

Tungsten Carbide Endmills



High Quality. Good Price. Fast delivery.

Contact:

Company name: Zhuzhou Better Tungsten Carbide Co., Ltd.
Address: NO.3402, Building 3, Yushanheyuan, Huanghe North Road,
Tianyuan District, Zhuzhou City, Hunan Province, P.R CHINA
Post code: 412000
Mobile: 86-13647338188
Tel: 86-0731-28705418
Fax: 86-0731-28510897
Email: sales@zzbetter.com
Website: www.zzbetter.com
Linked in: linda9638@hotmail.com
Face book: linda9638@hotmail.com



株洲贝特
zzbetter.com



Zhuzhou Better
Tungsten Carbide Co.,Ltd.

Company profile:

Zhuzhou Better Tungsten Carbide Co., Ltd locates in Zhuzhou City, where is the largest tungsten carbide producing area in China. With the geographical advantage. We specialize in:

- 1.CNC inserts(including tungsten carbide inserts, ceramet inserts, PCD inserts, CBN inserts)
- 2.tungsten carbide end mills
- 3.solid carbide rods
- 4.drawing dies, heading dies, die nibs
- 5.tungsten strips, blades
- 6.tungsten carbide roll rings
- 7.tungsten carbide disc cutters, round blades
- 8.cemented carbide brazed tips, saw tips,
- 9.tungsten carbide mining tool parts,
- 10.carbide stud and pins,
- 11.tungsten carbide and boron carbide balls and ball valves,
- 12.tungsten water jet cutting nozzles,
- 13.tungsten carbide, boron carbide and silicon carbide venturi nozzle
- 14.cast tungsten carbide welding rods, powder, ingots.
- 15.ferro tungsten.

We also have a technology trading company (Zhuzhou Better Trading Company), which is committed to resource best products for customer who want to get good quality and best price.

Zhuzhou Better Tungsten Carbide Co., Ltd has gathered professional staff members in the area of designing, producing and sales. Our workers are well trained and experienced. Our team is honest, positive, keeping promise, working hard and carefully.

Give us one opportunity, we will always provide you with good quality, moderate price ,fast delivery and professional service.!



Catalogue

GM series HRC≤45

Page **6-12**

2 Flutes flattened endmills Page **6**
2 Flutes flattened endmills with long shank



4 Flutes flattened endmills Page **7**
4 Flutes flattened endmills with long shank



2 Flutes ball nose endmills Page **8**
2 Flutes ball nose endmills with long shank



4 Flutes R endmills Page **9**
4 Flutes R endmills with long shank



4 Flutes roughing endmills Page **10**
2 Flutes flattened endmills for Aluminum alloys



2 Flutes flattened endmills with long shank for Aluminum alloys Page **11**
3 Flutes flattened endmills for Aluminum alloys



3 Flutes flattened endmills with long shank for Aluminum alloys Page **12**
2 Flutes ball nose endmills for cutting Aluminum alloys



PM series HRC≤55

Page 13-16

2 Flutes flattened endmills
2 Flutes flattened endmills with long shank



Page 13

4 Flutes flattened endmills
4 Flutes flattened endmills with long shank



Page 14

2 Flutes ball nose endmills
2 Flutes ball nose endmills with long shank



Page 15

4 Flutes R endmills
4 Flutes R endmills with long shank



Page 16

HM series HRC≤65

Page 17-20

2 Flutes flattened endmills
2 Flutes flattened endmills with long shank



Page 17

4 Flutes flattened endmills
4 Flutes flattened endmills with long shank



Page 18

2 Flutes ball nose endmills
2 Flutes ball nose endmills with long shank



Page 19

4 Flutes R endmills
4 Flutes R endmills with long shank



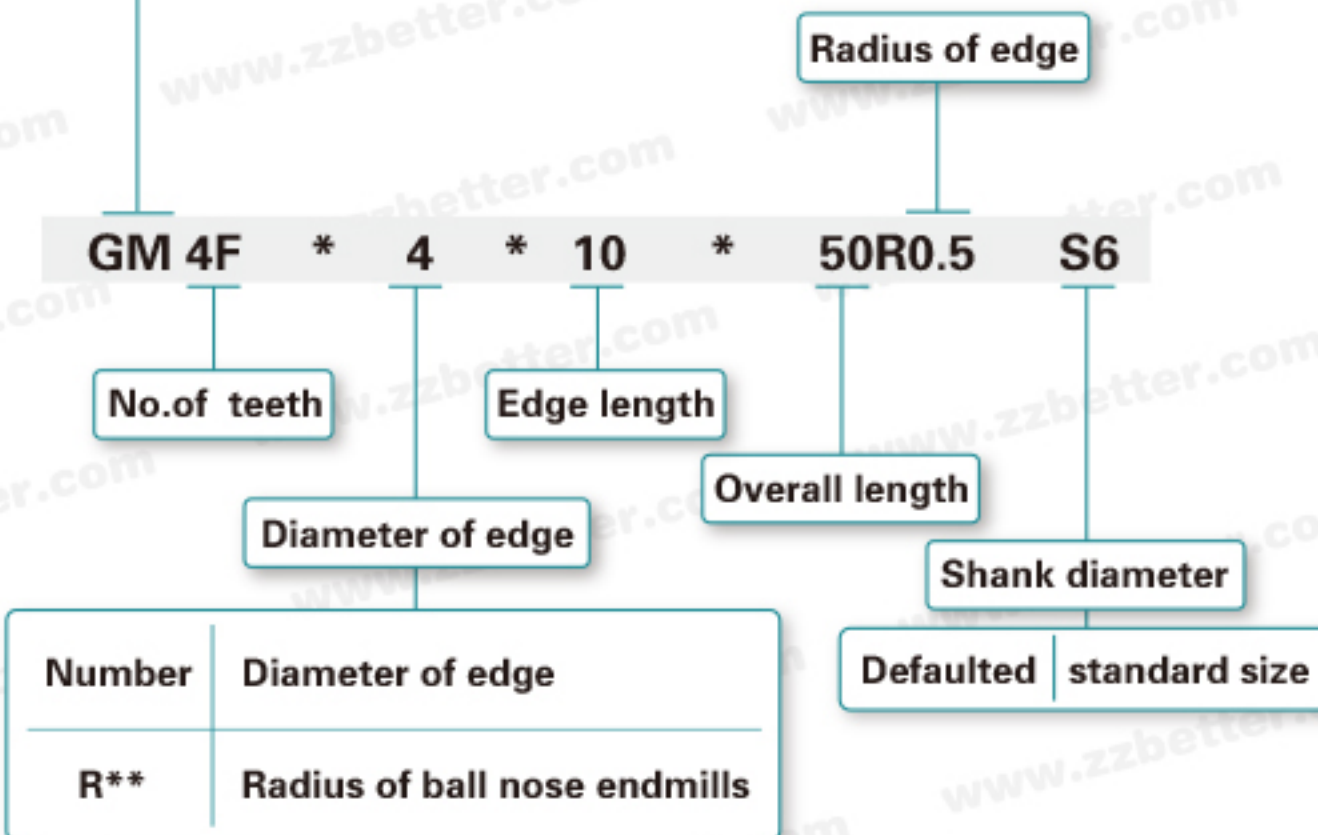
Page 20

Solid carbide endmills code key

Endmills series

GM	HRC45 endmills
PM	HRC55 endmills
HM	HRC65 endmills
GM-R	HRC45 roughing endmills
GM-A	HRC45 Aluminum endmills

Size unit:mm



GM series 2 Flutes flattened endmills
for general cutting all kinds of materials

HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-2F*1*3*50S4	1	3	50	4
GM-2F*1.5*4*50S4	1.5	4	50	4
GM-2F*2*6*50S4	2	6	50	4
GM-2F*2.5*8*50S4	2.5	8	50	4
GM-2F*3*8*50S4	3	8	50	4
GM-2F*3.5*10*50S4	3.5	10	50	4
GM-2F*4*10*50S4	4	10	50	4
GM-2F*5*13*50S6	5	13	50	6
GM-2F*6*15*50	6	15	50	6
GM-2F*7*20*60	7	20	60	8
GM-2F*8*20*60	8	20	60	8
GM-2F*9*25*75	9	25	75	10
GM-2F*10*25*75	10	25	75	10
GM-2F*11*30*75	11	30	75	12
GM-2F*12*30*75	12	30	75	12
GM-2F*14*35*80	14	35	80	14
GM-2F*16*40*100	16	40	100	16
GM-2F*18*40*100	18	40	100	18
GM-2F*20*40*100	20	40	100	20
GM-2F*21*50*100	21	50	100	21
GM-2F*22*50*100	22	50	100	22
GM-2F*23*50*100	23	50	100	23
GM-2F*24*50*100	24	50	100	24
GM-2F*25*50*100	25	50	100	25
GM-2F*26*50*100	26	50	100	26
GM-2F*27*50*100	27	50	100	27
GM-2F*28*50*100	28	50	100	28
GM-2F*29*50*100	29	50	100	29
GM-2F*30*50*100	30	50	100	30

GM series 2 Flutes flattened endmills with long shank
for general cutting all kinds of materials

HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-2F*4*20*75S4	4	20	75	4
GM-2F*5*20*75S6	5	20	75	6
GM-2F*6*20*75	6	20	75	6
GM-2F*8*25*75	8	25	75	8
GM-2F*10*40*100	10	40	100	10
GM-2F*12*40*100	12	40	100	12
GM-2F*14*40*100	14	40	100	14
GM-2F*16*50*150	16	50	150	16
GM-2F*18*50*150	18	50	150	18
GM-2F*20*50*150	20	50	150	20

GM series 4 Flutes flattened endmills
for general cutting all kinds of materials

HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-4F*1*3*50S4	1	3	50	4
GM-4F*1.5*4*50S4	1.5	4	50	4
GM-4F*2*6*50S4	2	6	50	4
GM-4F*2.5*8*50S4	2.5	8	50	4
GM-4F*3*8*50S4	3	8	50	4
GM-4F*3.5*10*50S4	3.5	10	50	4
GM-4F*4*10*50S4	4	10	50	4
GM-4F*5*13*50S6	5	13	50	6
GM-4F*6*15*50	6	15	50	6
GM-4F*7*20*60	7	20	60	8
GM-4F*8*20*60	8	20	60	8
GM-4F*9*25*75	9	25	75	10
GM-4F*10*25*75	10	25	75	10
GM-4F*11*30*75	11	30	75	12
GM-4F*12*30*75	12	30	75	12
GM-4F*14*35*80	14	35	80	14
GM-4F*16*40*100	16	40	100	16
GM-4F*18*40*100	18	40	100	18
GM-4F*20*40*100	20	40	100	20
GM-4F*21*50*100	21	50	100	21
GM-4F*22*50*100	22	50	100	22
GM-4F*23*50*100	23	50	100	23
GM-4F*24*50*100	24	50	100	24
GM-4F*25*50*100	25	50	100	25
GM-4F*26*50*100	26	50	100	26
GM-4F*27*50*100	27	50	100	27
GM-4F*28*50*100	28	50	100	28
GM-4F*29*50*100	29	50	100	29
GM-4F*30*50*100	30	50	100	30

GM series 4 Flutes flattened endmills with long shank
for general cutting all kinds of materials

HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-4F*4*20*75S4	4	20	75	4
GM-4F*5*20*75S6	5	20	75	6
GM-4F*6*20*75	6	20	75	6
GM-4F*8*25*75	8	25	75	8
GM-4F*10*40*100	10	40	100	10
GM-4F*12*40*100	12	40	100	12
GM-4F*14*40*100	14	40	100	14
GM-4F*16*50*150	16	50	150	16
GM-4F*18*50*150	18	50	150	18
GM-4F*20*50*150	20	50	150	20

GM series 2 Flutes ball nose endmills
for general cutting all kinds of materials



HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-2F*R0.5*50S4	1	2	50	4
GM-2F*R0.75*50S4	1.5	3	50	4
GM-2F*R1*50S4	2	4	50	4
GM-2F*R1.25*50S4	2.5	5	50	4
GM-2F*R1.5*50S4	3	6	50	4
GM-2F*R1.75*50S4	3.5	7	50	4
GM-2F*R2*50S4	4	8	50	4
GM-2F*R2.5*50S6	5	10	50	6
GM-2F*R3*50	6	12	50	6
GM-2F*R3.5*50S7	7	14	60	7
GM-2F*R4*50	8	16	60	8
GM-2F*R4.5*75S9	9	18	75	9
GM-2F*R5*75	10	20	75	10
GM-2F*R5.5*75S11	11	22	75	11
GM-2F*R6*75	12	24	75	12
GM-2F*R7*80	14	28	80	14
GM-2F*R8*100	16	32	100	16
GM-2F*R9*100	18	36	100	18
GM-2F*R10*100	20	40	100	20

GM series 2 Flutes ball nose endmills with long shank
for general cutting all kinds of materials



HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-2F*R2*75S4	4	8	75	4
GM-2F*R2.5*75S6	5	10	75	6
GM-2F*R3*75	6	12	75	6
GM-2F*R4*75	8	16	75	8
GM-2F*R5*100	10	20	100	10
GM-2F*R6*100	12	24	100	12
GM-2F*R7*100	14	28	100	14
GM-2F*R8*150	16	32	150	16
GM-2F*R9*150	18	36	150	18
GM-2F*R10*150	20	40	150	20

GM series 4 Flutes R endmills
for general cutting all kinds of materials



HRC ≤ 45°



Order no.	Edge diameter (D)	Corner radius (R)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-4F*6*15*50R0.5	6	0.5	15	50	6
GM-4F*6*15*50R1.0	6	1.0	15	50	6
GM-4F*6*15*50R2.0	6	2.0	15	50	6
GM-4F*8*20*60R0.5	8	0.5	20	60	8
GM-4F*8*20*60R1.0	8	1.0	20	60	8
GM-4F*8*20*60R2.0	8	2.0	20	60	8
GM-4F*10*25*75R0.5	10	0.5	25	75	10
GM-4F*10*25*75R1.0	10	1.0	25	75	10
GM-4F*10*25*75R2.0	10	2.0	25	75	10
GM-4F*12*30*75R0.5	12	0.5	30	75	12
GM-4F*12*30*75R1.0	12	1.0	30	75	12
GM-4F*12*30*75R2.0	12	2.0	30	75	12
GM-4F*14*35*80R0.5	14	0.5	35	80	14
GM-4F*14*35*80R1.0	14	1.0	35	80	14
GM-4F*14*35*80R2.0	14	2.0	35	80	14
GM-4F*16*40*100R0.5	16	0.5	40	100	16
GM-4F*16*40*100R1.0	16	1.0	40	100	16
GM-4F*16*40*100R2.0	16	2.0	40	100	16
GM-4F*18*40*100R0.5	18	0.5	40	100	18
GM-4F*18*40*100R1.0	18	1.0	40	100	18
GM-4F*18*40*100R2.0	18	2.0	40	100	18
GM-4F*20*40*100R0.5	20	0.5	40	100	20
GM-4F*20*40*100R1.0	20	1.0	40	100	20
GM-4F*20*40*100R2.0	20	2.0	40	100	20

GM series 4 Flutes R endmills with long shank
for general cutting all kinds of materials



HRC ≤ 45°



Order no.	Edge diameter (D)	Corner radius (R)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-4F*6*20*75R0.5	6	0.5	20	75	6
GM-4F*6*20*75R1.0	6	1.0	20	75	6
GM-4F*6*20*75R2.0	6	2.0	20	75	6
GM-4F*8*25*75R0.5	8	0.5	25	75	8
GM-4F*8*25*75R1.0	8	1.0	25	75	8
GM-4F*8*25*75R2.0	8	2.0	25	75	8
GM-4F*10*40*100R0.5	10	0.5	40	100	10
GM-4F*10*40*100R1.0	10	1.0	40	100	10
GM-4F*10*40*100R2.0	10	2.0	40	100	10
GM-4F*12*40*100R0.5	12	0.5	40	100	12
GM-4F*12*40*100R1.0	12	1.0	40	100	12
GM-4F*12*40*100R2.0	12	2.0	40	100	12
GM-4F*14*40*100R0.5	14	0.5	40	100	14
GM-4F*14*40*100R1.0	14	1.0	40	100	14
GM-4F*14*40*100R2.0	14	2.0	40	100	14
GM-4F*16*50*150R0.5	16	0.5	50	150	16
GM-4F*16*50*150R1.0	16	1.0	50	150	16
GM-4F*16*50*150R2.0	16	2.0	50	150	16
GM-4F*18*50*150R0.5	18	0.5	50	150	18
GM-4F*18*50*150R1.0	18	1.0	50	150	18
GM-4F*18*50*150R2.0	18	2.0	50	150	18
GM-4F*20*50*150R0.5	20	0.5	50	150	20
GM-4F*20*50*150R1.0	20	1.0	50	150	20
GM-4F*20*50*150R2.0	20	2.0	50	150	20

GM- R series 4 Flutes roughing endmills
for general cutting all kinds of materials



HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-R4F*6*15*50	6	15	50	6
GM-R4F*8*20*60	8	20	60	8
GM-R4F*10*25*75	10	25	75	10
GM-R4F*12*30*75	12	30	75	12
GM-R4F*14*35*80	14	35	80	14
GM-R4F*16*40*100	16	40	100	16
GM-R4F*18*40*100	18	40	100	18
GM-R4F*20*40*100	20	40	100	20

GM- A series 2 Flutes flattened endmills with long shank
for cutting Aluminum alloys



HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-A2F*4*20*75S4	4	20	75	4
GM-A2F*5*20*75S6	5	20	75	6
GM-A2F*6*20*75	6	20	75	6
GM-A2F*8*25*75	8	25	75	8
GM-A2F*10*40*100	10	40	100	10
GM-A2F*12*40*100	12	40	100	12
GM-A2F*14*40*100	14	40	100	14
GM-A2F*16*50*150	16	50	150	16
GM-A2F*18*50*150	18	50	150	18
GM-A2F*20*50*150	20	50	150	20

GM- A series 2 Flutes flattened endmills
for cutting Aluminum alloys



HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-A2F*1*3*50S4	1	3	50	4
GM-A2F*1.5*4*50S4	1.5	4	50	4
GM-A2F*2*6*50S4	2	6	50	4
GM-A2F*2.5*8*50S4	2.5	8	50	4
GM-A2F*3*8*50S4	3	8	50	4
GM-A2F*3.5*10*50S4	3.5	10	50	4
GM-A2F*4*10*50S4	4	10	50	4
GM-A2F*5*13*50S6	5	13	50	6
GM-A2F*6*15*50	6	15	50	6
GM-A2F*8*20*60	8	20	60	8
GM-A2F*10*25*75	10	25	75	10
GM-A2F*12*30*75	12	30	75	12
GM-A2F*14*35*80	14	35	80	14
GM-A2F*16*40*100	16	40	100	16
GM-A2F*18*40*100	18	40	100	18
GM-A2F*20*40*100	20	40	100	20

GM- A series 3 Flutes flattened endmills
for cutting Aluminum alloys



HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-A3F*1*3*50S4	1	3	50	4
GM-A3F*1.5*4*50S4	1.5	4	50	4
GM-A3F*2*6*50S4	2	6	50	4
GM-A3F*2.5*8*50S4	2.5	8	50	4
GM-A3F*3*8*50S4	3	8	50	4
GM-A3F*3.5*10*50S4	3.5	10	50	4
GM-A3F*4*10*50S4	4	10	50	4
GM-A3F*5*13*50S6	5	13	50	6
GM-A3F*6*15*50	6	15	50	6
GM-A3F*8*20*60	8	20	60	8
GM-A3F*10*25*75	10	25	75	10
GM-A3F*12*30*75	12	30	75	12
GM-A3F*14*35*80	14	35	80	14
GM-A3F*16*40*100	16	40	100	16
GM-A3F*18*40*100	18	40	100	18
GM-A3F*20*40*100	20	40	100	20

GM-A series 3 Flutes flattened endmills with long shank for cutting Aluminum alloys

HRC ≤ 45°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-A3F*4*20*7584	4	20	75	4
GM-A3F*5*20*7586	5	20	75	6
GM-A3F*6*20*75	6	20	75	6
GM-A3F*8*25*75	8	25	75	8
GM-A3F*10*40*100	10	40	100	10
GM-A3F*12*40*100	12	40	100	12
GM-A3F*14*40*100	14	40	100	14
GM-A3F*16*50*150	16	50	150	16
GM-A3F*18*50*150	18	50	150	18
GM-A3F*20*50*150	20	50	150	20

PM series 2 Flutes flattened endmills for cutting all kinds of materials

HRC ≤ 55°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-2F*1*3*5084	1	3	50	4
PM-2F*1.5*4*5084	1.5	4	50	4
PM-2F*2*5*5084	2	6	50	4
PM-2F*2.5*8*5084	2.5	8	50	4
PM-2F*3*8*5084	3	8	50	4
PM-2F*3.5*10*5084	3.5	10	50	4
PM-2F*4*10*5084	4	10	50	4
PM-2F*5*13*5086	5	13	50	6
PM-2F*6*15*50	6	15	50	6
PM-2F*7*20*60	7	20	60	8
PM-2F*8*20*60	8	20	60	8
PM-2F*9*25*75	9	25	75	10
PM-2F*10*25*75	10	25	75	10
PM-2F*11*30*75	11	30	75	12
PM-2F*12*30*75	12	30	75	12
PM-2F*14*35*80	14	35	80	14
PM-2F*16*40*100	16	40	100	16
PM-2F*18*40*100	18	40	100	18
PM-2F*20*40*100	20	40	100	20

GM-A series 2 Flutes ball nose endmills for cutting Aluminum alloys

HRC ≤ 45°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
GM-A2F*R0.5*5084	1	2	50	4
GM-A2F*R0.75*5084	1.5	3	50	4
GM-A2F*R1*5084	2	4	50	4
GM-A2F*R1.25*5084	2.5	5	50	4
GM-A2F*R1.5*5084	3	6	50	4
GM-A2F*R1.75*5084	3.5	7	50	4
GM-A2F*R2*5084	4	8	50	4
GM-A2F*R2.5*5086	5	10	50	6
GM-A2F*R3*50	6	12	50	6
GM-A2F*R4*60	8	16	60	8
GM-A2F*R5*75	10	20	75	10
GM-A2F*R6*75	12	24	75	12
GM-A2F*R7*80	14	28	80	14
GM-A2F*R8*100	16	32	100	16
GM-A2F*R9*100	18	36	100	18
GM-A2F*R10*100	20	40	100	20

PM series 2 Flutes flattened endmills with long shank for cutting all kinds of materials

HRC ≤ 55°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-2F*4*20*7584	4	20	75	4
PM-2F*5*20*7586	5	20	75	6
PM-2F*6*20*75	6	20	75	6
PM-2F*8*25*75	8	25	75	8
PM-2F*10*40*100	10	40	100	10
PM-2F*12*40*100	12	40	100	12
PM-2F*14*40*100	14	40	100	14
PM-2F*16*50*150	16	50	150	16
PM-2F*18*50*150	18	50	150	18
PM-2F*20*50*150	20	50	150	20

PM series 4 Flutes flattened endmills for cutting all kinds of materials

HRC ≤ 55°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-4F*1*3*50S4	1	3	50	4
PM-4F*1.5*4*50S4	1.5	4	50	4
PM-4F*2*6*50S4	2	6	50	4
PM-4F*2.5*8*50S4	2.5	8	50	4
PM-4F*3*8*50S4	3	8	50	4
PM-4F*3.5*10*50S4	3.5	10	50	4
PM-4F*4*10*50S4	4	10	50	4
PM-4F*5*13*50S6	5	13	50	6
PM-4F*6*15*50	6	15	50	6
PM-4F*7*20*60	7	20	60	8
PM-4F*8*20*60	8	20	60	8
PM-4F*9*25*75	9	25	75	10
PM-4F*10*25*75	10	25	75	10
PM-4F*11*30*75	11	30	75	12
PM-4F*12*30*75	12	30	75	12
PM-4F*14*35*80	14	35	80	14
PM-4F*16*40*100	16	40	100	16
PM-4F*18*40*100	18	40	100	18
PM-4F*20*40*100	20	40	100	20

PM series 2 Flutes ball nose endmills for cutting all kinds of materials

HRC ≤ 55°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-2F*R0.5*50S4	1	2	50	4
PM-2F*R0.75*50S4	1.5	3	50	4
PM-2F*R1*50S4	2	4	50	4
PM-2F*R1.25*50S4	2.5	5	50	4
PM-2F*R1.5*50S4	3	6	50	4
PM-2F*R1.75*50S4	3.5	7	50	4
PM-2F*R2*50S4	4	8	50	4
PM-2F*R2.5*50S6	5	10	50	6
PM-2F*R3*50	6	12	50	6
PM-2F*R3.5*60S7	7	14	60	7
PM-2F*R4*60	8	16	60	8
PM-2F*R4.5*75S9	9	18	75	9
PM-2F*R5*75	10	20	75	10
PM-2F*R5.5*75S11	11	22	75	11
PM-2F*R6*75	12	24	75	12
PM-2F*R7*80	14	28	80	14
PM-2F*R8*100	16	32	100	16
PM-2F*R9*100	18	36	100	18
PM-2F*R10*100	20	40	100	20

PM series 4 Flutes flattened endmills with long shank for cutting all kinds of materials

HRC ≤ 55°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-4F*4*20*75S4	4	20	75	4
PM-4F*5*20*75S6	5	20	75	6
PM-4F*6*20*75	6	20	75	6
PM-4F*8*25*75	8	25	75	8
PM-4F*10*40*100	10	40	100	10
PM-4F*12*40*100	12	40	100	12
PM-4F*14*40*100	14	40	100	14
PM-4F*16*50*150	16	50	150	16
PM-4F*18*50*150	18	50	150	18
PM-4F*20*50*150	20	50	150	20

PM series 2 Flutes ball nose endmills with long shank for cutting all kinds of materials

HRC ≤ 55°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-2F*R2*75S4	4	8	75	4
PM-2F*R2.5*75S6	5	10	75	6
PM-2F*R3*75	6	12	75	6
PM-2F*R4*75	8	16	75	8
PM-2F*R5*100	10	20	100	10
PM-2F*R6*100	12	24	100	12
PM-2F*R7*100	14	28	100	14
PM-2F*R8*150	16	32	150	16
PM-2F*R9*150	18	36	150	18
PM-2F*R10*150	20	40	150	20

PM series 4 Flutes R endmills
for cutting all kinds of materials



HRC ≤ 55°



Order no.	Edge diameter (D)	Corner radius (R)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-4F*6*15*50R0.5	6	0.5	15	50	6
PM-4F*6*15*50R1.0	6	1.0	15	50	6
PM-4F*6*15*50R2.0	6	2.0	15	50	6
PM-4F*8*20*60R0.5	8	0.5	20	60	8
PM-4F*8*20*60R1.0	8	1.0	20	60	8
PM-4F*8*20*60R2.0	8	2.0	20	60	8
PM-4F*10*25*75R0.5	10	0.5	25	75	10
PM-4F*10*25*75R1.0	10	1.0	25	75	10
PM-4F*10*25*75R2.0	10	2.0	25	75	10
PM-4F*12*30*75R0.5	12	0.5	30	75	12
PM-4F*12*30*75R1.0	12	1.0	30	75	12
PM-4F*12*30*75R2.0	12	2.0	30	75	12
PM-4F*14*35*80R0.5	14	0.5	35	80	14
PM-4F*14*35*80R1.0	14	1.0	35	80	14
PM-4F*14*35*80R2.0	14	2.0	35	80	14
PM-4F*16*40*100R0.5	16	0.5	40	100	16
PM-4F*16*40*100R1.0	16	1.0	40	100	16
PM-4F*16*40*100R2.0	16	2.0	40	100	16
PM-4F*18*40*100R0.5	18	0.5	40	100	18
PM-4F*18*40*100R1.0	18	1.0	40	100	18
PM-4F*18*40*100R2.0	18	2.0	40	100	18
PM-4F*20*40*100R0.5	20	0.5	40	100	20
PM-4F*20*40*100R1.0	20	1.0	40	100	20
PM-4F*20*40*100R2.0	20	2.0	40	100	20

PM series 4 Flutes R endmills with long shank
for cutting all kinds of materials



HRC ≤ 55°



Order no.	Edge diameter (D)	Corner radius (R)	Edge length (l)	Overall length (L)	Shank diameter (d)
PM-4F*6*20*75R0.5	6	0.5	20	75	6
PM-4F*6*20*75R1.0	6	1.0	20	75	6
PM-4F*6*20*75R2.0	6	2.0	20	75	6
PM-4F*8*25*75R0.5	8	0.5	25	75	8
PM-4F*8*25*75R1.0	8	1.0	25	75	8
PM-4F*8*25*75R2.0	8	2.0	25	75	8
PM-4F*10*40*100R0.5	10	0.5	40	100	10
PM-4F*10*40*100R1.0	10	1.0	40	100	10
PM-4F*10*40*100R2.0	10	2.0	40	100	10
PM-4F*12*40*100R0.5	12	0.5	40	100	12
PM-4F*12*40*100R1.0	12	1.0	40	100	12
PM-4F*12*40*100R2.0	12	2.0	40	100	12
PM-4F*14*40*100R0.5	14	0.5	40	100	14
PM-4F*14*40*100R1.0	14	1.0	40	100	14
PM-4F*14*40*100R2.0	14	2.0	40	100	14
PM-4F*16*50*150R0.5	16	0.5	50	150	16
PM-4F*16*50*150R1.0	16	1.0	50	150	16
PM-4F*16*50*150R2.0	16	2.0	50	150	16
PM-4F*18*50*150R0.5	18	0.5	50	150	18
PM-4F*18*50*150R1.0	18	1.0	50	150	18
PM-4F*18*50*150R2.0	18	2.0	50	150	18
PM-4F*20*50*150R0.5	20	0.5	50	150	20
PM-4F*20*50*150R1.0	20	1.0	50	150	20
PM-4F*20*50*150R2.0	20	2.0	50	150	20

HM series 2 Flutes flattened endmills
for cutting all kinds of materials



HRC ≤ 65°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-2F*1*3*50S4	1	3	50	4
HM-2F*1.5*4*50S4	1.5	4	50	4
HM-2F*2*6*50S4	2	6	50	4
HM-2F*2.5*8*50S4	2.5	8	50	4
HM-2F*3*8*50S4	3	8	50	4
HM-2F*3.5*10*50S4	3.5	10	50	4
HM-2F*4*10*50S4	4	10	50	4
HM-2F*5*13*50S6	5	13	50	6
HM-2F*6*15*50	6	15	50	6
HM-2F*8*20*60	8	20	60	8
HM-2F*10*25*75	10	25	75	10
HM-2F*12*30*75	12	30	75	12
HM-2F*14*35*80	14	35	80	14
HM-2F*16*40*100	16	40	100	16
HM-2F*18*40*100	18	40	100	18
HM-2F*20*40*100	20	40	100	20

HM series 2 Flutes flattened endmills with long shank
for cutting all kinds of materials



HRC ≤ 65°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-2F*4*20*75S4	4	20	75	4
HM-2F*5*20*75S6	5	20	75	6
HM-2F*6*20*75	6	20	75	6
HM-2F*8*25*75	8	25	75	8
HM-2F*10*40*100	10	40	100	10
HM-2F*12*40*100	12	40	100	12
HM-2F*14*40*100	14	40	100	14
HM-2F*16*50*150	16	50	150	16
HM-2F*18*50*150	18	50	150	18
HM-2F*20*50*150	20	50	150	20

HM series 4 Flutes flattened endmills for cutting all kinds of materials

HRC ≤ 65°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-4F*1*3*50S4	1	3	50	4
HM-4F*1.5*4*50S4	1.5	4	50	4
HM-4F*2*6*50S4	2	6	50	4
HM-4F*2.5*8*50S4	2.5	8	50	4
HM-4F*3*8*50S4	3	8	50	4
HM-4F*3.5*10*50S4	3.5	10	50	4
HM-4F*4*10*50S4	4	10	50	4
HM-4F*5*13*50S6	5	13	50	6
HM-4F*6*15*50	6	15	50	6
HM-4F*8*20*60	8	20	60	8
HM-4F*10*25*75	10	25	75	10
HM-4F*12*30*75	12	30	75	12
HM-4F*14*35*80	14	35	80	14
HM-4F*16*40*100	16	40	100	16
HM-4F*18*40*100	18	40	100	18
HM-4F*20*40*100	20	40	100	20

HM series 2 Flutes ball nose endmills for cutting all kinds of materials

HRC ≤ 65°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-2F*R0.5*50S4	1	2	50	4
HM-2F*R0.75*50S4	1.5	3	50	4
HM-2F*R1*50S4	2	4	50	4
HM-2F*R1.25*50S4	2.5	5	50	4
HM-2F*R1.5*50S4	3	6	50	4
HM-2F*R1.75*50S4	3.5	7	50	4
HM-2F*R2*50S4	4	8	50	4
HM-2F*R2.5*50S6	5	10	50	6
HM-2F*R3*50	6	12	50	6
HM-2F*R4*60	8	16	60	8
HM-2F*R5*75	10	20	75	10
HM-2F*R6*75	12	24	75	12
HM-2F*R7*80	14	28	80	14
HM-2F*R8*100	16	32	100	16
HM-2F*R9*100	18	36	100	18
HM-2F*R10*100	20	40	100	20

HM series 4 Flutes flattened endmills with long shank for cutting all kinds of materials

HRC ≤ 65°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-4F*4*20*75S4	4	20	75	4
HM-4F*5*20*75S6	5	20	75	6
HM-4F*6*20*75	6	20	75	6
HM-4F*8*25*75	8	25	75	8
HM-4F*10*40*100	10	40	100	10
HM-4F*12*40*100	12	40	100	12
HM-4F*14*40*100	14	40	100	14
HM-4F*16*50*150	16	50	150	16
HM-4F*18*50*150	18	50	150	18
HM-4F*20*50*150	20	50	150	20

HM series 2 Flutes ball nose endmills with long shank for cutting all kinds of materials

HRC ≤ 65°


Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-2F*R2*75S4	4	8	75	4
HM-2F*R2.5*75S6	5	10	75	6
HM-2F*R3*75	6	12	75	6
HM-2F*R4*75	8	16	75	8
HM-2F*R5*100	10	20	100	10
HM-2F*R6*100	12	24	100	12
HM-2F*R7*100	14	28	100	14
HM-2F*R8*150	16	32	150	16
HM-2F*R9*150	18	36	150	18
HM-2F*R10*150	20	40	150	20

**HM series 4 Flutes R endmills
for cutting all kinds of materials**

HRC ≤ 65°


Order no.	Edge diameter (D)	Corner radius (R)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-4F*6*15*50R0.5	6	0.5	15	50	6
HM-4F*6*15*50R1.0	6	1.0	15	50	6
HM-4F*6*15*50R2.0	6	2.0	15	50	6
HM-4F*8*20*60R0.5	8	0.5	20	60	8
HM-4F*8*20*60R1.0	8	1.0	20	60	8
HM-4F*8*20*60R2.0	8	2.0	20	60	8
HM-4F*10*25*75R0.5	10	0.5	25	75	10
HM-4F*10*25*75R1.0	10	1.0	25	75	10
HM-4F*10*25*75R2.0	10	2.0	25	75	10
HM-4F*12*30*75R0.5	12	0.5	30	75	12
HM-4F*12*30*75R1.0	12	1.0	30	75	12
HM-4F*12*30*75R2.0	12	2.0	30	75	12
HM-4F*14*35*80R0.5	14	0.5	35	80	14
HM-4F*14*35*80R1.0	14	1.0	35	80	14
HM-4F*14*35*80R2.0	14	2.0	35	80	14
HM-4F*16*40*100R0.5	16	0.5	40	100	16
HM-4F*16*40*100R1.0	16	1.0	40	100	16
HM-4F*16*40*100R2.0	16	2.0	40	100	16
HM-4F*18*40*100R0.5	18	0.5	40	100	18
HM-4F*18*40*100R1.0	18	1.0	40	100	18
HM-4F*18*40*100R2.0	18	2.0	40	100	18
HM-4F*20*40*100R0.5	20	0.5	40	100	20
HM-4F*20*40*100R1.0	20	1.0	40	100	20
HM-4F*20*40*100R2.0	20	2.0	40	100	20

**HM series 4 Flutes R endmills with long shank
for cutting all kinds of materials**

HRC ≤ 65°


Order no.	Edge diameter (D)	Corner radius (R)	Edge length (l)	Overall length (L)	Shank diameter (d)
HM-4F*6*20*75R0.5	6	0.5	20	75	6
HM-4F*6*20*75R1.0	6	1.0	20	75	6
HM-4F*6*20*75R2.0	6	2.0	20	75	6
HM-4F*8*25*75R0.5	8	0.5	25	75	8
HM-4F*8*25*75R1.0	8	1.0	25	75	8
HM-4F*8*25*75R2.0	8	2.0	25	75	8
HM-4F*10*40*100R0.5	10	0.5	40	100	10
HM-4F*10*40*100R1.0	10	1.0	40	100	10
HM-4F*10*40*100R2.0	10	2.0	40	100	10
HM-4F*12*40*100R0.5	12	0.5	40	100	12
HM-4F*12*40*100R1.0	12	1.0	40	100	12
HM-4F*12*40*100R2.0	12	2.0	40	100	12
HM-4F*14*40*100R0.5	14	0.5	40	100	14
HM-4F*14*40*100R1.0	14	1.0	40	100	14
HM-4F*14*40*100R2.0	14	2.0	40	100	14
HM-4F*16*50*150R0.5	16	0.5	50	150	16
HM-4F*16*50*150R1.0	16	1.0	50	150	16
HM-4F*16*50*150R2.0	16	2.0	50	150	16
HM-4F*18*50*150R0.5	18	0.5	50	150	18
HM-4F*18*50*150R1.0	18	1.0	50	150	18
HM-4F*18*50*150R2.0	18	2.0	50	150	18
HM-4F*20*50*150R0.5	20	0.5	50	150	20
HM-4F*20*50*150R1.0	20	1.0	50	150	20
HM-4F*20*50*150R2.0	20	2.0	50	150	20

Solid carbide rods

Description	Grade	OD (inch)	Length (inch)
solid rods	BT10S	1/8	12
solid rods	BT10S	1/4	2 1/4
solid rods	BT10S	1/2	2 1/2
solid rods	BT10S	5/16	2
solid rods	BT10S	5/16	3
solid rods	BT10S	5/16	2 1/2
solid rods	BT10S	7/16	2
solid rods	BT10S	7/16	4 1/2
solid rods	BT10S	5/8	5
solid rods	BT10S	5/8	6
solid rods	BT10S	5/8	2 1/2
solid rods	BT10S	3/4	2 1/2
solid rods	BT10S	3/4	4
solid rods	BT10S	3/4	5
solid rods	BT10S	3/4	6
solid rods	BT10S	3/4	12
solid rods	BT10S	3/4	13
solid rods	BT10S	7/8	4
solid rods	BT10S	7/8	6

Grade properties of solid carbide

Grade	Co(wt%)	WC particle size(μm)	Density(g/cm ³)	Hardness(HRA)
BT10S	10	≤0.7	14.40	92

