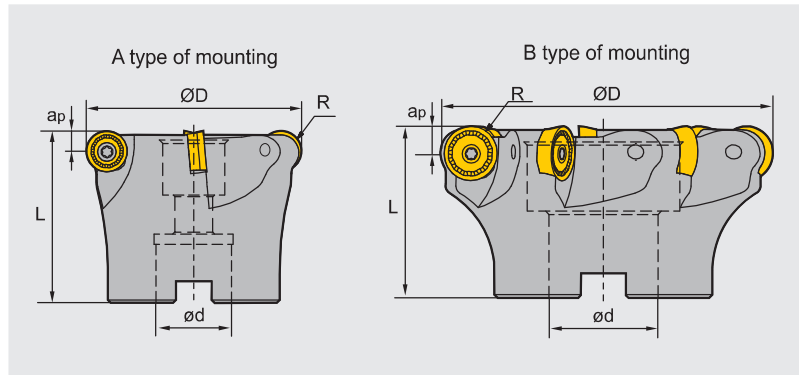


Face milling tools



FMR02 **P** **M** **K** **S**






Specification of tools

Type		Dimensions(inch)						
		ØD	R	ød	L	apmax	Z (Number of teeth)	Interface form
FMR02	-2.50"-A0.75" -RC12-04	2.50	0.236	0.75	2.00	0.236	4	A
	-3.00"-B1.00" -RC16-05	3.00	0.315	1.00	2.00	0.315	5	B
	-4.00"-B1.25" -RC16-06	4.00	0.315	1.25	2.50	0.315	6	B
	-5.00"-B1.50" -RC20-07	5.00	0.394	1.50	2.50	0.394	7	B
	-6.00"-B1.50" -RC20-08	6.00	0.394	1.50	2.50	0.394	8	B

D

Spare parts

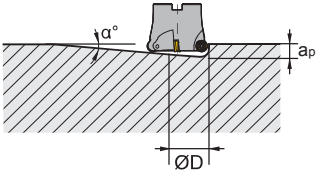
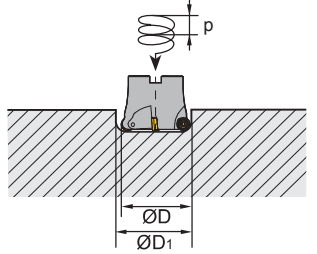
Diameter ØD	Insert specification	Insert screw	Wrench	Sketch of installation
				
Ø2.50"	RC□□1204MO-□□	I60M3.5×10	WT15IS	
Ø3.00"~Ø4.00"	RC□□1606MO-□□	I60M5×13	WT20IT	
Ø5.00"~Ø6.00"	RC□□2006MO-□□	I43M6×16	WT25IT	

Recommended cutting parameters

Workpiece material	Hardness HB	Insert grade	Cutting parameters				
			V(SFPM)	f(IPT)			
				-DM	-DR	-ER	
P	Low-carbon steel, Soft steel	≤ 180	YBM251	900(700-1200)	0.008(0.004-0.02)	0.012(0.008-0.032)	
			YBM351 YBG302	700(600-1000)	0.01(0.004-0.02)	0.012(0.008-0.032)	
			YBG202 YB9320	900(650-1200)	0.008(0.004-0.02)	0.012(0.008-0.032)	
	High-carbon steel, Alloy steel	180-280	YBM251	800(650-1000)	0.008(0.004-0.02)	0.012(0.008-0.032)	
			YBM351 YBG302	650(500-1000)	0.01(0.004-0.02)	0.012(0.008-0.032)	
			YBG202 YB9320	800(600-1200)	0.008(0.004-0.02)	0.012(0.008-0.032)	
	Alloy tool steel	280-350	YBM251	700(600-1000)	0.008(0.004-0.016)	0.012(0.008-0.032)	
			YBM351 YBG302	600(500-800)	0.008(0.004-0.02)	0.012(0.008-0.032)	
			YBG202 YB9320	700(550-1100)	0.008(0.004-0.016)	0.012(0.008-0.024)	
M	Stainless steel	≤ 270	YBM251	500(400-800)	0.008(0.004-0.016)	0.012(0.008-0.024)	
			YBM253	500(300-800)	0.008(0.004-0.016)	0.012(0.008-0.024)	0.012(0.008-0.024)
			YBM351	500(300-700)	0.008(0.004-0.016)	0.012(0.008-0.024)	
			YBG202 YBG205 YB9320	500(350-900)	0.008(0.004-0.016)	0.012(0.008-0.024)	
K	Cast iron	180-250	YBG302	700(400-1000)	0.008(0.004-0.02)	0.012(0.008-0.032)	
S	High-temperature alloy	≤ 400			-NM		
			YBG212	150(60-200)	0.004(0.004-0.008)		
			YBS203 YBS303	300(200-400)	0.006(0.004-0.012)		



Ramp milling, helical interpolation milling

	Insert	Diameter ØD(in)	Max.cutting depth ap(in)	Max.cutting depth α°	Min.length L _m (in)	Min.diameter ØD ₁ (in)	Max.diameter (in)
<p>● Ramp milling</p>  $L_m = \frac{a_p}{\tan \alpha}$ <p>α: Plunge angle</p>	RCKT12**	2.50"	0.236	5.1	2.657	4.488	0.236
	RCKT16**	3.00"	0.315	5.6	3.190	5.669	0.315
<p>● Helical interpolation milling</p>  $P = \tan \alpha \times \pi \times D_1$ <p>α: Helix angle</p>	RCKT16**	4.00"	0.315	4.1	4.362	7.244	0.315
	RCKT20**	5.00"	0.394	4.2	5.362	9.055	0.394
	RCKT20**	6.00"	0.394	3.0	7.512	11.810	0.394

Reduce the feed rate when plunging and circular milling.
 "Attention"—drilling can form long chips.

