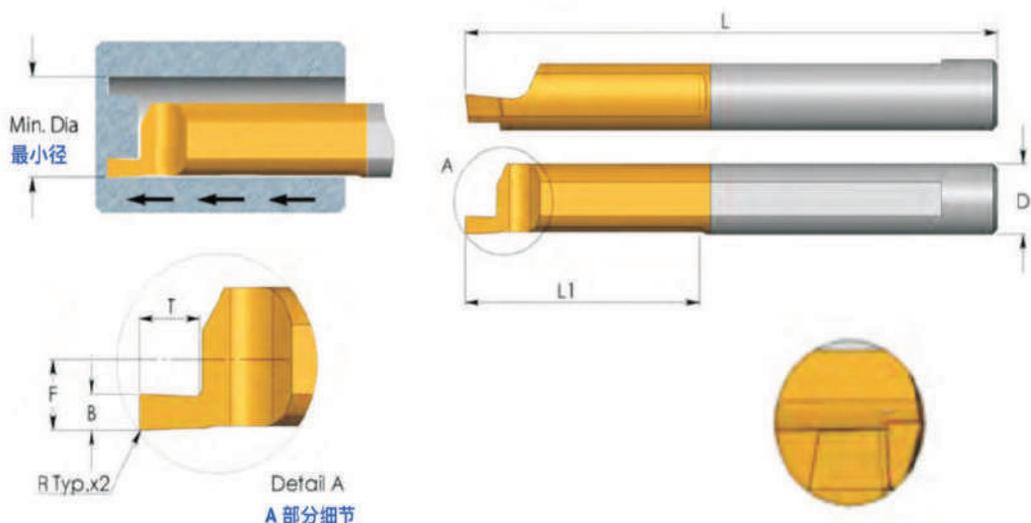
GDR 微型镗刀 车削 倒角 切槽



柄径 D	订货号	尺寸 (mm)						加工 最小孔径
		F	L1	L	H	刀尖到 刀背距离	R	
4.0	GDR 4 R0.5 L18	1.8	18.0	50	0.8	3.8	0.5	4.1
6.0	GDR 5 R0.5 L24	2.3	24.0	50	1.2	4.8	0.5	5.1
6.0	GDR 6 R0.5 L27	2.8	27.0	60	1.4	5.8	0.5	6.1

- 1、订货示例: GDR 4 R0.5 L18
- 2、如需左手刀请将GDR改成MDL
- 3、接受非标定制

GFR 微型镗刀 轴向切槽

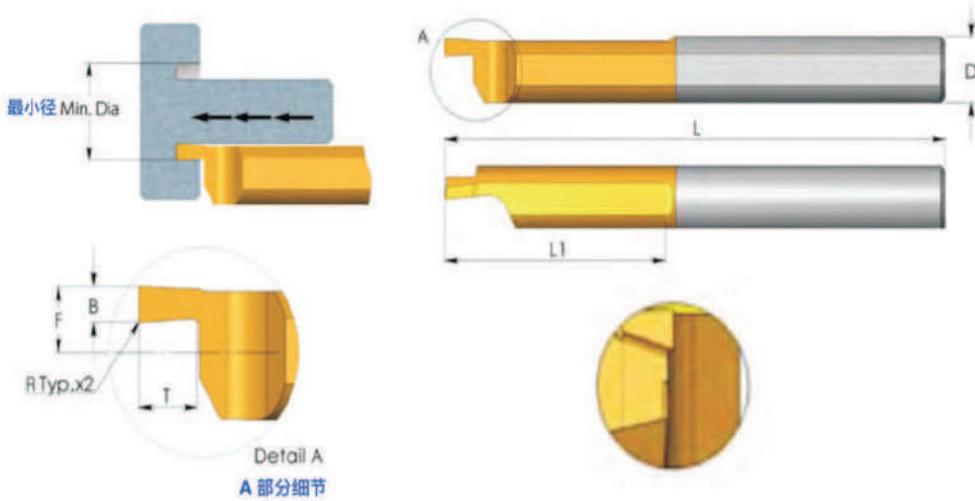


柄径 D	订货号	尺寸 (mm)					加工最 小孔径
		F	L1	L	T	B	
4.0	GFR 4 B0.75/1.0/1.5 L15	1.95	15.0	50	1.2/1.5/2.8	1.0/1.5	5.0
6.0	GFR 5 B1.0/1.5/2.0 L22	2.45	22.0	50	1.5/2.5/3.8	1.0/1.5/2.0	6.0
6.0	GFR 6 B1.0/1.5/2.0/2.5 L22	2.95	22.0	50	1.5/2.5/3.0/4.8	1.0/1.5/2.0/2.5	8.0
6.0	GFR 6 B3.0 L30	2.95	30.0	60	6.0	3.0	8.0
8.0	GFR 8 B2.5 L22	3.95	22.0	60	3.5	2.5	10.0

1、订货示例: GFR 4 B0.75 L15

2、接受非标定制

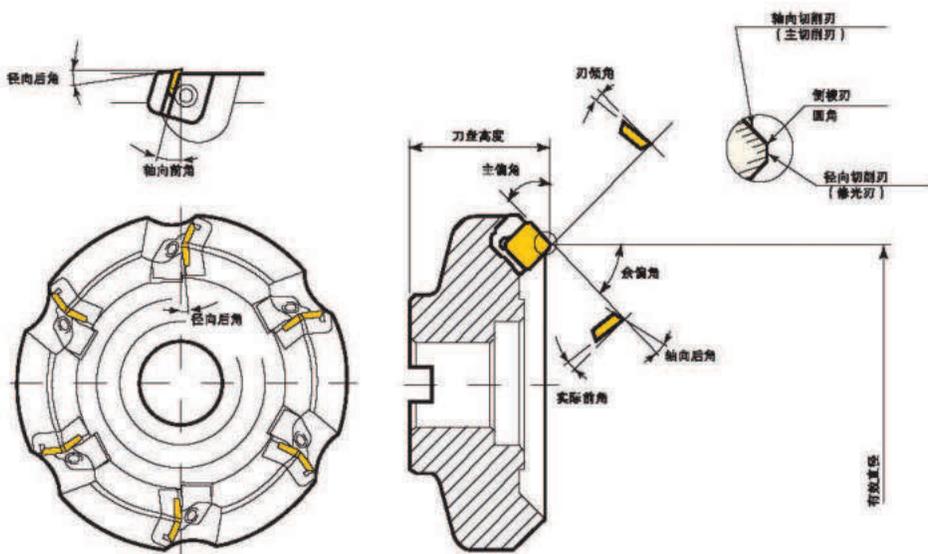
GFL 微型镗刀 轴向切槽



柄径 D	订货号	尺寸 (mm)					加工最 小孔径
		F	L1	L	T	B	
4.0	GFL 4 B0.75/1.0/1.5 L15	1.95	15.0	50	1.2/1.5/2.8	1.0/1.5	5.0
6.0	GFL 5 B1.0/1.5/2.0 L22	2.45	22.0	50	1.5/2.5/3.8	1.0/1.5/2.0	6.0
6.0	GFL 6 B1.0/1.5/2.0/2.5 L22	2.95	22.0	50	1.5/2.5/3.0/4.8	1.0/1.5/2.0/2.5	8.0
6.0	GFL 6 B3.0 L30	2.95	30.0	60	6.0	3.0	8.0
8.0	GFL 8 B2.5 L22	3.95	22.0	60	3.5	2.5	10.0

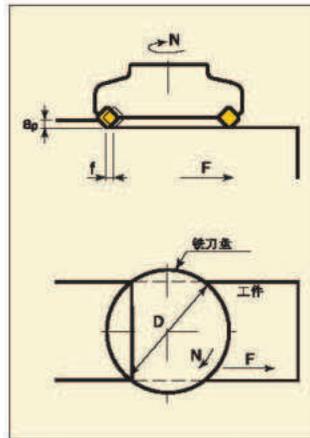
1、订货示例: GFL 4 B0.75 L15

2、接受非标定制



切削速度选择 Cutting Speed Selection

<ul style="list-style-type: none"> • 切削速度 Cutting Speed 	<ul style="list-style-type: none"> V: 切削速度 Cutting Speed (m/min)
$V = \frac{\pi \times D \times N}{1000} \text{ (m/min)}$	<ul style="list-style-type: none"> D: 刀具直径 Cutter Diameter (mm) π: 3.14
<ul style="list-style-type: none"> • 进给 Feed 	<ul style="list-style-type: none"> N: 主轴转速 Spindle Speed (rpm)
$F = f \times Z \times N \text{ (mm/min)}$	<ul style="list-style-type: none"> F: 工作台进给 Table Feed (mm/min)
$f = \frac{F}{Z \cdot N} \text{ (mm/tooth)}$	<ul style="list-style-type: none"> f: 每齿进给量 Feed per Tooth (mm/tooth) Z: 齿数 Number of Insert



功率计算 Power Calculation

$W = \frac{Q \times Ks}{60 \times 102 \times \eta} \text{ (kw)}$	<ul style="list-style-type: none"> W: 功率 Power (kw)
$Hp = \frac{W}{0.75}$	<ul style="list-style-type: none"> Hp: 马力 Horse Power
$Q = \frac{L \times F \times ap}{1000} = \frac{ap \times f \times V \times L \times Z}{\pi \times D}$	<ul style="list-style-type: none"> Q: 金属去除率 (cm³/min) Chip Removal L: 切削宽度 Width of Cut (mm) F: 工作台进给 Table Feed (mm/min) ap: 轴向切深 Axial Depth of Cut (mm) Ks: 关于特定切削力参阅 E 页 η: 效率 Machine efficiency

铣刀盘直径的选择

铣刀盘最佳直径应根据工件宽度来选择

$$D = 1.3 - 1.5 WOC$$

如果机床功率有限或工件太宽，应根据两次走刀或根据机床功率来选择铣刀盘直径，当铣刀盘直径不够大时，选择适当的铣削加工位置可获得良好的加工效果

$$WOC = 3/4D$$

Choosing Cutter Diameter

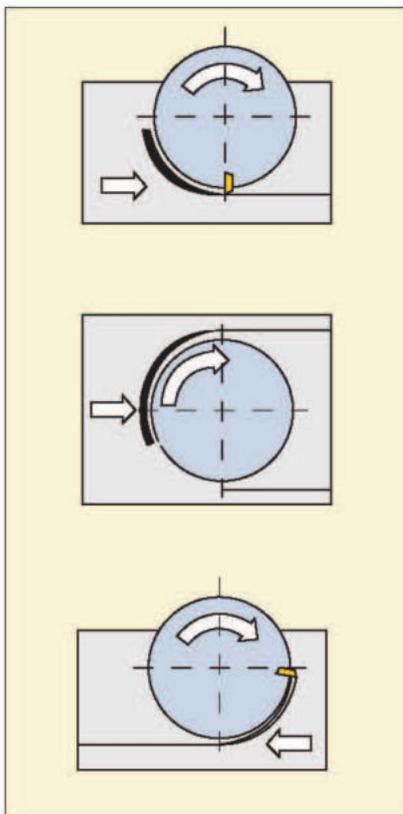
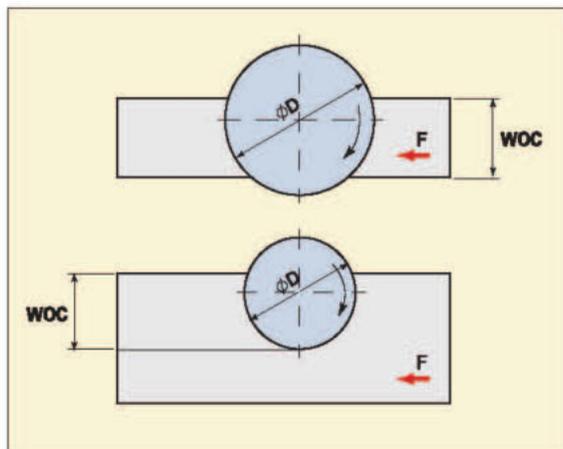
The Best Cutter Diameter ($\varnothing D$) should be selected upon the workpiece dimensions (a).

$$D \approx 1.3 - 1.5 WOC$$

If the machine power is limited or the workpiece is too wide, select a cutter diameter that takes more than two passes or that matches the power of machine.

When the appropriate cutter diameter is not available, proper cutter position will give good results.

$$WOC = 3/4D$$



传统铣削（逆铣）

工件进给方向与铣刀旋转方向相反，切削厚度开始由零逐渐增大到切削终了最大进给时，因为挤压的原理，刀片和切削层之间强烈摩擦和高温使刀片剧烈磨损

The feed direction of the workpiece is opposite to that of cutter rotation. The chip thickness starts at zero and increases to the maximum at the end of cut. In Up Milling, the insert wear is severe with excessive friction and high temperature caused by the rubbing or burnishing effect in the insert.

通道铣削（顺铣和逆铣）

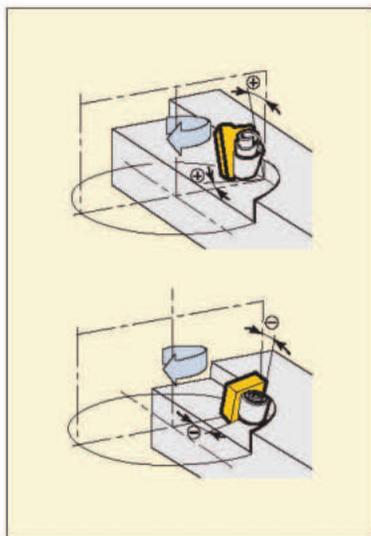
面铣刀的铣削位置在工件的中间，切削力在径向位置交替变化，当主轴刚性不佳时，将导致震动，通道铣是顺铣与逆铣相结合。通道铣一般要求刀具应有正前角，必要时降低切削速度和进给量并且使用冷却液

The cutter position is in the middle of the workpiece and the cutting force is alternately changed in the radial direction. It causes vibration when the spindle structure is weak. Channel Milling is a combination of conventional and climb milling. When Channel Milling is necessary use positive geometry cutters at reduced speeds and feeds with coolant.

攀爬铣削（顺铣）

铣削加工一般推荐使用顺铣。顺铣时，工件进给方向与铣刀旋转方向相同，切削厚度由大逐渐变小至终了为零。顺铣可使刀具使用寿命延长切削热量少减小了工件硬化现象

Climb Milling is normally recommended. The feed direction of workpiece is the same as that of cutter rotation. So the chip thickness starts from the maximum and decreases to zero at the end of cut. The tool life is long with less heat and minimum work hardening of workpiece.



切削轻快

用于布氏硬度300以下的所有材料，尤其适于小功率机床和莫氏硬度40以下的情况

- Easy chip removal
- Apply to all materials under 300 brinell hardness. Especially on light setups and low HP 40 Taper or smaller milling machines.

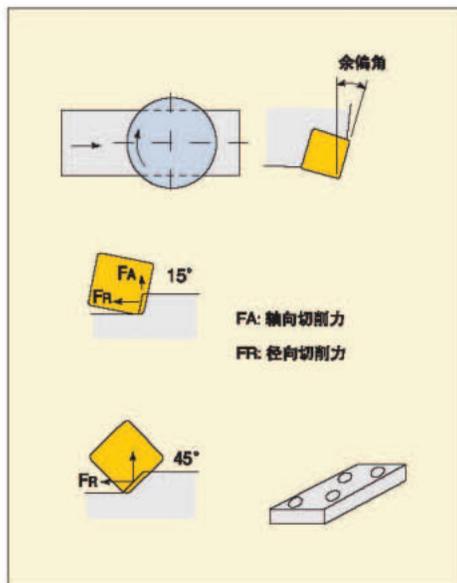
适用于铸铁加工，短屑

- Apply to cast iron which gives short chip.

通常正前角应用广泛，该类型提高了设备的利用率，减少切削热，与负前角相比，需要更大的功率，正前角减轻了对设备的损害

当铣削硬度较高材料时，因为要求较高的切削刃强度，负前角类型刀片更好

- Positive rake angle type is popular and this increases machine efficiency and reduces heat generation. It is possible to reduce machine damage compared to machining with negative rake angle insert, which require high power consumption.
- For milling hard materials that require high edge strength, negative rake angle inserts are preferable.



面铣刀的余偏角通常小于90度，以便易于排屑且增加切削刃强度
Entering angle of face mill is usually less than 90° for easy chip flow and increased edge strength.

通常余偏角为45度和15度，应用最广泛的是45度，因为该类型铣刀是经济型的形式，从精加工到粗加工提高了设备效率的利用率
Generally, entering angle are 45° and 75° with the most popular entering angle being 45°. This is economical and enables increased efficiency of power consumption in milling from finishing to roughing.

45度的余偏角适用于重切削且保证了优异的切削刃强度，尤其是对悬伸长的铣削更为有效，因为轴向切削力和径向切削力几乎相等
45° entering angle is suitable for heavy cutting and provides excellent cutting edge strength. With 45° entering angle, axial cutting force; this is nearly equal to radial cutting force this is very effective for long overhang milling.

为避免铣削铸铁时的刀尖磨损，推荐主偏角为45度
When corner damage is likely to occur in milling of cast iron, 45° entering angle is recommended.

铣削铸铁时易崩刃，故推荐使用45度余偏角
When it is difficult to position the cutter owing to workpiece shape, bigger entering angles are preferable.

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