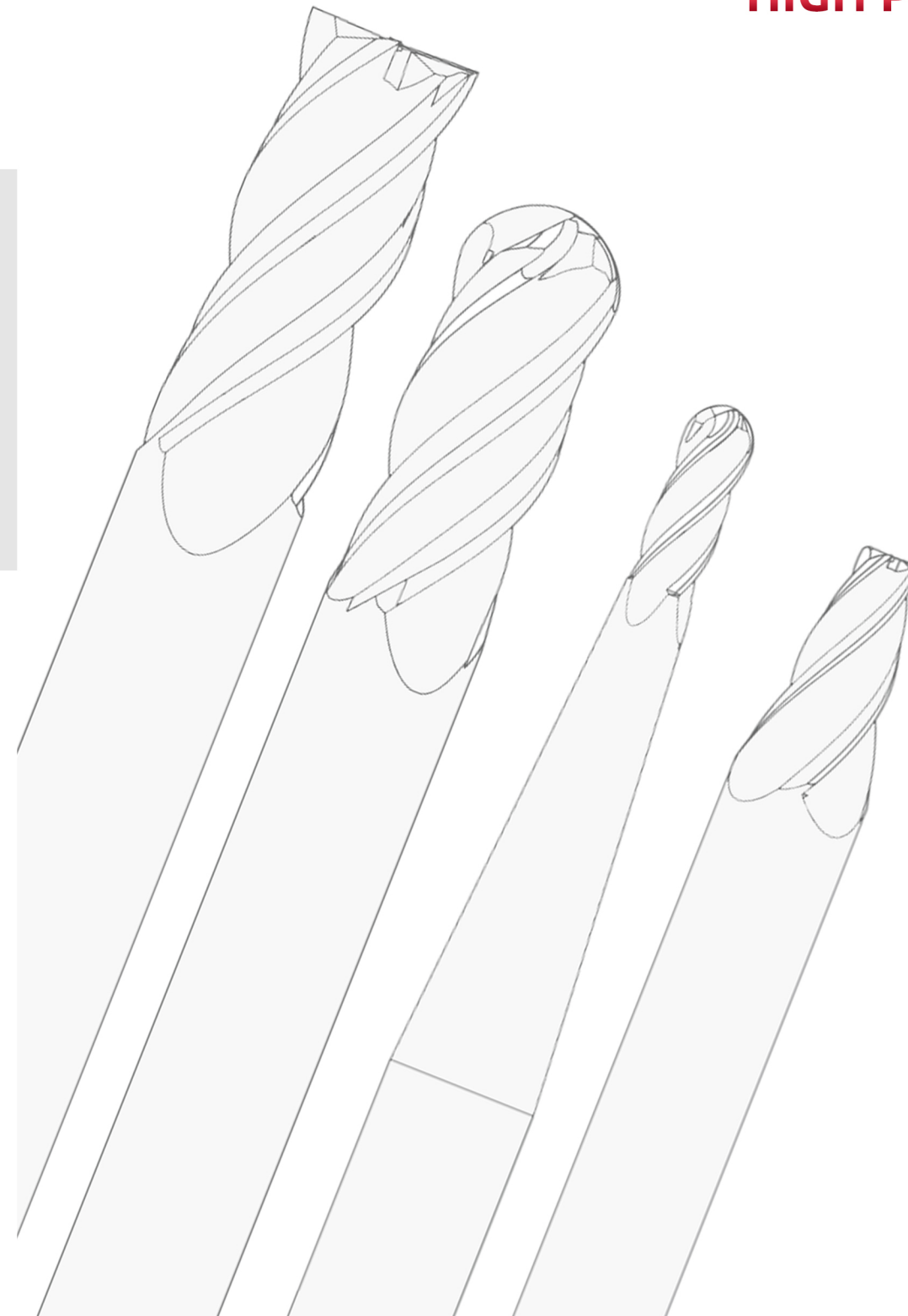




SOLID CARBIDE MILLING CUTTER

HIGH PERFORMANCE



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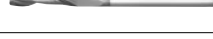
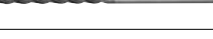
 **Address:** Building No.3, Lishe Road No.1,
Hetang District, Zhuzhou City, Hunan Province,
China Zipcode: 412000

MSU



MSU

We are a specialized supplier of high-performance carbide CNC cutting tools, dedicated to supporting the precision machining, metalworking, and manufacturing industries. Our product lineup includes solid carbide **end mills, drills, inserts, and custom cutting solutions designed for high-speed, high-precision CNC applications.** With a focus on durability, accuracy, and efficiency, our tools are engineered to meet the rigorous demands of industries such as automotive, aerospace, mold and die, and general engineering. Whether for roughing or finishing operations, we deliver reliable tooling solutions that enhance productivity and ensure superior machining results. Backed by technical expertise and a commitment to quality, we aim to be your trusted partner in advanced machining performance.

Processing Form	Series	Model	Name	Picture	工件材料									Page
					P	M	K	N	S	H				
					碳钢	合金钢	不锈钢	铸铁	铜合金	铝合金	钛合金	高合金	45-55 HRC	
General processing series	GP系列	GPE2	2 Flute Flat End Mill		●	●	○	●						01-12
		GPE4	4 Flute Flat End Mill		●	●	○	●						
		GPB2	2 Flute Ball Nose End Mill		●	●	○	●						
		GPB4	4 Flute Ball Nose End Mill		●	●	○	●						
		GPR4	4 Flute Corner Radiused End Mill		●	●	○	●						
General processing series	GPP系列	GPPE2	Enhanced 2 Flute Flat End Mill		●	●	●	●					13-21	
		GPPE4	Enhanced 4 Flute Flat End Mill		●	●	●	●						
		GPPB2	Enhanced 2 Flute Ball Nose End Mill		●	●	●	●						
		GPPR4	Enhanced 4 Flute Corner Radiused End Mill		●	●	●	●						
High performance general processing series	HPX系列	HPEX4	4 Flute Flat End Mill		●	●	●	●					22-27	
		HPBX2	High Performance 2 Flute Ball Nose End Mill		●	●	●	●						
		HPRX4	High Prformance 4 Flute Corne Radiused End Mill		●	●	●	●						
Mold Base, Mold Frame, Side Milling Special Series	MPS系列	MPS4	Mold frame 4 Flute Flat End Mill		●	●	●						28-29	
High hardness steel processing series	MH系列	MHE4	High Hardness 4 FluteFlat End Mill				○				●	●	30-36	
		MHB2	High Hardness 2 Flute Ball Nose End Mill				○				●	●		
		MHR4	High Hardness 4 Flute Corne Radiused End Mill				○				●	●		
Difficult material processing series	MSM 系列	MSME4	4 Flute Flat End Mill For Stainless Steel		○	○	☆				☆		37-41	
		MSMR4	Corner Radiused End Mill For Stainless Steel		○	○	☆				☆			
Aluminum processing series	M A 系列	MAE3	Aluminum 3 Flute Flat End Mill							●			42-49	
	MAU 系列	MAU3	Aluminum U-shaped 3 Flute Flat End Mill							●				
	MA-plus 系列	MAE3-plus	Enhanced Aluminum 3 Flute Flat End Mill							●				

通用加工 GP 系列
GENERAL PROCESSING GP SERIES



GP Series

通用加工系列

GENERAL PROCESSING SERIES

锋利的切削刃与刀具强度合理搭配，切削过程更轻快，刀具寿命更长；
Sharp cutting edge and tool strength reasonable match, cutting process more light, longer tool life;

能实现从普通钢到预硬钢的高效率切削加工；
Can achieve high efficiency cutting from ordinary steel to pre-hard steel;

能实现从高金属去除量的粗加工到高精度，高表面质量的精加工。
From roughing with high metal removal to finishing with high precision and high surface quality.

GENERAL PROCESSING SERIES

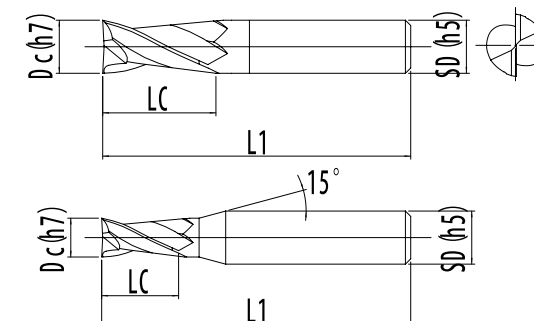


GPE2 2刃平刀

2 Flute Flat End Mill



硬质合金 UMG 涂层 AlCr 基 2 35° 螺旋角 圆刃后角 < 55 HRC



系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GP	GPE2-01	1*3*50*4	1	3	50	4	2
GP	GPE2-015	1.5*4*50*4	1.5	4	50	4	2
GP	GPE2-02	2*6*50*4	2	6	50	4	2
GP	GPE2-025	2.5*8*50*4	2.5	8	50	4	2
GP	GPE2-03	3*8*50*4	3	8	50	4	2
GP	GPE2-03P	3*8*50*6	3	8	50	6	2
GP	GPE2-03A	3*12*75*4	3	12	75	4	2
GP	GPE2-035	3.5*11*50*4	3.5	11	50	4	2
GP	GPE2-04	4*12*50*4	4	12	50	4	2
GP	GPE2-04P	4*12*50*6	4	12	50	6	2
GP	GPE2-04A	4*15*75*4	4	15	75	4	2
GP	GPE2-04B	4*20*100*4	4	20	100	4	2
GP	GPE2-04PB	4*20*100*6	4	20	100	6	2
GP	GPE2-05	5*13*50*6	5	13	50	6	2
GP	GPE2-05L	5*15*50*6	5	15	50	6	2
GP	GPE2-05A	5*20*75*6	5	20	75	6	2
GP	GPE2-05B	5*30*100*6	5	30	100	6	2
GP	GPE2-05C	5*35*150*6	5	35	150	6	2
GP	GPE2-06	6*16*50*6	6	16	50	6	2
GP	GPE2-06L	6*18*50*6	6	18	50	6	2
GP	GPE2-06A	6*25*75*6	6	25	75	6	2
GP	GPE2-06B	6*30*100*6	6	30	100	6	2
GP	GPE2-06C	6*35*150*6	6	35	150	6	2
GP	GPE2-07	7*20*60*8	7	20	60	8	2
GP	GPE2-08	8*20*60*8	8	20	60	8	2
GP	GPE2-08L	8*24*60*8	8	24	60	8	2
GP	GPE2-08A	8*30*75*8	8	25	75	8	2
GP	GPE2-08B	8*35*100*8	8	35	100	8	2
GP	GPE2-08C	8*40*150*8	8	40	150	8	2
GP	GPE2-09	9*23*75*10	9	23	75	10	2
GP	GPE2-10	10*25*75*10	10	25	75	10	2
GP	GPE2-10L	10*30*75*10	10	30	75	10	2
GP	GPE2-10B	10*40*100*10	10	40	100	10	2

GP 系列

GPE2 2刃平刀

GPE4 4刃平刀

GPE2 2刃球刀

GPB4 4刃球刀

GPB4 4刃圆鼻刀

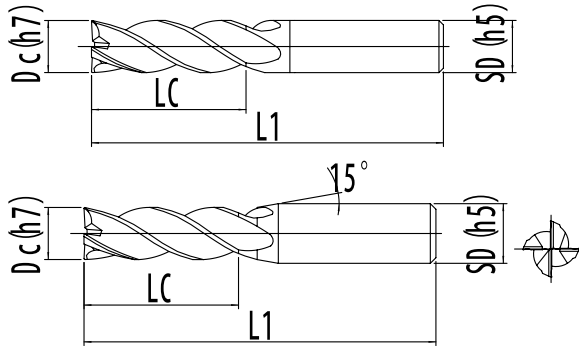
GPE2 2刃平刀

2 Flute Flat End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GP	GPE2-10C	10*55*150*10	10	55	150	10	2
GP	GPE2-11	11*28*75*12	11	28	75	12	2
GP	GPE2-12	12*30*75*12	12	30	75	12	2
GP	GPE2-12L	12*36*75*12	12	36	75	12	2
GP	GPE2-12B	12*45*100*12	12	45	100	12	2
GP	GPE2-12C	12*60*150*12	12	60	150	12	2
GP	GPE2-14	14*45*100*14	14	45	100	14	2
GP	GPE2-14C	14*60*150*14	14	60	150	14	2
GP	GPE2-16	16*45*100*16	16	45	100	16	2
GP	GPE2-16C	16*70*150*16	16	70	150	16	2
GP	GPE2-18	18*45*100*18	18	45	100	18	2
GP	GPE2-18C	18*70*150*18	18	70	150	18	2
GP	GPE2-20	20*45*100*20	20	45	100	20	2
GP	GPE2-20C	20*70*150*20	20	70	150	20	2

GPE4 4刃平刀

4 Flute Flat End Mill

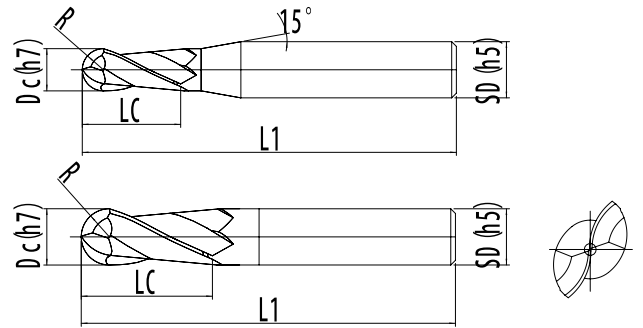


系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GP	GPE4-01	1*3*50*4	1	3	50	4	4
GP	GPE4-015	1.5*4*50*4	1.5	4	50	4	4
GP	GPE4-02	2*6*50*4	2	6	50	4	4
GP	GPE4-025	2.5*8*50*4	2.5	8	50	4	4
GP	GPE4-03	3*8*50*4	3	8	50	4	4
GP	GPE4-03P	3*8*50*6	3	8	50	6	4
GP	GPE4-03A	3*12*75*4	3	12	75	4	4
GP	GPE4-035	3.5*11*50*4	3.5	11	50	4	4
GP	GPE4-04	4*12*50*4	4	12	50	4	4
GP	GPE4-04P	4*12*50*6	4	12	50	6	4
GP	GPE4-04A	4*15*75*4	4	15	75	4	4
GP	GPE4-04B	4*20*100*4	4	20	100	4	4
GP	GPE4-04PB	4*20*100*6	4	20	100	6	4
GP	GPE4-05	5*13*50*6	5	13	50	6	4
GP	GPE4-05L	5*15*50*6	5	15	50	6	4
GP	GPE4-05A	5*20*75*6	5	20	75	6	4
GP	GPE4-05B	5*30*100*6	5	30	100	6	4
GP	GPE4-05C	5*35*150*6	5	35	150	6	4
GP	GPE4-06	6*16*50*6	6	16	50	6	4
GP	GPE4-06L	6*18*50*6	6	18	50	6	4
GP	GPE4-06A	6*25*75*6	6	25	75	6	4
GP	GPE4-06B	6*30*100*6	6	30	100	6	4
GP	GPE4-06C	6*35*150*6	6	35	150	6	4
GP	GPE4-07	7*20*60*8	7	20	60	8	4
GP	GPE4-08	8*20*60*8	8	20	60	8	4
GP	GPE4-08L	8*24*60*8	8	24	60	8	4
GP	GPE4-08A	8*30*75*8	8	25	75	8	4
GP	GPE4-08B	8*35*100*8	8	35	100	8	4
GP	GPE4-08C	8*40*150*8	8	40	150	8	4
GP	GPE4-09	9*23*75*10	9	23	75	10	4
GP	GPE4-10	10*25*75*10	10	25	75	10	4
GP	GPE4-10L	10*30*75*10	10	30	75	10	4
GP	GPE4-10B	10*40*100*10	10	40	100	10	4

GPE4 4刃平刀
4 Flute Flat End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GP	GPE4-10C	10*55*150*10	10	55	150	10	4
GP	GPE4-11	11*28*75*12	11	28	75	12	4
GP	GPE4-12	12*30*75*12	12	30	75	12	4
GP	GPE4-12L	12*36*75*12	12	36	75	12	4
GP	GPE4-12B	12*45*100*12	12	45	100	12	4
GP	GPE4-12C	12*60*150*12	12	60	150	12	4
GP	GPE4-14	14*45*100*14	14	45	100	14	4
GP	GPE4-14C	14*60*150*14	14	60	150	14	4
GP	GPE4-16	16*45*100*16	16	45	100	16	4
GP	GPE4-16C	16*70*150*16	16	70	150	16	4
GP	GPE4-18	18*45*100*18	18	45	100	18	4
GP	GPE4-18C	18*70*150*18	18	70	150	18	4
GP	GPE4-20	20*45*100*20	20	45	100	20	4
GP	GPE4-20C	20*70*150*20	20	70	150	20	4

GPB2 2刃球刀
2 Flute Ball Nose End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GP	GPB2-01	R0.5*2*50*4	1	R0.5	2	50	4	2
GP	GPB2-01PA	R0.5*2*75*6	1	R0.5	2	75	6	2
GP	GPB2-015	R0.75*3*50*4	1.5	R0.75	3	50	4	2
GP	GPB2-015PA	R0.75*3*75*6	1.5	R0.75	3	75	6	2
GP	GPB2-02	R1*4*50*4	2	R1	4	50	4	2
GP	GPB2-02A	R1*4*75*4	2	R1	4	75	4	2
GP	GPB2-02PA	R1*4*75*6	2	R1	4	75	6	2
GP	GPB2-025	R1.25*5*50*4	2.5	R1.25	5	50	4	2
GP	GPB2-03	R1.5*6*50*4	3	R1.5	6	50	4	2
GP	GPB2-03A	R1.5*6*75*4	3	R1.5	6	75	4	2
GP	GPB2-03PA	R1.5*6*75*6	3	R1.5	6	75	6	2
GP	GPB2-04	R2*8*50*4	4	R2	8	50	4	2
GP	GPB2-04A	R2*8*75*4	5	R2	8	75	4	2
GP	GPB2-04B	R2*8*100*4	4	R2	8	100	4	2
GP	GPB2-05	R2.5*10*50*6	5	R2.5	10	50	6	2
GP	GPB2-05A	R2.5*10*75*6	5	R2.5	10	75	6	2
GP	GPB2-06	R3*12*50*6	6	R3	12	50	6	2
GP	GPB2-06A	R3*12*75*6	6	R3	12	75	6	2
GP	GPB2-06B	R3*12*100*6	6	R3	12	100	6	2
GP	GPB2-08	R4*16*60*8	8	R4	16	60	8	2
GP	GPB2-08A	R4*16*75*8	8	R4	16	75	8	2
GP	GPB2-08B	R4*16*100*8	8	R4	16	100	8	2
GP	GPB2-10	R5*20*75*10	10	R5	20	75	10	2
GP	GPB2-10B	R5*20*100*10	10	R5	20	100	10	2
GP	GPB2-10C	R5*20*150*10	10	R5	20	150	10	2
GP	GPB2-11	R5.5*22*75*12	11	R5.5	22	75	12	2
GP	GPB2-11B	R5.5*22*100*12	11	R5.5	22	100	12	2
GP	GPB2-12	R6*24*75*12	12	R6	24	75	12	2
GP	GPB2-12B	R6*24*100*12	12	R6	24	100	12	2
GP	GPB2-12C	R6*24*150*12	12	R6	24	150	12	2
GP	GPB2-14	R7*28*100*14	14	R7	28	100	14	2
GP	GPB2-14B	R7*28*150*14	14	R7	28	100	14	2
GP	GPB2-16	R8*32*100*16	16	R8	32	100	16	2

GPB2 2刃球刀
2 Flute Ball Nose End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GP	GPB2-16B	R8*32*150*16	16	R8	32	150	16	2
GP	GPB2-18	R9*36*100*18	18	R9	36	100	18	2
GP	GPB2-18C	R9*36*150*18	18	R9	36	150	18	2
GP	GPB2-20	R10*40*100*20	20	R10	40	100	20	2
GP	GPB2-20C	R10*40*150*20	20	R10	40	150	20	2

GPB4 4刃球刀
4 Flute Ball Nose End Mill



硬质合金
UMG

涂层
AlCr 基

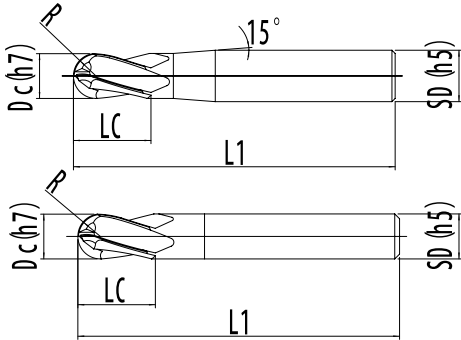
4

30°

螺旋角

圆弧后角

< 55
HRC



系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GP	GPB4-01	R0.5*2*50*4	1	R0.5	2	50	4	4
GP	GPB4-01PA	R0.5*2*75*6	1	R0.5	2	75	6	4
GP	GPB4-015	R0.75*3*50*4	1.5	R0.75	3	50	4	4
GP	GPB4-015PA	R0.75*3*75*6	1.5	R0.75	3	75	6	4
GP	GPB4-02	R1*4*50*4	2	R1	4	50	4	4
GP	GPB4-02A	R1*4*75*4	2	R1	4	75	4	4
GP	GPB4-02PA	R1*4*75*6	2	R1	4	75	6	4
GP	GPB4-025	R1.25*5*50*4	2.5	R1.25	5	50	4	4
GP	GPB4-03	R1.5*6*50*4	3	R1.5	6	50	4	4
GP	GPB4-03A	R1.5*6*75*4	3	R1.5	6	75	4	4
GP	GPB4-03PA	R1.5*6*75*6	3	R1.5	6	75	6	4
GP	GPB4-04	R2*8*50*4	4	R2	8	50	4	4
GP	GPB4-04A	R2*8*75*4	5	R2	8	75	4	4
GP	GPB4-04B	R2*8*100*4	4	R2	8	100	4	4
GP	GPB4-05	R2.5*10*50*6	5	R2.5	10	50	6	4
GP	GPB4-05A	R2.5*10*75*6	5	R2.5	10	75	6	4
GP	GPB4-06	R3*12*50*6	6	R3	12	50	6	4
GP	GPB4-06A	R3*12*75*6	6	R3	12	75	6	4
GP	GPB4-06B	R3*12*100*6	6	R3	12	100	6	4
GP	GPB4-08	R4*16*60*8	8	R4	16	60	8	4
GP	GPB4-08A	R4*16*75*8	8	R4	16	75	8	4
GP	GPB4-08B	R4*16*100*8	8	R4	16	100	8	4
GP	GPB4-10	R5*20*75*10	10	R5	20	75	10	4
GP	GPB4-10B	R5*20*100*10	10	R5	20	100	10	4
GP	GPB4-10C	R5*20*150*10	10	R5	20	150	10	4
GP	GPB4-11	R5.5*22*75*12	11	R5.5	22	75	12	4
GP	GPB4-11B	R5.5*22*100*12	11	R5.5	22	100	12	4
GP	GPB4-12	R6*24*75*12	12	R6	24	75	12	4
GP	GPB4-12B	R6*24*100*12	12	R6	24	100	12	4
GP	GPB4-12C	R6*24*150*12	12	R6	24	150	12	4
GP	GPB4-14	R7*28*100*14	14	R7	28	100	14	4
GP	GPB4-14B	R7*28*150*14	14	R7	28	100	14	4
GP	GPB4-16	R8*32*100*16	16	R8	32	100	16	4

GPB4 4刃球刀
4 Flute Ball Nose End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GP	GPB4-16B	R8*32*150*16	16	R8	32	150	16	4
GP	GPB4-18	R9*36*100*18	18	R9	36	100	18	4
GP	GPB4-18C	R9*36*150*18	18	R9	36	150	18	4
GP	GPB4-20	R10*40*100*20	20	R10	40	100	20	4
GP	GPB4-20C	R10*40*150*20	20	R10	40	150	20	4

GPR4 4刃圆鼻刀
4 Flute Corner Radiused End Mill

硬质合金
UMG

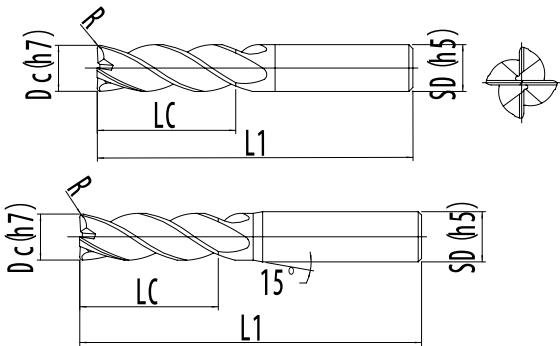
涂层
AlCr 基

4

35/37°
不等螺旋

圆弧后角

< 55
HRC



系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GP	GPR4-01-02	1*R0.2*3*50*4	1	R0.2	3	50	4	4
GP	GPR4-015-02	1.5*R0.2*4*50*4	1.5	R0.2	4	50	4	4
GP	GPR4-02-02	2*R0.2*6*50*4	2	R0.2	6	50	4	4
GP	GPR4-03-03	3*R0.3*8*50*4	3	R0.3	8	50	4	4
GP	GPR4-03-05	3*R0.5*8*50*4	3	R0.5	8	50	4	4
GP	GPR4-04-02	4*R0.2*12*50*4	4	R0.2	12	50	4	4
GP	GPR4-04-05	4*R0.5*12*50*4	4	R0.5	12	50	4	4
GP	GPR4-04-10	4*R1*12*50*4	4	R1	12	50	4	4
GP	GPR4-04-02A	4*R0.2*12*75*4	4	R0.2	12	75	4	4
GP	GPR4-04-05A	4*R0.5*12*75*4	4	R0.5	12	75	4	4
GP	GPR4-04-10A	4*R1*12*75*4	4	R1	12	75	4	4
GP	GPR4-04-02B	4*R0.2*12*100*4	4	R0.2	12	100	4	4
GP	GPR4-0405B	4*R0.5*12*100*4	4	R0.5	12	100	4	4
GP	GPR4-04-10B	4*R1*12*100*4	4	R1	12	100	4	4
GP	GPR4-05-02	5*R0.2*13*50*6	5	R0.2	13	50	6	4
GP	GPR4-05-05	5*R0.5*13*50*6	5	R0.5	13	50	6	4
GP	GPR4-05-10	5*R1*13*50*6	5	R1	13	50	6	4
GP	GPR4-06-02	6*R0.2*16*50*6	6	R0.2	13	50	6	4
GP	GPR4-06-05	6*R0.5*16*50*6	6	R0.5	16	50	6	4
GP	GPR4-06-10	6*R1*16*50*6	6	R1	16	50	6	4
GP	GPR4-06-15	6*R1.5*16*50*6	6	R1.5	16	50	6	4
GP	GPR4-06-02A	6*R0.2*16*75*6	6	R0.2	16	75	6	4
GP	GPR4-06-05A	6*R0.5*16*75*6	6	R0.5	16	75	6	4
GP	GPR4-06-10A	6*R1*16*75*6	6	R1	16	75	6	4
GP	GPR4-08-02	8*R0.2*20*60*8	8	R0.2	20	60	8	4
GP	GPR4-08-05	8*R0.5*20*60*8	8	R0.5	20	60	8	4
GP	GPR4-08-10	8*R1*20*60*8	8	R1	20	60	8	4
GP	GPR4-08-15	8*R1.5*20*60*8	8	R1.5	20	60	8	4
GP	GPR4-08-20	8*R2*20*60*8	8	R2	20	60	8	4
GP	GPR4-08-05A	8*R0.5*20*75*8	8	R0.5	20	75	8	4
GP	GPR4-08-10A	8*R1*20*75*8	8	R1	20	75	8	4
GP	GPR4-08-15A	8*R1.5*20*75*8	8	R1.5	20	75	8	4
GP	GPR4-08-20A	8*R2*20*75*8	8	R2	20	75	8	4
GP	GPR4-08-05B	8*R0.5*20*100*8	8	R0.5	20	100	8	4

GPR4 4刃圆鼻刀
4 Flute Corner Radiused End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GP	GPR4-08-10B	8*R1*20*100*8	8	R1	20	100	8	4
GP	GPR4-08-15B	8*R1.5*20*100*8	8	R1.5	20	100	8	4
GP	GPR4-08-20B	8*R2*20*100*8	8	R2	20	100	8	4
GP	GPR4-10-02	10*R0.2*25*75*10	10	R0.2	25	75	10	4
GP	GPR4-10-05	10*R0.5*25*75*10	10	R0.5	25	75	10	4
GP	GPR4-10-10	10*R1*25*75*10	10	R1	25	75	10	4
GP	GPR4-10-15	10*R1.5*25*75*10	10	R1.5	25	75	10	4
GP	GPR4-10-20	10*R2*25*75*10	10	R2	25	75	10	4
GP	GPR4-10-25	10*R2.5*25*75*10	10	R2.5	25	75	10	4
GP	GPR4-10-30	10*R3*25*75*10	10	R3	25	75	10	4
GP	GPR4-10-05B	10*R0.5*25*100*10	10	R0.5	25	100	10	4
GP	GPR4-10-10B	10*R1*25*100*10	10	R1	25	100	10	4
GP	GPR4-10-15B	10*R1.5*25*100*10	10	R1.5	25	100	10	4
GP	GPR4-10-20B	10*R2*25*100*10	10	R2	25	100	10	4
GP	GPR4-12-05	12*R0.5*30*75*12	12	R0.5	30	75	12	4
GP	GPR4-12-10	12*R1*30*75*12	12	R1	30	75	12	4
GP	GPR4-12-15	12*R1.5*30*75*12	12	R1.5	30	75	12	4
GP	GPR4-12-20	12*R2*30*75*12	12	R2	30	75	12	4
GP	GPR4-12-25	12*R2.5*30*75*12	12	R2.5	30	75	12	4
GP	GPR4-12-30	12*R3*30*75*12	12	R3	30	75	12	4
GP	GPR4-12-05B	12*R0.5*30*100*12	12	R0.5	30	100	12	4
GP	GPR4-12-10B	12*R1*30*100*12	12	R1	30	100	12	4
GP	GPR4-12-15B	12*R1.5*30*100*12	12	R1.5	30	100	12	4
GP	GPR4-12-20B	12*R2*30*100*12	12	R2	30	100	12	4
GP	GPR4-12-25B	12*R2.5*30*100*12	12	R2.5	30	100	12	4
GP	GPR4-12-30B	12*R3*30*100*12	12	R3	30	100	12	4
GP	GPR4-14-10	14*R1*45*100*14	14	R1	45	100	14	4
GP	GPR4-14-20	14*R2*45*100*14	14	R2	45	100	14	4
GP	GPR4-14-20C	14*R2*45*150*14	14	R2	45	150	14	4
GP	GPR4-16-05	16*R0.5*45*100*16	16	R0.5	45	100	16	4
GP	GPR4-16-10	16*R1*45*100*16	16	R1	45	100	16	4
GP	GPR4-16-20	16*R2*45*100*16	16	R2	45	100	16	4
GP	GPR4-16-30	16*R3*45*100*16	16	R3	45	100	16	4
GP	GPR4-16-40	16*R4*45*100*16	16	R4	45	100	16	4
GP	GPR4-16-05C	16*R0.5*45*150*16	16	R0.5	45	150	16	4
GP	GPR4-16-10C	16*R1*45*150*16	16	R1	45	150	16	4
GP	GPR4-16-20C	16*R2*45*150*16	16	R2	45	150	16	4
GP	GPR4-16-30C	16*R3*45*150*16	16	R3	45	150	16	4
GP	GPR4-16-40C	16*R4*45*150*16	16	R4	45	150	16	4
GP	GPR4-18-10	18*R1*45*100*18	18	R1	45	100	18	4
GP	GPR4-18-20	18*R2*45*100*18	18	R2	45	100	18	4
GP	GPR4-18-40	18*R4*45*100*18	18	R4	45	100	18	4
GP	GPR4-20-10	20*R1*45*100*20	20	R1	45	100	20	4
GP	GPR4-20-20	20*R2*45*100*20	20	R2	45	100	20	4
GP	GPR4-20-30	20*R3*45*100*20	20	R3	45	100	20	4
GP	GPR4-20-40	20*R4*45*100*20	20	R4	45	100	20	4
GP	GPR4-20-50	20*R5*45*100*20	20	R5	45	100	20	4

GPP

Series

通用加工系列

GENERAL PROCESSING SERIES



锋利的切削刃与刀具强度合理搭配，
切削过程更轻快，刀具寿命更长。
Sharp cutting edge and tool
strength reasonable match, cutting
process more light, longer tool life;



更高的工艺精度和质量标准，搭配更
高性能涂层。
Higher process accuracy and
quality standards with higher
performance coatings.



能实现从普通钢到预硬钢的高效率
切削加工；
Can achieve high efficiency
cutting from ordinary steel to
pre-hard steel;



能实现从高金属去除量的粗加工到
高精度，高表面质量的精加工；
From roughing with high metal
removal to finishing with high
precision and high surface
quality;



GENERAL
PROCESSING
SERIES



GPPE2 加强型2刃平刀
Enhanced 2 Flute Flat End Mill

硬质合金
UMG

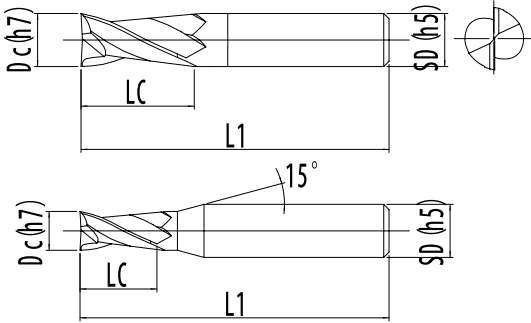
涂层
AlCr 基

2

30°
螺旋角

圆弧后角

< 55
HRC

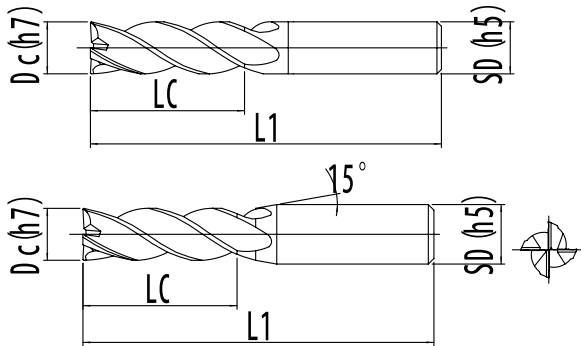


系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPE2-01	1*3*50*4	1	3	50	4	2
GPP	GPPE2-015	1.5*4*50*4	1.5	4	50	4	2
GPP	GPPE2-02	2*6*50*4	2	6	50	4	2
GPP	GPPE2-025	2.5*8*50*4	2.5	8	50	4	2
GPP	GPPE2-03	3*8*50*4	3	8	50	4	2
GPP	GPPE2L-03	3*12*75*4	3	15	75	4	2
GPP	GPPE2-03P	3*8*50*6	3	8	50	6	2
GPP	GPPE2-035	3.5*11*50*4	3.5	11	50	4	2
GPP	GPPE2-04	4*12*50*4	4	12	50	4	2
GPP	GPPE2L-04	4*15*75*4	4	20	75	4	2
GPP	GPPE2-04P	4*12*50*6	4	12	50	6	2
GPP	GPPE2-05	5*13*50*6	5	13	50	6	2
GPP	GPPE2L-05	5*20*75*6	5	20	75	6	2
GPP	GPPE2-06	6*16*50*6	6	16	50	6	2
GPP	GPPE2L-06	6*25*75*6	6	25	75	6	2
GPP	GPPE2X-06	6*30*100*6	6	30	100	6	2
GPP	GPPE2-07	7*20*60*8	7	20	60	8	2
GPP	GPPE2-08	8*20*60*8	8	20	60	8	2
GPP	GPPE2L-08	8*30*75*8	8	30	75	8	2
GPP	GPPE2X-08	8*35*100*8	8	35	100	8	2
GPP	GPPE2-09	9*23*75*10	9	23	75	10	2
GPP	GPPE2-10	10*25*75*10	10	25	75	10	2
GPP	GPPE2L-10	10*40*100*10	10	40	100	10	2
GPP	GPPE2X-10	10*55*150*10	10	55	150	10	2
GPP	GPPE2-11	11*28*75*12	11	28	75	12	2
GPP	GPPE2-12	12*30*75*12	12	30	75	12	2
GPP	GPPE2L-12	12*45*100*12	12	45	100	12	2
GPP	GPPE2X-12	12*60*150*12	12	60	150	12	2
GPP	GPPE2-14	14*34*100*14	14	34	100	14	2
GPP	GPPE2L-14	14*60*150*14	14	60	150	14	2
GPP	GPPE2-16	16*36*100*16	16	45	100	16	2
GPP	GPPE2L-16	16*70*150*16	16	70	150	16	2
GPP	GPPE2-18	18*40*100*18	18	45	100	18	2

GPPE2 加强型2刃平刀
Enhanced 2 Flute Flat End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPE2L-18	18*70*150*18	18	70	150	18	2
GPP	GPPE2-20	20*45*100*20	20	45	100	20	2
GPP	GPPE2L-20	20*70*150*20	20	70	150	20	2

GPPE4加强型4刃平刀
Enhanced 4 Flute Flat End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPE4-01	1*3*50*4	1	3	50	4	4
GPP	GPPE4-015	1.5*4*50*4	1.5	4	50	4	4
GPP	GPPE4-02	2*6*50*4	2	6	50	4	4
GPP	GPPE4-025	2.5*8*50*4	2.5	8	50	4	4
GPP	GPPE4-03	3*8*50*4	3	8	50	4	4
GPP	GPPE4L-03	3*12*75*4	3	15	75	4	4
GPP	GPPE4-03P	3*8*50*6	3	8	50	6	4
GPP	GPPE4-035	3.5*11*50*4	3.5	11	50	4	4
GPP	GPPE4-04	4*12*50*4	4	12	50	4	4
GPP	GPPE4L-04	4*15*75*4	4	20	75	4	4
GPP	GPPE4-04P	4*12*50*6	4	12	50	6	4
GPP	GPPE4-05	5*13*50*6	5	13	50	6	4
GPP	GPPE4L-05	5*20*75*6	5	20	75	6	4
GPP	GPPE4-06	6*16*50*6	6	16	50	6	4
GPP	GPPE4L-06	6*25*75*6	6	25	75	6	4
GPP	GPPE4X-06	6*30*100*6	6	30	100	6	4
GPP	GPPE4-07	7*20*60*8	7	20	60	8	4
GPP	GPPE4-08	8*20*60*8	8	20	60	8	4
GPP	GPPE4L-08	8*30*75*8	8	30	75	8	4
GPP	GPPE4X-08	8*35*100*8	8	35	100	8	4
GPP	GPPE4-09	9*23*75*10	9	23	75	10	4
GPP	GPPE4-10	10*25*75*10	10	25	75	10	4
GPP	GPPE4L-10	10*40*100*10	10	40	100	10	4
GPP	GPPE4X-10	10*55*150*10	10	55	150	10	4
GPP	GPPE4-11-	11*28*75*12	11	28	75	12	4
GPP	GPPE4-12	12*30*75*12	12	30	75	12	4
GPP	GPPE4L-12	12*45*100*12	12	45	100	12	4
GPP	GPPE4X-12	12*60*150*12	12	60	150	12	4
GPP	GPPE4-14	14*34*100*14	14	34	100	14	4
GPP	GPPE4L-14	14*60*150*14	14	60	150	14	4
GPP	GPPE4-16	16*36*100*16	16	45	100	16	4
GPP	GPPE4L-16	16*70*150*16	16	70	150	16	4
GPP	GPPE4-18	18*40*100*18	18	45	100	18	4

GPPE4 加强型4刃平刀
Enhanced 4 Flute Flat End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPE4L-18	18*70*150*18	18	70	150	18	4
GPP	GPPE4-20	20*45*100*20	20	45	100	20	4
GPP	GPPE4L-20	20*70*150*20	20	70	150	20	4

GPPB2-加强型2刃球刀
Enhanced 2 Flute Ball Nose End Mill

硬质合金
UMG

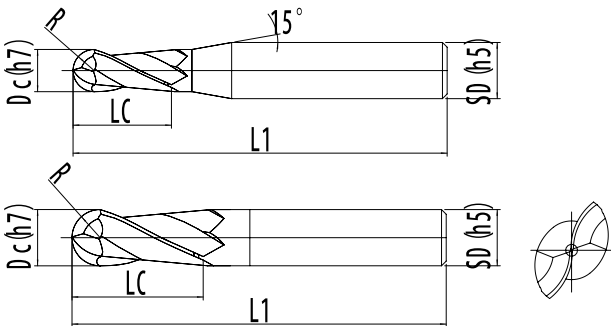
涂层
AlCr 基

2

30°
螺旋角

圆弧后角

< 55
HRC



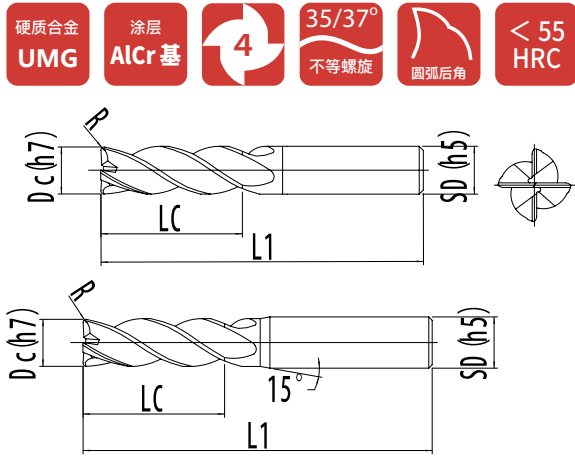
系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPB2-01	R0.5*2*50*4	1	R0.5	2	50	4	2
GPP	GPPB2L-01P	R0.5*2*75*6	1	R0.5	2	75	6	2
GPP	GPPB2-015	R0.75*3*50*4	1.5	R0.75	3	50	4	2
GPP	GPPB2L-015P	R0.75*3*75*6	1.5	R0.75	3	75	6	2
GPP	GPPB2-02	R1*4*50*4	2	R1	4	50	4	2
GPP	GPPB2L-02	R1*4*75*4	2	R1	4	75	4	2
GPP	GPPB2L-02P	R1*4*75*6	2	R1	4	75	6	2
GPP	GPPB2-025	R1.25*5*50*4	2.5	R1.25	5	50	4	2
GPP	GPPB2-03	R1.5*6*50*4	3	R1.5	6	50	4	2
GPP	GPPB2L-03	R1.5*6*75*4	3	R1.5	6	75	4	2
GPP	GPPB2L-03P	R1.5*6*75*6	3	R1.5	6	75	6	2
GPP	GPPB2-04	R2*8*50*4	4	R2	8	50	4	2
GPP	GPPB2L-04	R2*8*75*4	5	R2	8	75	4	2
GPP	GPPB2X-04	R2*8*100*4	4	R2	8	100	4	2
GPP	GPPB2-05	R2.5*10*50*6	5	R2.5	10	50	6	2
GPP	GPPB2L-05	R2.5*10*75*6	5	R2.5	10	75	6	2
GPP	GPPB2L-06	R3*12*75*6	6	R3	12	75	6	2
GPP	GPPB2-06-	R3*12*50*6	6	R3	12	50	6	2
GPP	GPPB2X-06	R3*12*100*6	6	R3	12	100	6	2
GPP	GPPB2-08	R4*16*60*8	8	R4	14	60	8	2
GPP	GPPB2L-08	R4*16*75*8	8	R4	14	75	8	2
GPP	GPPB2X-08	R4*16*100*8	8	R4	14	100	8	2
GPP	GPPB2-10	R5*20*75*10	10	R5	18	75	10	2
GPP	GPPB2L-10	R5*20*100*10	10	R5	18	100	10	2
GPP	GPPB2X-10-	R5*20*150*10	10	R5	18	150	10	2
GPP	GPPB2-11	R5.5*22*75*12	11	R5.5	20	75	12	2
GPP	GPPB2L-11	R5.5*22*100*12	11	R5.5	20	100	12	2
GPP	GPPB2-12	R6*24*75*12	12	R6	22	75	12	2
GPP	GPPB2L-12	R6*24*100*12	12	R6	22	100	12	2
GPP	GPPB2X-12	R6*24*150*12	12	R6	20	150	12	2
GPP	GPPB2-14	R7*28*100*14	14	R7	26	100	14	2
GPP	GPPB2L-14	R7*28*150*14	14	R7	26	100	14	2
GPP	GPPB2-16	R8*32*100*16	16	R8	30	100	16	2

GPPB2 加强型2刃球刀
Enhanced 2 Flute Ball Nose End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPB2L-16	R8*32*150*16	16	R8	30	150	16	2
GPP	GPPB2-18	R9*36*100*18	18	R9	34	100	18	2
GPP	GPPB2L-18	R9*36*150*18	18	R9	34	150	18	2
GPP	GPPB2-20	R10*40*100*20	20	R10	38	100	20	2
GPP	GPPB2L-20	R10*40*150*20	20	R10	38	150	20	2

GPPR4 加强型4刃圆鼻刀

Enhanced 4 Flute Corner Radiused
End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPR4-01-02	1*R0.2*3*50*4	1	R0.2	3	50	4	4
GPP	GPPR4-015-02	1.5*R0.2*4*50*4	1.5	R0.2	4	50	4	4
GPP	GPPR4-02-02	2*R0.2*6*50*4	2	R0.2	6	50	4	4
GPP	GPPR4-03-03	3*R0.3*8*50*4	3	R0.3	8	50	4	4
GPP	GPPR4-03-05	3*R0.5*8*50*4	3	R0.5	8	50	4	4
GPP	GPPR4-04-02	4*R0.2*12*50*4	4	R0.2	12	50	4	4
GPP	GPPR4L-04-02	4*R0.2*12*75*4	4	R0.2	12	75	4	4
GPP	GPPR4-04-05	4*R0.5*12*50*4	4	R0.5	12	50	4	4
GPP	GPPR4L-04-05	4*R0.5*12*75*4	4	R0.5	12	75	4	4
GPP	GPPR4-04-10	4*R1*12*50*4	4	R1	12	50	4	4
GPP	GPPR4L-04-10	4*R1*12*75*4	4	R1	12	75	4	4
GPP	GPPR4-05-02	5*R0.2*13*50*6	5	R0.2	13	50	6	4
GPP	GPPR4-05-05	5*R0.5*13*50*6	5	R0.5	13	50	6	4
GPP	GPPR4-05-10	5*R1*13*50*6	5	R1	13	50	6	4
GPP	GPPR4-06-02	6*R0.2*16*50*6	6	R0.2	13	50	6	4
GPP	GPPR4L-06-02	6*R0.2*16*75*6	6	R0.2	16	75	6	4
GPP	GPPR4-06-05	6*R0.5*16*50*6	6	R0.5	16	50	6	4
GPP	GPPR4L-06-05	6*R0.5*16*75*6	6	R0.5	16	75	6	4
GPP	GPPR4-06-10	6*R1*16*50*6	6	R1	16	50	6	4
GPP	GPPR4L-06-10	6*R1*16*75*6	6	R1	16	75	6	4
GPP	GPPR4-06-15	6*R1.5*16*50*6	6	R1.5	16	50	6	4
GPP	GPPR4-08-02	8*R0.2*20*60*8	8	R0.2	20	60	8	4
GPP	GPPR4-08-05	8*R0.5*20*60*8	8	R0.5	20	60	8	4
GPP	GPPR4L-08-05	8*R0.5*20*75*8	8	R0.5	20	75	8	4
GPP	GPPR4X-08-05	8*R0.5*20*100*8	8	R0.5	20	100	8	4
GPP	GPPR4-08-10	8*R1*20*60*8	8	R1	20	60	8	4
GPP	GPPR4L-08-10	8*R1*20*75*8	8	R1	20	75	8	4
GPP	GPPR4X-08-10	8*R1*20*100*8	8	R1	20	100	8	4
GPP	GPPR4-08-15	8*R1.5*20*60*8	8	R1.5	20	60	8	4
GPP	GPPR4L-08-15	8*R1.5*20*75*8	8	R1.5	20	75	8	4
GPP	GPPR4X-08-15	8*R1.5*20*100*8	8	R1.5	20	100	8	4
GPP	GPPR4-08-20	8*R2*20*60*8	8	R2	20	60	8	4
GPP	GPPR4L-08-20	8*R2*20*75*8	8	R2	20	75	8	4
GPP	GPPR4X-08-20	8*R2*20*100*8	8	R2	20	100	8	4

GPPR4 加强型4刃圆鼻刀

Enhanced 4 Flute Corner Radiused
End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
GPP	GPPR4-10-02	10*R0.2*25*75*10	10	R0.2	25	75	10	4
GPP	GPPR4-10-05	10*R0.5*25*75*10	10	R0.5	25	75	10	4
GPP	GPPR4L-10-05	10*R0.5*25*100*10	10	R0.5	25	100	10	4
GPP	GPPR4-10-10	10*R1*25*75*10	10	R1	25	75	10	4
GPP	GPPR4L-10-10	10*R1*25*100*10	10	R1	25	100	10	4
GPP	GPPR4-10-15	10*R1.5*25*75*10	10	R1.5	25	75	10	4
GPP	GPPR4L-10-15	10*R1.5*25*100*10	10	R1.5	25	100	10	4
GPP	GPPR4-10-20	10*R2*25*75*10	10	R2	25	75	10	4
GPP	GPPR4L-10-20	10*R2*25*100*10	10	R2	25	100	10	4
GPP	GPPR4-10-25	10*R2.5*25*75*10	10	R2.5	25	75	10	4
GPP	GPPR4-10-30	10*R3*25*75*10	10	R3	25	75	10	4
GPP	GPPR4-12-05	12*R0.5*30*75*12	12	R0.5	30	75	12	4
GPP	GPPR4L-12-05	12*R0.5*30*100*12	12	R0.5	30	100	12	4
GPP	GPPR4-12-10	12*R1*30*75*12	12	R1	30	75	12	4
GPP	GPPR4L-12-10	12*R1*30*100*12	12	R1	30	100	12	4
GPP	GPPR4-12-15	12*R1.5*30*75*12	12	R1.5	30	75	12	4
GPP	GPPR4L-12-15	12*R1.5*30*100*12	12	R1.5	30	100	12	4
GPP	GPPR4-12-20	12*R2*30*75*12	12	R2	30	75	12	4
GPP	GPPR4L-12-20	12*R2*30*100*12	12	R2	30	100	12	4
GPP	GPPR4-12-25	12*R2.5*30*75*12	12	R2.5	30	75	12	4
GPP	GPPR4L-12-25	12*R2.5*30*100*12	12	R2.5	30	100	12	4
GPP	GPPR4-12-30	12*R3*30*75*12	12	R3	30	75	12	4
GPP	GPPR4L-12-30	12*R3*30*100*12	12	R3	30	100	12	4
GPP	GPPR4-14-10	14*R1*34*100*14	14	R1	34	100	14	4
GPP	GPPR4-14-20	14*R2*34*100*14	14	R2	34	100	14	4
GPP	GPPR4L-14-20	14*R2*34*150*14	14	R2	34	150	14	4
GPP	GPPR4-16-05	16*R0.5*36*100*16	16	R0.5	36	100	16	4
GPP	GPPR4L-16-05	16*R0.5*34*150*16	16	R0.5	36	150	16	4
GPP	GPPR4-16-10	16*R1*36*100*16	16	R1	36	100	16	4
GPP	GPPR4L-16-10	16*R1*36*150*16	16	R1	36	150	16	4
GPP	GPPR4-16-20	16*R2*36*100*16	16	R2	36	100	16	4
GPP	GPPR4L-16-20	16*R2*36*150*16	16	R2	36	150	16	4
GPP	GPPR4-16-30	16*R3*36*100*16	16	R3	36	100	16	4
GPP	GPPR4L-16-3	16*R3*36*150*16	16	R3	36	150	16	4
GPP	GPPR4-16-40	16*R4*36*100*16	16	R4	36	100	16	4
GPP	GPPR4L-16-40	16*R4*36*150*16	16	R4	36	150	16	4
GPP	GPPR4-18-10	18*R1*40*100*18	18	R1	40	100	18	4
GPP	GPPR4-18-20	18*R2*40*100*18	18	R2	40	100	18	4
GPP	GPPR4-18-40	18*R4*40*100*18	18	R4	40	100	18	4
GPP	GPPR4-20-10	20*R1*45*100*20	20	R1	45	100	20	4
GPP	GPPR4-20-20	20*R2*45*100*20	20	R2	45	100	20	4
GPP	GPPR4-20-30	20*R3*45*100*20	20	R3	45	100	20	4
GPP	GPPR4-20-40	20*R4*45*100*20	20	R4	45	100	20	4
GPP	GPPR4-20-50	20*R5*45*100*20	20	R5	45	100	20	4

HPX Series
高性能通用加工系列
HIGH PERFORMANCE GENERAL
PROCESSING SERIES

成型槽设计，排屑更顺畅；
Molding groove design, more
smooth chip removal;

适用于绝大多数加工工况，例如高
效铣削，动态铣削等。
Suitable for most machining
conditions, such as high
efficiency milling, dynamic
milling and so on.

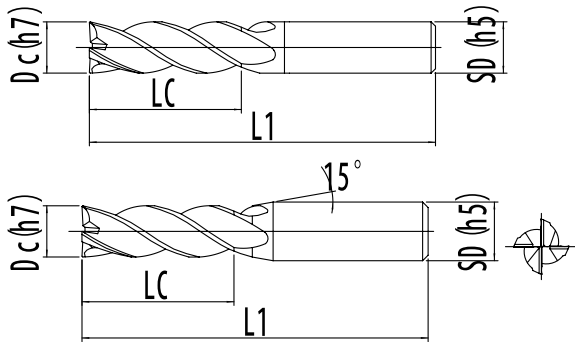
刀尖、尺瓣强化，不等齿距，不
等螺旋角设计，抗振性大幅提高；
The tool tip and ruler flap
are strengthened, and the
design of unequal tooth pitch
and unequal spiral Angle
greatly improves the vibration
resistance;

在槽铣加工中表现出优异的加工性
能，加工表面质量优于其他同类产。
It shows excellent machining
performance in groove milling,
and the machining surface
quality is better than other
similar products.



HPEX4 高性能 4 刃平刀
High Performance 4 Flute Flat End Mill

硬质合金 UMG 涂层 AlCr 基 4 38/40° 不等螺旋 圆弧后角 < 55 HRC



系列 Series	型号 Code	参数 Parameter	Dc(h7)	C 角 / 圆角 Cangle/Fillet	LC	L1	SD(h5)	齿数 Teeth number
HPX	HPEX4-03	3*8*C0.04*50*4	3	C0.04	8	50	4	4
HPX	HPEX4L-03	3*12*C0.04*75*4	3	C0.04	12	75	4	4
HPX	HPEX4-03P	3*8*C0.04*50*6	3	C0.04	8	50	6	4
HPX	HPEX4L-03P	3*12*C0.04*75*6	3	C0.04	12	75	6	4
HPX	HPEX4-04	4*12*C0.06*50*4	4	C0.06	12	50	4	4
HPX	HPEX4L-04	4*15*C0.06*75*4	4	C0.06	15	75	4	4
HPX	HPEX4-04P	4*12*C0.06*50*6	4	C0.06	12	50	6	4
HPX	HPEX4L-04P	4*15*C0.06*75*6	4	C0.06	15	75	6	4
HPX	HPEX4-05	5*13*C0.06*50*5	5	C0.06	13	50	6	4
HPX	HPEX4L-05	5*20*C0.06*75*6	5	C0.06	20	75	6	4
HPX	HPEX4-05L	5*15*C0.06*50*5	5	C0.06	15	50	6	4
HPX	HPEX4-06	6*16*C0.08*50*6	6	C0.08	16	50	6	4
HPX	HPEX4-06L	6*18*C0.08*50*6	6	C0.08	18	50	6	4
HPX	HPEX4L-06	6*20*C0.08*75*6	6	C0.08	20	75	6	4
HPX	HPEX4-08	8*20*C0.1*60*8	8	C0.1	20	60	8	4
HPX	HPEX4-08L	8*24*C0.1*60*8	8	C0.1	24	60	8	4
HPX	HPEX4L-08	8*25*C0.1*75*8	8	C0.1	25	75	8	4
HPX	HPEX4X-08	8*25*C0.1*100*8	8	C0.1	25	100	8	4
HPX	HPEX4-10	10*25*C0.1*75*10	10	C0.1	25	75	10	4
HPX	HPEX4-10L	10*30*C0.1*75*10	10	C0.1	30	75	10	4
HPX	HPEX4L-10	10*30*C0.1*100*10	10	C0.1	30	100	10	4
HPX	HPEX4-12	12*30*C0.12*75*12	12	C0.12	30	75	12	4
HPX	HPEX4-12L	12*35*C0.12*75*12	12	C0.12	36	75	12	4
HPX	HPEX4L-12	12*35*C0.12*100*12	12	C0.12	36	100	12	4
HPX	HPEX4-14	14*34*C0.12*100*14	14	C0.12	30	100	14	4
HPX	HPEX4-16	16*36*C0.15*100*16	16	C0.15	36	100	16	4
HPX	HPEX4-16L	16*45*C0.15*100*16	16	C0.15	45	100	16	4
HPX	HPEX4L-16	16*50*C0.15*150*16	16	C0.15	50	150	16	4
HPX	HPEX4-18	18*40*C0.15*100*18	18	C0.15	40	100	18	4
HPX	HPEX4-20	20*45*C0.15*100*20	20	C0.15	45	100	20	4
HPX	HPEX4L-20	20*55*C0.15*150*20	20	C0.15	55	150	20	4

HPX 系列

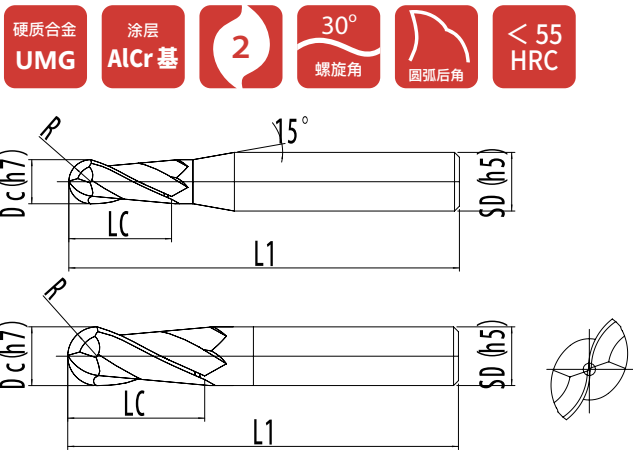
高性能 4 刃平刀

HPX2
高性能 2 刃球刀

HPX4
高性能 4 刃圆鼻刀

HPBX2 高性能 2 刃球刀

High Performance 2 Flute Ball
Nose End Mill



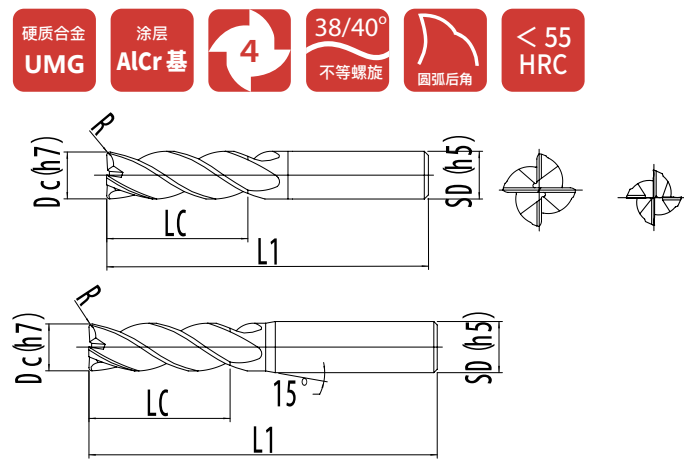
系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
HPX	HPBX2-01	R0.5*2*50*4	1	R0.5	2	50	4	2
HPX	HPBX2L-01P	R0.5*2*75*6	1	R0.5	2	75	6	2
HPX	HPBX2-015	R0.75*3*50*4	1.5	R0.75	3	50	4	2
HPX	HPBX2L-015P	R0.75*3*75*6	1.5	R0.75	3	75	6	2
HPX	HPBX2-02	R1*4*50*4	2	R1	4	50	4	2
HPX	HPBX2L-02	R1*4*75*4	2	R1	4	75	4	2
HPX	HPBX2L-02P	R1*4*75*6	2	R1	4	75	6	2
HPX	HPBX2-025	R1.25*5*50*4	2.5	R1.25	5	50	4	2
HPX	HPBX2-03	R1.5*6*50*4	3	R1.5	6	50	4	2
HPX	HPBX2L-03	R1.5*6*75*4	3	R1.5	6	75	4	2
HPX	HPBX2L-03P	R1.5*6*75*6	3	R1.5	6	75	6	2
HPX	HPBX2-04	R2*8*50*4	4	R2	8	50	4	2
HPX	HPBX2L-04	R2*8*75*4	5	R2	8	75	4	2
HPX	HPBX2X-04	R2*8*100*4	4	R2	8	100	4	2
HPX	HPBX2-05	R2.5*10*50*6	5	R2.5	10	50	6	2
HPX	HPBX2L-05	R2.5*10*75*6	5	R2.5	10	75	6	2
HPX	HPBX2-06	R3*12*50*6	6	R3	12	50	6	2
HPX	HPBX2L-06	R3*12*75*6	6	R3	12	75	6	2
HPX	HPBX2X-06	R3*12*100*6	6	R3	12	100	6	2
HPX	HPBX2-08	R4*16*60*8	8	R4	14	60	8	2
HPX	HPBX2L-08	R4*16*75*8	8	R4	14	75	8	2
HPX	HPBX2X-08	R4*16*100*8	8	R4	14	100	8	2
HPX	HPBX2-10	R5*20*75*10	10	R5	18	75	10	2
HPX	HPBX2L-10	R5*20*100*10	10	R5	18	100	10	2
HPX	HPBX2X-10	R5*20*150*10	10	R5	18	150	10	2
HPX	HPBX2-11	R5.5*22*75*12	11	R5.5	20	75	12	2
HPX	HPBX2L-11	R5.5*22*100*12	11	R5.5	20	100	12	2
HPX	HPBX2-12	R6*24*75*12	12	R6	22	75	12	2
HPX	HPBX2L-12	R6*24*100*12	12	R6	22	100	12	2
HPX	HPBX2X-12	R6*24*150*12	12	R6	20	150	12	2
HPX	HPBX2-14	R7*28*100*14	14	R7	26	100	14	2
HPX	HPBX2L-14	R7*28*150*14	14	R7	26	100	14	2
HPX	HPBX2-16	R8*32*100*16	16	R8	30	100	16	2

HPBX2 高性能 2 刃球刀

High Performance 2 Flute Ball
Nose End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
HPX	HPBX2L-16	R8*32*150*16	16	R8	30	150	16	2
HPX	HPBX2-18	R9*36*100*18	18	R9	34	100	18	2
HPX	HPBX2L-18	R9*36*150*18	18	R9	34	150	18	2
HPX	HPBX2-20	R10*40*100*20	20	R10	38	100	20	2
HPX	HPBX2L-20	R10*40*150*20	20	R10	38	150	20	2

HPRX4 高性能 4 刃圆鼻刀
High Performance 4 Flute Corner
Radiused End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
HPX	HPRX4-03-03	3*R0.3*8*50*4	3	R0.3	8	50	4	4
HPX	HPRX4-03-05	3*R0.5*8*50*4	3	R0.5	8	50	4	4
HPX	HPRX4-04-02	4*R0.2*12*50*4	4	R0.2	12	50	4	4
HPX	HPRX4-04-05	4*R0.5*12*50*4	4	R0.5	12	50	4	4
HPX	HPRX4-04-10	4*R1*12*50*4	4	R1	12	50	4	4
HPX	HPRX4L-04-02	4*R0.2*12*75*4	4	R0.2	12	75	4	4
HPX	HPRX4L-04-05	4*R0.5*12*75*4	4	R0.5	12	75	4	4
HPX	HPRX4L-04-10	4*R1*12*75*4	4	R1	12	75	4	4
HPX	HPRX4X-04-02	4*R0.2*12*100*4	4	R0.2	12	100	4	4
HPX	HPRX4X-04-05	4*R0.5*12*100*4	4	R0.5	12	100	4	4
HPX	HPRX4X-04-10	4*R1*12*100*4	4	R1	12	100	4	4
HPX	HPRX4-05-02	5*R0.2*13*50*6	5	R0.2	13	50	6	4
HPX	HPRX4-05-05	5*R0.5*13*50*6	5	R0.5	13	50	6	4
HPX	HPRX4-05-10	5*R1*13*50*6	5	R1	13	50	6	4
HPX	HPRX4-06-02	6*R0.2*16*50*6	6	R0.2	13	50	6	4
HPX	HPRX4-06-05	6*R0.5*16*50*6	6	R0.5	16	50	6	4
HPX	HPRX4-06-10	6*R1*16*50*6	6	R1	16	50	6	4
HPX	HPRX4-06-15	6*R1.5*16*50*6	6	R1.5	16	50	6	4
HPX	HPRX4L-06-02	6*R0.2*16*75*6	6	R0.2	16	75	6	4
HPX	HPRX4L-06-05	6*R0.5*16*75*6	6	R0.5	16	75	6	4
HPX	HPRX4L-06-10	6*R1*16*75*6	6	R1	16	75	6	4
HPX	HPRX4-08-02	8*R0.2*20*60*8	8	R0.2	20	60	8	4
HPX	HPRX4-08-05	8*R0.5*20*60*8	8	R0.5	20	60	8	4
HPX	HPRX4-08-10	8*R1*20*60*8	8	R1	20	60	8	4
HPX	HPRX4-08-15	8*R1.5*20*60*8	8	R1.5	20	60	8	4
HPX	HPRX4-08-20	8*R2*20*60*8	8	R2	20	60	8	4
HPX	HPRX4L-08-05	8*R0.5*20*75*8	8	R0.5	20	75	8	4
HPX	HPRX4L-08-10	8*R1*20*75*8	8	R1	20	75	8	4
HPX	HPRX4L-08-15	8*R1.5*20*75*8	8	R1.5	20	75	8	4
HPX	HPRX4L-08-20	8*R2*20*75*8	8	R2	20	75	8	4
HPX	HPRX4X-08-05	8*R0.5*20*100*8	8	R0.5	20	100	8	4
HPX	HPRX4X-08-10	8*R1*20*100*8	8	R1	20	100	8	4
HPX	HPRX4X-08-15	8*R1.5*20*100*8	8	R1.5	20	100	8	4
HPX	HPRX4X-08-20	8*R2*20*100*8	8	R2	20	100	8	4

HPRX4 高性能 4 刃圆鼻刀
High Performance 4 Flute Corner
Radiused End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
HPX	HPRX4-10-02	10*R0.2*25*75*10	10	R0.2	25	75	10	4
HPX	HPRX4-10-05	10*R0.5*25*75*10	10	R0.5	25	75	10	4
HPX	HPRX4-10-10	10*R1*25*75*10	10	R1	25	75	10	4
HPX	HPRX4-10-15	10*R1.5*25*75*10	10	R1.5	25	75	10	4
HPX	HPRX4-10-20	10*R2*25*75*10	10	R2	25	75	10	4
HPX	HPRX4-10-25	10*R2.5*25*75*10	10	R2.5	25	75	10	4
HPX	HPRX4-10-30	10*R3*25*75*10	10	R3	25	75	10	4
HPX	HPRX4L-10-05	10*R0.5*25*100*10	10	R0.5	25	100	10	4
HPX	HPRX4L-10-10	10*R1*25*100*10	10	R1	25	100	10	4
HPX	HPRX4L-10-15	10*R1.5*25*100*10	10	R1.5	25	100	10	4
HPX	HPRX4L-10-20	10*R2*25*100*10	10	R2	25	100	10	4
HPX	HPRX4-12-05	12*R0.5*30*75*12	12	R0.5	30	75	12	4
HPX	HPRX4-12-10	12*R1*30*75*12	12	R1	30	75	12	4
HPX	HPRX4-12-15	12*R1.5*30*75*12	12	R1.5	30	75	12	4
HPX	HPRX4-12-20	12*R2*30*75*12	12	R2	30	75	12	4
HPX	HPRX4-12-25	12*R2.5*30*75*12	12	R2.5	30	75	12	4
HPX	HPRX4-12-30	12*R3*30*75*12	12	R3	30	75	12	4
HPX	HPRX4L-12-05	12*R0.5*30*100*12	12	R0.5	30	100	12	4
HPX	HPRX4L-12-10	12*R1*30*100*12	12	R1	30	100	12	4
HPX	HPRX4L-12-15	12*R1.5*30*100*12	12	R1.5	30	100	12	4
HPX	HPRX4L-12-20	12*R2*30*100*12	12	R2	30	100	12	4
HPX	HPRX4L-12-25	12*R2.5*30*100*12	12	R2.5	30	100	12	4
HPX	HPRX4L-12-30	12*R3*30*100*12	12	R3	30	100	12	4
HPX	HPRX4-14-10	14*R1*45*100*14	14	R1	45	100	14	4
HPX	HPRX4-14-20	14*R2*45*100*14	14	R2	45	100	14	4
HPX	HPRX4L-14-20	14*R2*45*150*14	14	R2	45	150	14	4
HPX	HPRX4-16-05	16*R0.5*45*100*16	16	R0.5	45	100	16	4
HPX	HPRX4-16-10	16*R1*45*100*16	16	R1	45	100	16	4
HPX	HPRX4-16-20	16*R2*45*100*16	16	R2	45	100	16	4
HPX	HPRX4-16-30	16*R3*45*100*16	16	R3	45	100	16	4
HPX	HPRX4-16-40	16*R4*45*100*16	16	R4	45	100	16	4
HPX	HPRX4L-16-05	16*R0.5*45*150*16	16	R0.5	45	150	16	4
HPX	HPRX4L-16-10	16*R1*45*150*16	16	R1	45	150	16	4
HPX	HPRX4L-16-20	16*R2*45*150*16	16	R2	45	150	16	4
HPX	HPRX4L-16-30	16*R3*45*150*16	16	R3	45	150	16	4
HPX	HPRX4L-16-40	16*R4*45*150*16	16	R4	45	150	16	4
HPX	HPRX4-18-10	18*R1*45*100*18	18	R1	45	100	18	4
HPX	HPRX4-18-20	18*R2*45*100*18	18	R2	45	100	18	4
HPX	HPRX4-18-40	18*R4*45*100*18	18	R4	45	100	18	4
HPX	HPRX4-20-10	20*R1*45*100*20	20	R1	45	100	20	4
HPX	HPRX4-20-20	20*R2*45*100*20	20	R2	45	100	20	4
HPX	HPRX4-20-30	20*R3*45*100*20	20	R3	45	100	20	4
HPX	HPRX4-20-40	20*R4*45*100*20	20	R4	45	100	20	4
HPX	HPRX4-20-50	20*R5*45*100*20	20	R5	45	100	20	4

MPS Series

模坯、模架、侧铣专用系列

MOLD BASE, MOLD FRAME, SIDE MILLING
SPECIAL SERIES

大芯径设计，增强钢性，大排屑槽，快速排屑减少加工阻力，铣削更高效；
Large core diameter design, enhance steel, large chip discharge groove, fast chip discharge reduces processing resistance, more efficient milling;

锋利的刃口设计使切削过程中降低切削阻力用于模架、模胚加工；
The sharp edge design reduces the cutting resistance during the cutting process for mold frame and mold embryo processing;

全刃钝化 微观无缺痕，全新喷砂钝化工艺，解决刃磨后刃口微观缺痕，极大程度减少刃口锯齿量，提升切削性能，延长使用寿命；
Full edge passivation microscopic missing marks, new sandblasting passivation process, solve the edge after grinding microscopic missing marks, greatly reduce the amount of sawtooth edge, improve cutting performance, extend service life;

兼顾了刃口强度与锋利度，使铣刀更加耐磨减少产品毛刺且不易粘刀；
Taking into account the cutting edge strength and sharpness, making the milling cutter more wear-resistant, reducing product burrs and not easy to stick the knife;

SPECIAL SERIES FOR
MOLD BLANKS AND
MOLD FRAMES

MPS4 模架 4 刃平刀
Mold Frame 4 Flute Flat End Mill

硬质合金
UMG

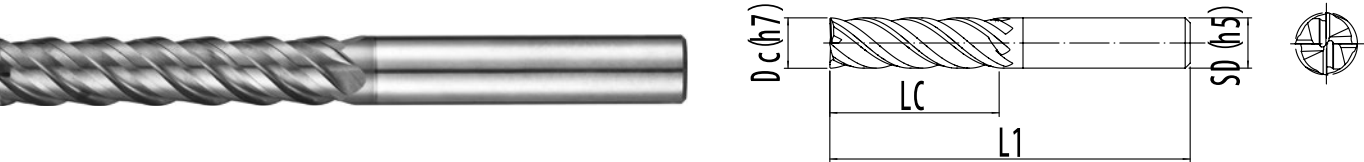
涂层
AlCr 基

4

45°
螺旋角

圆弧后角

< 55
HRC



系列 Series	型号 Code	参数 Parameter	Dc(h7)	C 角 C angle	LC	L1	SD(h5)	齿数 Teeth number
MPS	MPS4-06	6*18*50*6	6	0.1	18	50	6	4
MPS	MPS4-06A	6*30*75*6	6	0.1	30	75	6	4
MPS	MPS4-06B	6*35*100*6	6	0.1	35	100	6	4
MPS	MPS4-08	8*24*60*8	8	0.15	24	75	8	4
MPS	MPS4-08A	8*35*75*8	8	0.15	35	75	8	4
MPS	MPS4-08B	8*40*100*8	8	0.15	40	100	8	4
MPS	MPS4-10	10*35*75*10	10	0.2	35	75	10	4
MPS	MPS4-10B	10*50*100*10	10	0.2	50	100	10	4
MPS	MPS4-10C	10*65*150*10	10	0.2	65	150	10	4
MPS	MPS4-12	12*36*75*12	12	0.2	36	75	12	4
MPS	MPS4-12B	12*52*100*12	12	0.2	52	100	12	4
MPS	MPS4-12C	12*70*150*12	12	0.2	70	150	12	4

MPS 系列
模架 4 刃平刀

高硬度钢加工 M H 系列
HIGH HARDNESS STEEL PROCESSING MH SERIES



MH Series

高硬度钢加工系列

HIGH HARDNESS STEEL PROCESSING
SERIES



适用于中高硬度淬火件的干切削和微润滑切削，多用于半精加工和精加工。
Suitable for dry cutting and micro-lubrication cutting of medium and high hardness quenched parts, mostly used in semi-finishing and finishing.



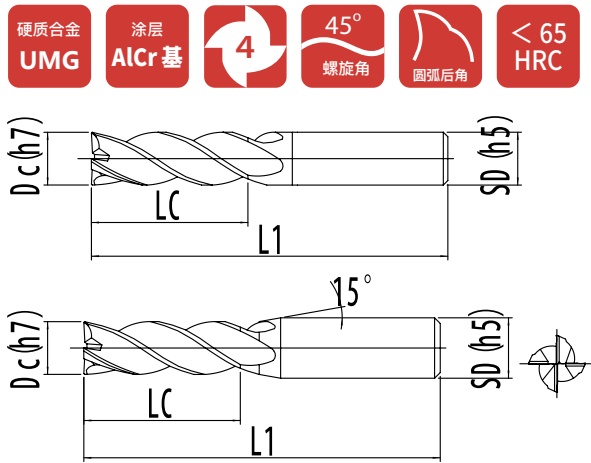
采用极细超微粒基体，兼具良好的韧性和极高的硬度；
The use of extremely fine ultrafine particle matrix, both good toughness and high hardness;



在普通复合涂层的基础上，通过特殊的沉积工艺，使得涂层结合非常稳定，表现出超高的耐高温能力。
On the basis of ordinary composite coating, through special deposition process, the coating bond is very stable, showing ultra-high temperature resistance.

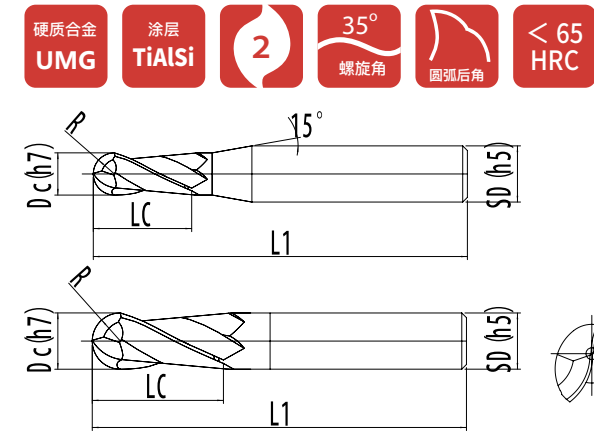


MHE4 高硬型 4 刃平刀
High Hardness 4 Flute Flat End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h7)	LC	L1	SD(h5)	齿数 Teeth number
MH	MHE4-01	1*3*50*4	1	3	50	4	4
MH	MHE4-015	1.5*4*50*4	1.5	4	50	4	4
MH	MHE4-02	2*6*50*4	2	6	50	4	4
MH	MHE4-025	2.5*8*50*4	2.5	8	50	4	4
MH	MHE4-03	3*8*50*4	3	8	50	4	4
MH	MHE4-04	4*12*50*4	4	12	50	4	4
MH	MHE4L-04	4*15*75*4	4	15	75	4	4
MH	MHE4X-04	4*20*100*4	4	20	100	4	4
MH	MHE4-05	5*13*50*6	5	13	50	6	4
MH	MHE4-06	6*16*50*6	6	16	50	6	4
MH	MHE4L-06	6*20*75*6	6	20	75	6	4
MH	MHE4X-06	6*25*100*6	6	25	100	6	4
MH	MHE4-08	8*20*60*8	8	20	60	8	4
MH	MHE4L-08	8*25*75*8	8	25	75	8	4
MH	MHE4X-08	8*25*100*8	8	25	100	8	4
MH	MHE4XX-08	8*30*150*8	8	30	150	8	4
MH	MHE4-10	10*25*75*10	10	25	75	10	4
MH	MHE4L-10	10*30*100*10	10	30	100	10	4
MH	MHE4X-10	10*35*150*10	10	35	150	10	4
MH	MHE4-12	12*30*75*12	12	30	75	12	4
MH	MHE4L-12	12*35*100*12	12	35	100	12	4
MH	MHE4X-12	12*45*150*12	12	45	150	12	4
MH	MHE4-16	16*36*100*16	16	36	100	16	4
MH	MHE4L-16	16*50*150*16	16	50	150	16	4
MH	MHE4-20	20*45*100*20	20	45	100	20	4
MH	MHE4L-20	20*55*150*20	20	55	150	20	4

MHB2 高硬型 2 刃球刀
High Hardness 2 Flute Ball Nose
End Mill



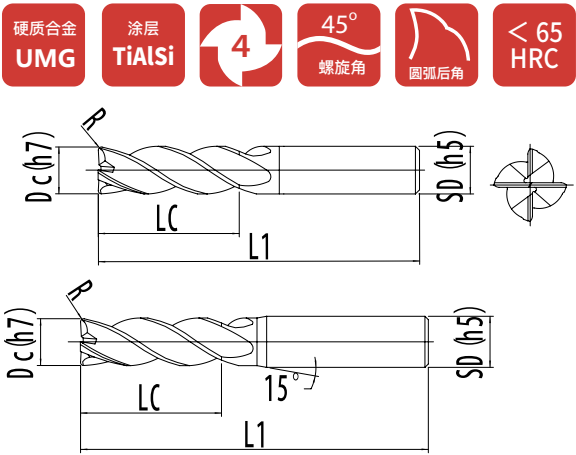
系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
MH	MHB2-01	R0.5*2*50*4	1	R0.5	2	50	4	2
MH	MHB2-015	R0.75*4*50*4	1.5	R0.75	4	50	4	2
MH	MHB2-02	R1*4*50*4	2	R1	4	50	4	2
MH	MHB2-025	R1.25*5*50*4	2.5	R1.25	5	50	4	2
MH	MHB2-03	R1.5*6*50*4	3	R1.5	6	50	4	2
MH	MHB2-04	R2*8*50*4	4	R2	8	50	4	2
MH	MHB2L-04	R2*8*75*4	4	R2	8	75	4	2
MH	MHB2X-04	R2*8*100*4	4	R2	8	100	4	2
MH	MHB2-05	R2.5*10*50*6	5	R2.5	10	50	6	2
MH	MHB2-06S	R3*9*50*6	6	R3	9	50	6	2
MH	MHB2L-06S	R3*9*75*6	6	R3	9	75	6	2
MH	MHB2X-06S	R3*9*100*6	6	R3	9	100	6	2
MH	MHB2XX-06S	R3*9*150*6	6	R3	9	150	6	2
MH	MHB2-06	R3*12*50*6	6	R3	12	50	6	2
MH	MHB2L-06	R3*12*75*6	6	R3	12	75	6	2
MH	MHB2X-06	R3*12*100*6	6	R3	12	100	6	2
MH	MHB2XX-06	R3*12*150*6	6	R3	12	150	6	2
MH	MHB2-08S	R4*12*60*8	8	R4	12	60	8	2
MH	MHB2L-08S	R4*12*75*8	8	R4	12	75	8	2
MH	MHB2X-08S	R4*12*100*8	8	R4	12	100	8	2
MH	MHB2XX-08S	R4*12*150*8	8	R4	12	150	8	2
MH	MHB2-08	R4*16*60*8	8	R4	16	60	8	2
MH	MHB2L-08	R4*16*75*8	8	R4	16	75	8	2
MH	MHB2X-08	R4*16*100*8	8	R4	16	100	8	2
MH	MHB2XX-08	R4*16*150*8	8	R4	16	150	8	2
MH	MHB2-10S	R5*15*75*10	10	R5	15	75	10	2
MH	MHB2L-10S	R5*15*100*10	10	R5	15	100	10	2
MH	MHB2X-10S	R5*15*150*10	10	R5	15	150	10	2
MH	MHB2-10	R5*20*75*10	10	R5	20	75	10	2
MH	MHB2L-10	R5*20*100*10	10	R5	20	100	10	2
MH	MHB2X-10	R5*20*150*10	10	R5	20	150	10	2
MH	MHB2-12S	R6*18*75*12	12	R6	18	75	12	2
MH	MHB2L-12S	R6*18*100*12	12	R6	18	100	12	2
MH	MHB2X-12S	R6*18*150*12	12	R6	18	150	12	2

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
MH	MHB2-12	R6*24*75*12	12	R6	24	75	12	2
MH	MHB2L-12	R6*24*100*12	12	R6	24	100	12	2
MH	MHB2X-12	R6*24*150*12	12	R6	24	150	12	2
MH	MHB2-16S	R8*24*100*16	16	R8	24	100	16	2
MH	MHB2L-16S	R8*24*150*16	16	R8	24	150	16	2
MH	MHB2-16	R8*32*100*16	16	R8	32	100	16	2
MH	MHB2L-16	R8*32*150*16	16	R8	32	150	16	2
MH	MHB2-20S	R10*30*100*20	20	R10	30	100	20	2
MH	MHB2L-20S	R10*30*150*20	20	R10	30	150	20	2
MH	MHB2-20	R10*40*100*20	20	R10	40	100	20	2
MH	MHB2L-20	R10*40*150*20	20	R10	40	150	20	2

MHR4 高硬型 4 刃圆鼻刀

High Hardness 4 Flute Corner

Radiused End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
MH	MHR4-02-02	2*R0.2*6*50*4	2	R0.2	6	50	4	4
MH	MHR4-03-05	3*R0.5*8*50*4	3	R0.5	8	50	4	4
MH	MHR4-04-02	4*R0.2*12*50*4	4	R0.2	12	50	4	4
MH	MHR4-04-05	4*R0.5*12*50*4	4	R0.5	12	50	4	4
MH	MHR4L-04-02	4*R0.2*12*75*4	4	R0.2	12	75	4	4
MH	MHR4L-04-05	4*R0.5*12*75*4	4	R0.5	12	75	4	4
MH	MHR4X-04-02	4*R0.2*12*100*4	4	R0.2	12	100	4	4
MH	MHR4X-04-05	4*R0.5*12*100*4	4	R0.5	12	100	4	4
MH	MHR4-05-02	5*R0.2*13*50*6	5	R0.2	13	50	6	4
MH	MHR4-05-05	5*R0.5*13*50*6	5	R0.5	13	50	6	4
MH	MHR4-05-10	5*R1*13*50*6	5	R1	13	50	6	4
MH	MHR4-06-02	6*R0.2*16*50*6	6	R0.2	16	50	6	4
MH	MHR4-06-05	6*R0.5*16*50*6	6	R0.5	16	50	6	4
MH	MHR4-06-10	6*R1*16*50*6	6	R1	16	50	6	4
MH	MHR4L-06-02	6*R0.2*16*75*6	6	R0.2	16	75	6	4
MH	MHR4L-06-05	6*R0.5*16*75*6	6	R0.5	16	75	6	4
MH	MHR4L-06-10	6*R1*16*75*6	6	R1	16	75	6	4
MH	MHR4X-06-02	6*R0.2*16*100*6	6	R0.2	16	100	6	4
MH	MHR4X-06-05	6*R0.5*16*100*6	6	R0.5	16	100	6	4
MH	MHR4X-06-10	6*R1*16*100*6	6	R1	16	100	6	4
MH	MHR4-08-02	8*R0.2*20*60*8	8	R0.2	20	60	8	4
MH	MHR4-08-05	8*R0.5*20*60*8	8	R0.5	20	60	8	4
MH	MHR4-08-10	8*R1*20*60*8	8	R1	20	60	8	4
MH	MHR4L-08-02	8*R0.2*20*75*8	8	R0.2	20	75	8	4
MH	MHR4L-08-05	8*R0.5*20*75*8	8	R0.5	20	75	8	4
MH	MHR4L-08-10	8*R1*20*75*8	8	R1	20	75	8	4
MH	MHR4X-08-02	8*R0.2*20*100*8	8	R0.2	20	100	8	4
MH	MHR4X-08-05	8*R0.5*20*100*8	8	R0.5	20	100	8	4
MH	MHR4X-08-10	8*R1*20*100*8	8	R1	20	100	8	4
MH	MHR4XX-08-02	8*R0.2*20*150*8	8	R0.2	20	150	8	4
MH	MHR4XX-08-05	8*R0.5*20*150*8	8	R0.5	20	150	8	4
MH	MHR4XX-08-10	8*R1*20*150*8	8	R1	20	150	8	4
MH	MHR4-10-02	10*R0.2*25*75*10	10	R0.2	25	75	10	4
MH	MHR4-10-05	10*R0.5*25*75*10	10	R0.5	25	75	10	4

系列 Series	型号 Code	参数 Parameter	Dc(h7)	圆角 Fillet	LC	L1	SD(h5)	齿数 Teeth number
MH	MHR4-10-10	10*R1*25*75*10	10	R1	25	75	10	4
MH	MHR4-10-20	10*R2*25*75*10	10	R2	25	75	10	4
MH	MHR4L-10-02	10*R0.2*25*100*10	10	R0.2	25	100	10	4
MH	MHR4L-10-05	10*R0.5*25*100*10	10	R0.5	25	100	10	4
MH	MHR4L-10-10	10*R1*25*100*10	10	R1	25	100	10	4
MH	MHR4L-10-20	10*R2*25*100*10	10	R2	25	100	10	4
MH	MHR4X-10-02	10*R0.2*25*150*10	10	R0.2	25	150	10	4
MH	MHR4X-10-05	10*R0.5*25*150*10	10	R0.5	25	150	10	4
MH	MHR4X-10-10	10*R1*25*150*10	10	R1	25	150	10	4
MH	MHR4X-10-20	10*R2*25*150*10	10	R2	25	150	10	4
MH	MHR4-12-05	12*R0.5*30*75*12	12	R0.5	30	75	12	4
MH	MHR4-12-10	12*R1*30*75*12	12	R1	30	75	12	4
MH	MHR4-12-20	12*R2*30*75*12	12	R2	30	75	12	4
MH	MHR4-12-30	12*R3*30*75*12	12	R3	30	75	12	4
MH	MHR4L-12-05	12*R0.5*30*100*12	12	R0.5	30	100	12	4
MH	MHR4L-12-10	12*R1*30*100*12	12	R1	30	100	12	4
MH	MHR4L-12-20	12*R2*30*100*12	12	R2	30	100	12	4
MH	MHR4L-12-30	12*R2*30*100*12	12	R3	30	100	12	4
MH	MHR4X-12-05	12*R0.5*30*150*12	12	R0.5	30	150	12	4
MH	MHR4X-12-10	12*R1*30*150*12	12	R1	30	150	12	4
MH	MHR4X-12-20	12*R2*30*150*12	12	R2	30	150	12	4
MH	MHR4X-12-30	12*R3*30*150*12	12	R3	30	150	12	4

MH系列

MHR4
高硬度4刃平刀

MHR2
高硬度2刃球刀

MHR4
高硬度4刃圆鼻刀

MSM Series

难加工材料加工系列

DIFFICULT MATERIAL PROCESSING SERIES



MSM Series
难加工材料加工系列
DIFFICULT MATERIAL PROCESSING SERIES



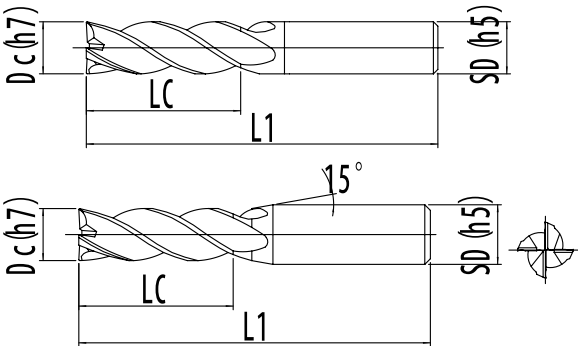
不等齿距变刃倾角立铣刀；
End mill with different pitch and Angle Angle;

成型槽设计，排屑更顺畅；
适用于不锈钢、钛合金等难加工材料，高耐磨，高寿命。
Molding groove design, more smooth chip removal; Suitable for stainless steel, titanium alloy and other difficult to process materials, high wear resistance, high life.

DIFFICULT MATERIAL
PROCESSING SERIES

MSME4 不锈钢钛合金 4 刃平刀

Stainless Steel Titanium Alloy 4 Flute Flat End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h7)	C 角 C angle	LC	L1	SD(h5)	齿数 Teeth number
MSM	MSME4-01	1*3*50*4	1		3	50	4	4
MSM	MSME4-015	1.5*4*50*4	1.5		4	50	4	4
MSM	MSME4-02	2*6*50*4	2		6	50	4	4
MSM	MSME4-025	2.5*8*50*4	2.5		8	50	4	4
MSM	MSME4-03	3*8*C0.04*50*4	3	C0.04	8	50	4	4
MSM	MSME4-04	4*12*C0.06*50*4	4	C0.06	12	50	4	4
MSM	MSME4L-04	4*20*C0.06*75*4	4	C0.06	20	75	4	4
MSM	MSME4-05	5*13*C0.08*50*6	5	C0.08	13	50	6	4
MSM	MSME4-06	6*16*C0.08*50*6	6	C0.08	16	50	6	4
MSM	MSME4L-06	6*25*C0.08*75*6	6	C0.08	25	75	6	4
MSM	MSME4X-06B	6*30*C0.08*100*6	6	C0.08	30	100	6	4
MSM	MSME4-08	8*20*C0.1*60*8	8	C0.1	20	60	8	4
MSM	MSME4L-08	8*30*C0.1*75*8	8	C0.1	30	75	8	4
MSM	MSME4X-08	8*35*C0.1*100*8	8	C0.1	35	100	8	4
MSM	MSME4-10	10*25*C0.1*75*10	10	C0.1	25	75	10	4
MSM	MSME4L-10	10*40*C0.1*100*10	10	C0.1	40	100	10	4
MSM	MSME4-12	12*30*C0.12*75*12	12	C0.12	30	75	12	4
MSM	MSME4L-12	12*45*C0.12*100*12	12	C0.12	45	100	12	4
MSM	MSME4-16	16*45*C0.15*100*16	16	C0.15	45	100	16	4
MSM	MSME4L-16	16*70*C0.15*150*16	16	C0.15	70	150	16	4
MSM	MSME4-20	20*45*C0.15*100*20	20	C0.15	45	100	20	4
MSM	MSME4L-20	20*70*C0.15*150*20	20	C0.15	70	150	20	4

MSMR4 不锈钢钛合金 4 刃圆鼻刀

Stainless Steel Titanium Alloy 4 Flute Corner
Radiused End Mill

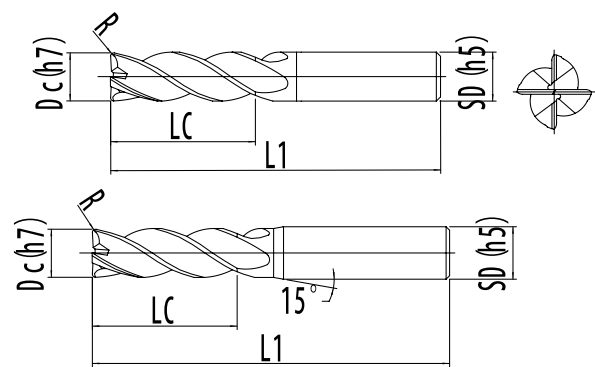
硬质合金
UMG

涂层
ZrN

4

38/40°
不等螺旋

圆弧后角



系列 Series	型号 Code	参数 Parameter	Dc(h7)	C 角 / 圆角 C angle/Fillet	LC	L1	SD(h5)	齿数 Teeth number
MSM	MSMR4-02-02	2*R0.2*6*50*4	2	R0.2	6	50	4	4
MSM	MSMR4-02-05	2*R0.5*6*50*4	2	R0.5	6	50	4	4
MSM	MSMR4-03-02	3*R0.2*8*50*4	3	R0.2	8	50	4	4
MSM	MSMR4-03-05	3*R0.5*8*50*4	3	R0.5	8	50	4	4
MSM	MSMR4-04-02	4*R0.2*12*50*4	4	R0.2	12	50	4	4
MSM	MSMR4-04-05	4*R0.5*12*50*4	4	R0.5	12	50	4	4
MSM	MSMR4-04-10	4*R1*12*50*4	4	R1	12	50	4	4
MSM	MSMR4L-04-02	4*R0.2*12*75*4	4	R0.2	12	75	4	4
MSM	MSMR4L-04-05	4*R0.5*12*75*4	4	R0.5	12	75	4	4
MSM	MSMR4L-04-10	4*R1*12*75*4	4	R1	12	75	4	4
MSM	MSMR4-05-05	5*R0.5*13*50*6	5	R0.5	13	50	6	4
MSM	MSMR4-05-10	5*R1*13*50*6	5	R1	13	50	6	4
MSM	MSMR4-06-05	6*R0.5*16*50*6	6	R0.5	16	50	6	4
MSM	MSMR4-06-10	6*R1*16*50*6	6	R1	16	50	6	4
MSM	MSMR4L-06-05	6*R0.5*16*75*6	6	R0.5	16	75	6	4
MSM	MSMR4L-06-10	6*R1*16*75*6	6	R1	16	75	6	4
MSM	MSMR4X-06-05	6*R0.5*16*100*6	6	R0.5	16	100	6	4
MSM	MSMR4X-06-10	6*R1*16*100*6	6	R1	16	100	6	4
MSM	MSMR4-08-05	8*R0.5*20*60*8	8	R0.5	20	60	8	4
MSM	MSMR4-08-10	8*R1*20*60*8	8	R1	20	60	8	4
MSM	MSMR4-08-20	8*R2*20*60*8	8	R2	20	60	8	4
MSM	MSMR4L-08-05	8*R0.5*20*75*8	8	R0.5	20	75	8	4
MSM	MSMR4L-08-10	8*R1*20*75*8	8	R1	20	75	8	4
MSM	MSMR4L-08-20	8*R2*20*75*8	8	R2	20	75	8	4
MSM	MSMR4X-08-05	8*R0.5*20*100*8	8	R0.5	20	100	8	4
MSM	MSMR4X-08-10	8*R1*20*100*8	8	R1	20	100	8	4
MSM	MSMR4X-08-20	8*R2*20*100*8	8	R2	20	100	8	4
MSM	MSMR4-10-05	10*R0.5*25*75*10	10	R0.5	25	75	10	4
MSM	MSMR4-10-10	10*R1*25*75*10	10	R1	25	75	10	4
MSM	MSMR4-10-20	10*R2*25*75*10	10	R2	25	75	10	4
MSM	MSMR4L-10-05	10*R0.5*25*100*10	10	R0.5	25	100	10	4
MSM	MSMR4L-10-10	10*R1*25*100*10	10	R1	25	100	10	4
MSM	MSMR4L-10-20	10*R2*25*100*10	10	R2	25	100	10	4

MSMR4 不锈钢钛合金 4 刃圆鼻刀

Stainless Steel Titanium Alloy 4 Flute Corner
Radiused End Mill

系列 Series	型号 Code	参数 Parameter	Dc(h7)	C 角 / 圆角 C angle/Fillet	LC	L1	SD(h5)	齿数 Teeth number
MSM	MSMR4-12-05	12*R0.5*30*75*12	12	R0.5	30	75	12	4
MSM	MSMR4-12-10	12*R1*30*75*12	12	R1	30	75	12	4
MSM	MSMR4-12-20	12*R2*30*75*12	12	R2	30	75	12	4
MSM	MSMR4L-12-05	12*R0.5*30*100*12	12	R0.5	30	100	12	4
MSM	MSMR4L-12-10	12*R1*30*100*12	12	R1	30	100	12	4
MSM	MSMR4L-12-20	12*R2*30*100*12	12	R2	30	100	12	4
MSM	MSMR4-16-05	16*R0.5*45*100*16	16	R0.5	45	100	16	4
MSM	MSMR4-16-10	16*R1*45*100*16	16	R1	45	100	16	4
MSM	MSMR4-16-20	16*R2*45*100*16	16	R2	45	100	16	4
MSM	MSMR4-16-30	16*R3*45*100*16	16	R3	45	100	16	4
MSM	MSMR4L-16-05	16*R0.5*45*150*16	16	R0.5	45	150	16	4
MSM	MSMR4L-16-10	16*R1*45*150*16	16	R1	45	150	16	4
MSM	MSMR4L-16-20	16*R2*45*150*16	16	R2	45	150	16	4
MSM	MSMR4L-16-30	16*R3*45*150*16	16	R3	45	150	16	4

铝合金 M A 系列

ALUMINUM PROCESSING MA SERIES



MA Series

铝加工系列

ALUMINUM PROCESSING SERIES



超细晶粒的设计及均匀组织结构的基体，45 度螺旋角，双刃带设计，适合通用粗精加工。

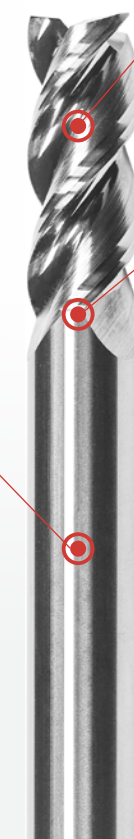
The design of ultrafine grains and the matrix with uniform microstructure, 45 degree helix angle, and double-edged belt design are suitable for general rough and fine machining.



锋利的切削刃及刃口处理技术，有效防止积屑瘤的产生；
Sharp cutting edges and edge processing technology effectively prevent the formation of chip lumps;

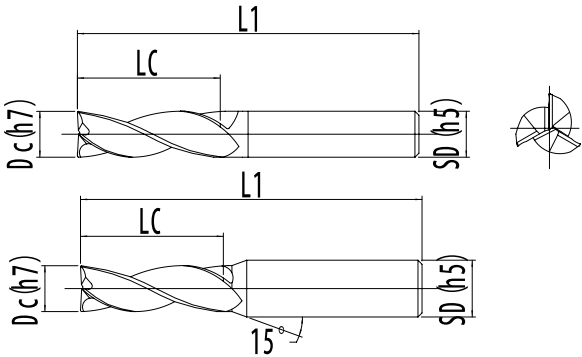
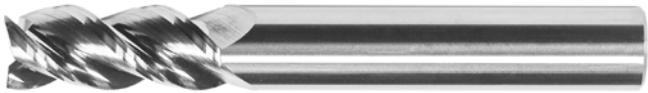


独特的容屑槽形状，在沟槽及型腔加工中能表现出优异的性能。
The unique shape of the chip groove can exhibit excellent performance in groove and cavity processing.



MAE3 铝合金 3 刃平刀

Aluminum 3 Flute Flat End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h5)	LC	L1	SD(h5)	齿数 Teeth number
MA	MAE3-01	1*3*50*4	1	3	50	4	3
MA	MAE3-015	1.5*4.5*50*4	1.5	4.5	50	4	3
MA	MAE3-02	2*6*50*4	2	6	50	4	3
MA	MAE3-025	2.5*8*50*4	2.5	8	50	4	3
MA	MAE3-03	3*8*50*4	3	8	50	4	3
MA	MAE3-03L	3*9*50*4	3	9	50	4	3
MA	MAE3-04	4*12*50*4	4	12	50	4	3
MA	MAE3-05	5*13*50*6	5	13	50	6	3
MA	MAE3-05L	5*15*50*6	5	15	50	6	3
MA	MAE3-06	6*16*50*6	6	16	50	6	3
MA	MAE3-06L	6*18*50*6	6	18	50	6	3
MA	MAE3-08	8*20*60*8	8	20	60	8	3
MA	MAE3-08L	8*24*60*8	8	24	60	8	3
MA	MAE3-10	10*25*75*10	10	25	75	10	3
MA	MAE3-10L	10*30*75*10	10	30	75	10	3
MA	MAE3-12	12*30*75*12	12	30	75	12	3
MA	MAE3-12L	12*36*75*12	12	36	75	12	3
MA	MAE3-16	16*45*100*16	16	45	100	16	3
MA	MAE3-18	18*45*100*18	18	45	100	18	3
MA	MAE3-20	20*45*100*20	20	45	100	20	3
MA	MAE3L-04	4*16*75*4	4	16	75	4	3
MA	MAE3L-06	6*25*75*6	6	25	75	6	3
MA	MAE3L-08	8*32*75*8	8	32	75	8	3
MA	MAE3L-10	10*45*100*10	10	45	100	10	3
MA	MAE3L-12	12*50*100*12	12	50	100	12	3
MA	MAE3L-16	16*60*150*16	16	60	150	16	3
MA	MAE3L-20	20*70*150*20	20	70	150	20	3

MAU Series

铝加工系列

ALUMINUM PROCESSING SERIES



超细晶粒的设计及均匀组织结构的基体，45 度螺旋角加上全抛光成型槽设计，适合各种粗精加工，尤其在侧铣加工上有更优异的光洁度和使用寿命。

The design of ultra-fine grains and the uniform microstructure of the matrix, combined with a 45 degree spiral angle and fully polished forming groove design, are suitable for various rough and fine machining, especially in side milling, with better smoothness and service life.



锋利的切削刃及刃口处理技术，有效防止积屑瘤的产生；

Sharp cutting edges and edge processing technology effectively prevent the formation of chip lumps;

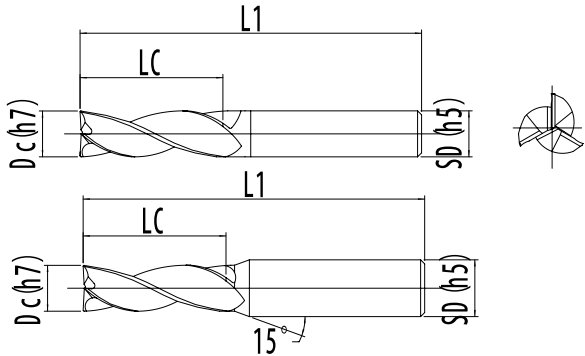


独特的成型槽设计，槽内抛光，优异的排屑功能。

Unique forming groove design, polishing inside the groove, excellent chip removal function.



■ MAU3 铝合金 3 刃 U 型平刀
Aluminum Alloy U-shaped 3 Flute
Flat End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h5)	LC	L1	SD(h5)	齿数 Teeth number
MAU	MAU3-06	6*18*50*6	6	18	50	6	3
MAU	MAU3L-06	6*25*75*6	6	25	75	6	3
MAU	MAU3-08	8*24*60*8	8	24	60	8	3
MAU	MAU3L-08	8*32*75*8	8	32	75	8	3
MAU	MAU3-10	10*30*75*10	10	30	75	10	3
MAU	MAU3L-10	10*45*100*10	10	45	100	10	3
MAU	MAU3X-10	10*55*150*10	10	55	150	10	3
MAU	MAU3-12	12*36*75*12	12	36	75	12	3
MAU	MAU3L-12	12*50*100*12	12	50	100	12	3
MAU	MAU3X-12	12*60*150*12	12	60	150	12	3
MAU	MAU3-16	16*45*100*16	16	45	100	16	3
MAU	MAU3L-16	16*60*150*16	16	60	150	16	3
MAU	MAU3-18	18*45*100*18	18	45	100	18	3
MAU	MAU3-20	20*45*100*20	20	45	100	20	3
MAU	MAU3L-20	20*70*150*20	20	70	150	20	3

备注：涂层 / 不涂层 订购可选
Note: Coated/uncoated Order optional

MA-plus Series
铝加工系列
ALUMINUM PROCESSING SERIES



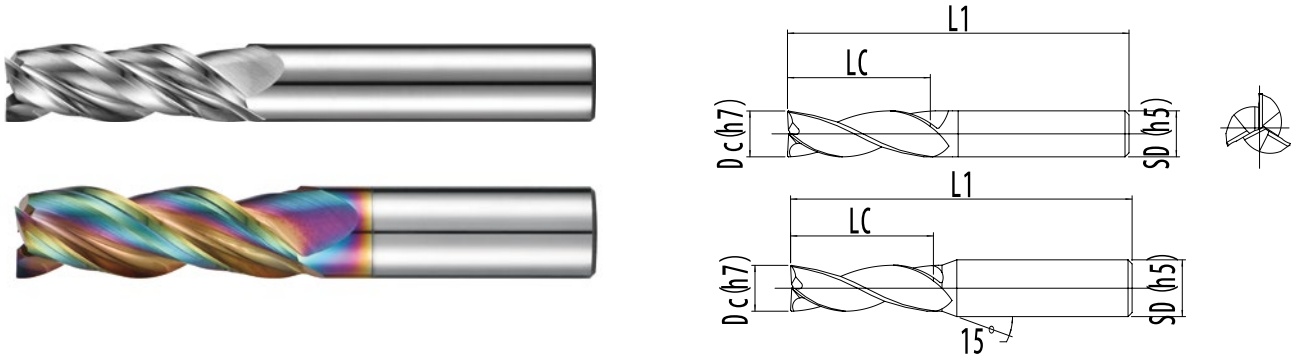
锋利的切削刃及刃口处理技术，有效防止积屑瘤的产生；
Sharp cutting edges and edge processing technology effectively prevent the formation of chip lumps;

独特的容屑槽形状，在沟槽及型腔加工中能表现出优异的性能。
The unique shape of the chip groove can exhibit excellent performance in groove and cavity processing.

超细晶粒的设计及均匀组织结构的基体，不等齿距不等螺旋角设计，适应各种工况下的中高速加工，并且在动态铣削方面有明显优势。
The design of ultrafine grains and the uniform microstructure of the matrix, as well as the unequal tooth pitch and helix angle design, are suitable for medium and high-speed machining under various working conditions, and have significant advantages in dynamic milling.



MAE3-plus 加强型铝合金 3 刃平刀
Enhanced Aluminum Alloy
3 Flute Flat End Mill



系列 Series	型号 Code	参数 Parameter	Dc(h5)	LC	L1	SD(h5)	齿数 Teeth number
MA-plus	MAE3-01-plus	1*3*50*4	1	3	50	4	3
MA-plus	MAE3-015-plus	1.5*4.5*50*4	1.5	4.5	50	4	3
MA-plus	MAE3-02-plus	2*6*50*4	2	6	50	4	3
MA-plus	MAE3-025-plus	2.5*8*50*4	2.5	8	50	4	3
MA-plus	MAE3-03-plus	3*9*50*4	3	9	50	4	3
MA-plus	MAE3-04-plus	4*12*50*4	4	12	50	4	3
MA-plus	MAE3L-04-plus	4*16*75*4	4	15	75	4	3
MA-plus	MAE3X-04-plus	4*20*100*4	4	20	100	4	3
MA-plus	MAE3-05-plus	5*15*50*6	5	15	50	6	3
MA-plus	MAE3-06-plus	6*18*50*6	6	18	50	6	3
MA-plus	MAE3L-06-plus	6*25*75*6	6	25	75	6	3
MA-plus	MAE3X-06-plus	6*30*100*6	6	30	100	6	3
MA-plus	MAE3-08-plus	8*24*60*8	8	24	60	8	3
MA-plus	MAE3L-08-plus	8*32*75*8	8	32	75	8	3
MA-plus	MAE3X-08-plus	8*35*100*8	8	35	100	8	3
MA-plus	MAE3-10-plus	10*30*75*10	10	30	75	10	3
MA-plus	MAE3L-10-plus	10*45*100*10	10	45	100	10	3
MA-plus	MAE3X-10-plus	10*55*150*10	10	55	150	10	3
MA-plus	MAE3-12-plus	12*36*75*12	12	36	75	12	3
MA-plus	MAE3L-12-plus	12*50*100*12	12	50	100	12	3
MA-plus	MAE3X-12-plus	12*60*150*12	12	60	150	12	3
MA-plus	MAE3-16-plus	16*45*100*16	16	45	100	16	3
MA-plus	MAE3L-16-plus	16*60*150*16	16	60	150	16	3
MA-plus	MAE3-18-plus	18*45*100*18	18	45	100	18	3
MA-plus	MAE3L-18-plus	18*70*150*18	18	70	150	18	3
MA-plus	MAE3-20-plus	20*45*100*20	20	45	100	20	3
MA-plus	MAE3L-20-plus	20*70*150*20	20	70	150	20	3

备注：涂层 / 不涂层 订购可选
Note: Coated/uncoated Order optional