

Fast Service With Honesty!

Solid carbide endmills



ABT Carbide Tools

Catalogue

HRC≤45

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2 Flutes flattened endmills with long shank



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2 Flutes flattened endmills with long shank



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4 Flutes R endmills with long shank



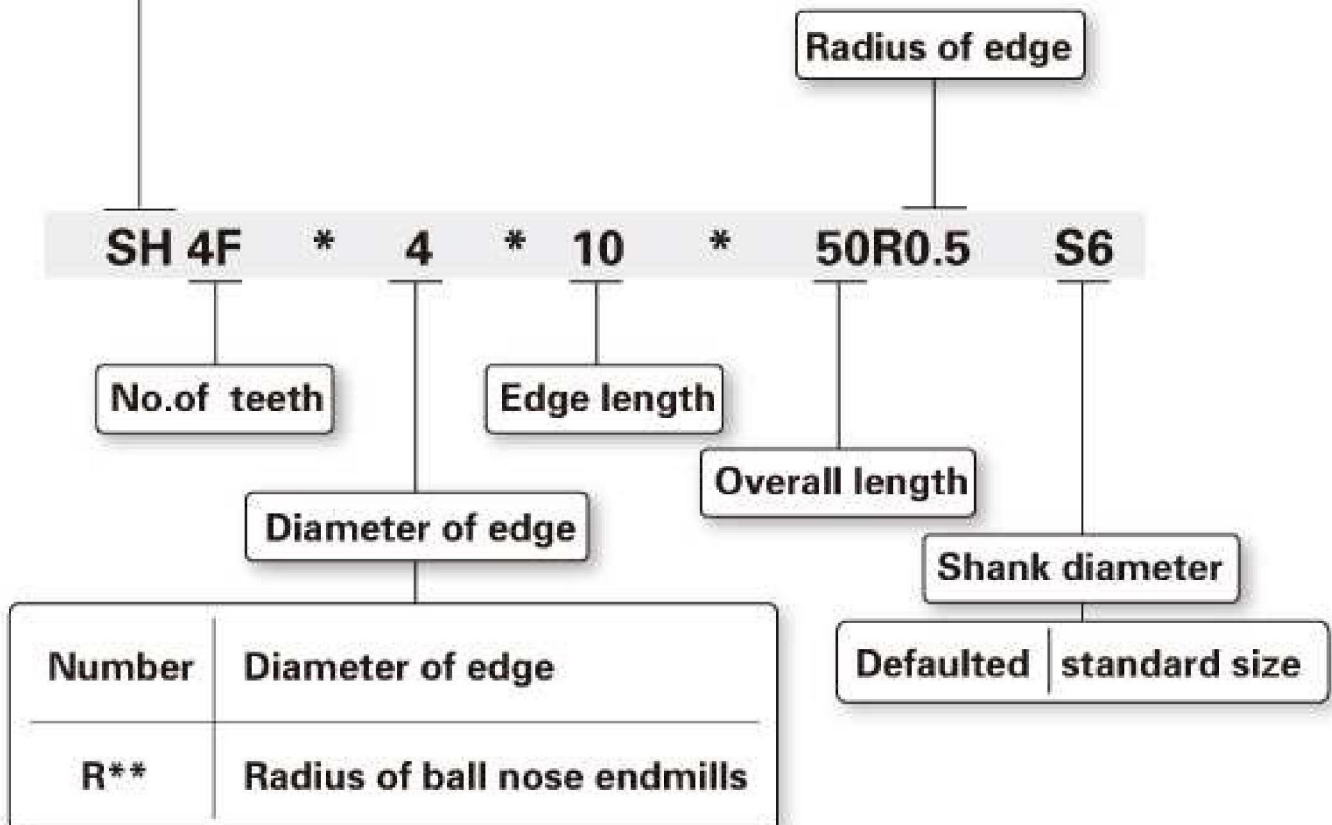
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Solid carbide endmills code key

Endmills series

Defaulted	HRC45 endmills
H	HRC55 endmills
SH	HRC65 endmills
R	HRC45 roughing endmills
RH	HRC55 roughing endmills
RSH	HRC65 roughing endmills

Size unit:mm



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)
2F*1*3*50S4	1	3	50	4
2F*1.5*4*50S4	1.5	4	50	4
2F*2*6*50S4	2	6	50	4
2F*2.5*8*50S4	2.5	8	50	4
2F*3*8*50S4	3	8	50	4
2F*3.5*10*50S4	3.5	10	50	4
2F*4*10*50S4	4	10	50	4
2F*5*13*50S8	5	13	50	6
2F*6*15*50	6	15	50	6
2F*7*20*60	7	20	60	8
2F*8*20*60	8	20	60	8
2F*9*25*75	9	25	75	10
2F*10*25*75	10	25	75	10
2F*11*30*75	11	30	75	12
2F*12*30*75	12	30	75	12
2F*14*35*80	14	35	80	14
2F*16*40*100	16	40	100	16
2F*18*40*100	18	40	100	18
2F*20*40*100	20	40	100	20
2F*21*50*100	21	50	100	21
2F*22*50*100	22	50	100	22
2F*23*50*100	23	50	100	23
2F*24*50*100	24	50	100	24
2F*25*50*100	25	50	100	25
2F*26*50*100	26	50	100	26
2F*27*50*100	27	50	100	27
2F*28*50*100	28	50	100	28
2F*29*50*100	29	50	100	29
2F*30*50*100	30	50	100	30

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)
2F*4*20*75S4	4	20	75	4
2F*5*20*75S8	5	20	75	6
2F*6*20*75	6	20	75	6
2F*8*25*75	8	25	75	8
2F*10*40*100	10	40	100	10
2F*12*40*100	12	40	100	12
2F*14*40*100	14	40	100	14
2F*16*50*150	16	50	150	16
2F*18*50*150	18	50	150	18
2F*20*50*150	20	50	150	20

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)
4F*1.3*50S4	1	3	50	4
4F*1.5*4*50S4	1.5	4	50	4
4F*2*6*50S4	2	6	50	4
4F*2.5*8*50S4	2.5	8	50	4
4F*3*8*50S4	3	8	50	4
4F*3.5*10*50S4	3.5	10	50	4
4F*4*10*50S4	4	10	50	4
4F*5*13*50S8	5	13	50	6
4F*6*15*50	6	15	50	6
4F*7*20*60	7	20	60	8
4F*8*20*60	8	20	60	8
4F*8*25*75	8	25	75	10
4F*10*25*75	10	25	75	10
4F*11*30*75	11	30	75	12
4F*12*30*75	12	30	75	12
4F*14*35*80	14	35	80	14
4F*16*40*100	16	40	100	16
4F*18*40*100	18	40	100	18
4F*20*40*100	20	40	100	20
4F*21*50*100	21	50	100	21
4F*22*50*100	22	50	100	22
4F*23*50*100	23	50	100	23
4F*24*50*100	24	50	100	24
4F*25*50*100	25	50	100	25
4F*26*50*100	26	50	100	26
4F*27*50*100	27	50	100	27
4F*28*50*100	28	50	100	28
4F*29*50*100	29	50	100	29
4F*30*50*100	30	50	100	30

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)
4F*4*20*75S4	4	20	75	4
4F*5*20*75S8	5	20	75	6
4F*6*20*75	6	20	75	6
4F*8*25*75	8	25	75	8
4F*10*40*100	10	40	100	10
4F*12*40*100	12	40	100	12
4F*14*40*100	14	40	100	14
4F*16*50*150	16	50	150	16
4F*18*50*150	18	50	150	18
4F*20*50*150	20	50	150	20

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)
2F*R0.5*50S4	1	2	50	4
2F*R0.75*50S4	1.5	3	50	4
2F*R1*50S4	2	4	50	4
2F*R1.25*50S4	2.5	5	50	4
2F*R1.5*50S4	3	6	50	4
2F*R1.75*50S4	3.5	7	50	4
2F*R2*50S4	4	8	50	4
2F*R2.5*50S6	5	10	50	6
2F*R3*50	6	12	50	6
2F*R3.5*80S7	7	14	80	7
2F*R4*80	8	16	80	8
2F*R4.5*75S9	9	18	75	9
2F*R5*75	10	20	75	10
2F*R5.5*75S11	11	22	75	11
2F*R6*75	12	24	75	12
2F*R7*80	14	28	80	14
2F*R8*100	16	32	100	16
2F*R9*100	18	36	100	18
2F*R10*100	20	40	100	20

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)
2F*R2*75S4	4	8	75	4
2F*R2.5*75S6	5	10	75	6
2F*R3*75	6	12	75	6
2F*R4*75	8	16	75	8
2F*R5*100	10	20	100	10
2F*R6*100	12	24	100	12
2F*R7*100	14	28	100	14
2F*R8*150	16	32	150	16
2F*R9*150	18	36	150	18
2F*R10*150	20	40	150	20

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)
4F*6*15*50R0.5	6	0.5	15	50	6
4F*6*15*50R1.0	6	1.0	15	50	6
4F*6*15*50R2.0	6	2.0	15	50	6
4F*8*20*60R0.5	8	0.5	20	60	8
4F*8*20*60R1.0	8	1.0	20	60	8
4F*8*20*60R2.0	8	2.0	20	60	8
4F*10*25*75R0.5	10	0.5	25	75	10
4F*10*25*75R1.0	10	1.0	25	75	10
4F*10*25*75R2.0	10	2.0	25	75	10
4F*12*30*75R0.5	12	0.5	30	75	12
4F*12*30*75R1.0	12	1.0	30	75	12
4F*12*30*75R2.0	12	2.0	30	75	12
4F*14*35*80R0.5	14	0.5	35	80	14
4F*14*35*80R1.0	14	1.0	35	80	14
4F*14*35*80R2.0	14	2.0	35	80	14
4F*16*40*100R0.5	16	0.5	40	100	16
4F*16*40*100R1.0	16	1.0	40	100	16
4F*16*40*100R2.0	16	2.0	40	100	16
4F*18*40*100R0.5	18	0.5	40	100	18
4F*18*40*100R1.0	18	1.0	40	100	18
4F*18*40*100R2.0	18	2.0	40	100	18
4F*20*40*100R0.5	20	0.5	40	100	20
4F*20*40*100R1.0	20	1.0	40	100	20
4F*20*40*100R2.0	20	2.0	40	100	20

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)
4F*6*20*75R0.5	6	0.5	20	75	6
4F*6*20*75R1.0	6	1.0	20	75	6
4F*6*20*75R2.0	6	2.0	20	75	6
4F*8*25*75R0.5	8	0.5	25	75	8
4F*8*25*75R1.0	8	1.0	25	75	8
4F*8*25*75R2.0	8	2.0	25	75	8
4F*10*40*100R0.5	10	0.5	40	100	10
4F*10*40*100R1.0	10	1.0	40	100	10
4F*10*40*100R2.0	10	2.0	40	100	10
4F*12*40*100R0.5	12	0.5	40	100	12
4F*12*40*100R1.0	12	1.0	40	100	12
4F*12*40*100R2.0	12	2.0	40	100	12
4F*14*40*100R0.5	14	0.5	40	100	14
4F*14*40*100R1.0	14	1.0	40	100	14
4F*14*40*100R2.0	14	2.0	40	100	14
4F*16*50*150R0.5	16	0.5	50	150	16
4F*16*50*150R1.0	16	1.0	50	150	16
4F*16*50*150R2.0	16	2.0	50	150	16
4F*18*50*150R0.5	18	0.5	50	150	18
4F*18*50*150R1.0	18	1.0	50	150	18
4F*18*50*150R2.0	18	2.0	50	150	18
4F*20*50*150R0.5	20	0.5	50	150	20
4F*20*50*150R1.0	20	1.0	50	150	20
4F*20*50*150R2.0	20	2.0	50	150	20

4 Flutes roughing endmills for general cutting all kinds of materials

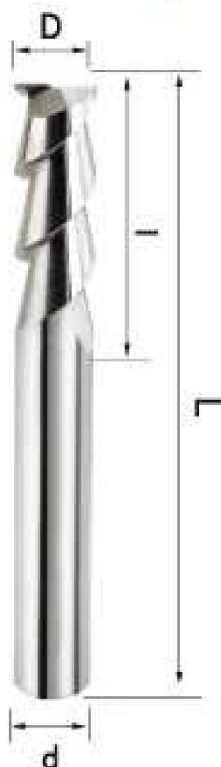


HRC ≤ 45°



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

2 Flutes flattened endmills for cutting Aluminum alloys

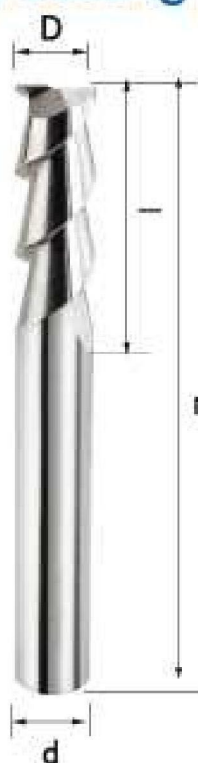


HRC ≤ 45°



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

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)
A2F*4*20*75S4	4	20	75	4
A2F*5*20*75S6	5	20	75	6
A2F*6*20*75	6	20	75	6
A2F*8*25*75	8	25	75	8
A2F*10*40*100	10	40	100	10
A2F*12*40*100	12	40	100	12
A2F*14*40*100	14	40	100	14
A2F*16*50*150	16	50	150	16
A2F*18*50*150	18	50	150	18
A2F*20*50*150	20	50	150	20

3 Flutes flattened endmills for cutting Aluminum alloys



HRC ≤ 45°



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

3 Flutes flattened endmills with long shank for cutting Aluminum alloys

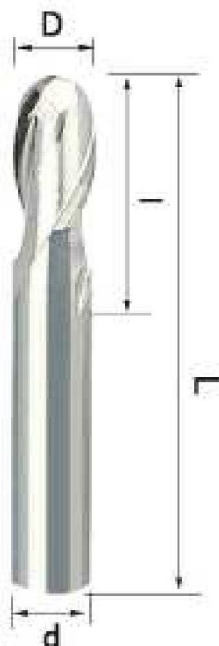


HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
A3F*4*20*75S4	4	20	75	4
A3F*5*20*75S6	5	20	75	6
A3F*6*20*75	6	20	75	6
A3F*8*25*75	8	25	75	8
A3F*10*40*100	10	40	100	10
A3F*12*40*100	12	40	100	12
A3F*14*40*100	14	40	100	14
A3F*16*50*150	16	50	150	16
A3F*18*50*150	18	50	150	18
A3F*20*50*150	20	50	150	20

2 Flutes ball nose endmills for cutting Aluminum alloys

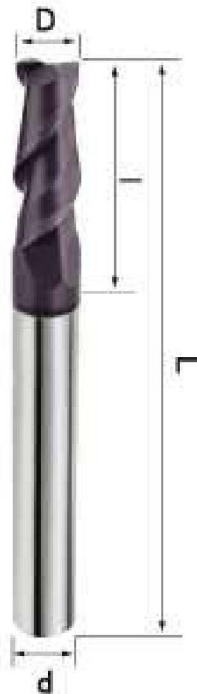


HRC ≤ 45°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
A2F*R0.5*50S4	1	2	50	4
A2F*R0.75*50S4	1.5	3	50	4
A2F*R1*50S4	2	4	50	4
A2F*R1.25*50S4	2.5	5	50	4
A2F*R1.5*50S4	3	6	50	4
A2F*R1.75*50S4	3.5	7	50	4
A2F*R2*50S4	4	8	50	4
A2F*R2.5*50S6	5	10	50	6
A2F*R3*50	6	12	50	6
A2F*R4*60	8	16	60	8
A2F*R5*75	10	20	75	10
A2F*R6*75	12	24	75	12
A2F*R7*80	14	28	80	14
A2F*R8*100	16	32	100	16
A2F*R9*100	18	36	100	18
A2F*R10*100	20	40	100	20

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)
H2F*1*3*50S4	1	3	50	4
H2F*1.5*4*50S4	1.5	4	50	4
H2F*2*6*50S4	2	6	50	4
H2F*2.5*8*50S4	2.5	8	50	4
H2F*3*8*50S4	3	8	50	4
H2F*3.5*10*50S4	3.5	10	50	4
H2F*4*10*50S4	4	10	50	4
H2F*5*13*50S6	5	13	50	6
H2F*6*15*50	6	15	50	6
H2F*7*20*60	7	20	60	8
H2F*8*20*60	8	20	60	8
H2F*9*25*75	9	25	75	10
H2F*10*25*75	10	25	75	10
H2F*11*30*75	11	30	75	12
H2F*12*30*75	12	30	75	12
H2F*14*35*80	14	35	80	14
H2F*16*40*100	16	40	100	16
H2F*18*40*100	18	40	100	18
H2F*20*40*100	20	40	100	20

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)
H2F*4*20*75S4	4	20	75	4
H2F*5*20*75S6	5	20	75	6
H2F*6*20*75	6	20	75	6
H2F*8*25*75	8	25	75	8
H2F*10*40*100	10	40	100	10
H2F*12*40*100	12	40	100	12
H2F*14*40*100	14	40	100	14
H2F*16*50*150	16	50	150	16
H2F*18*50*150	18	50	150	18
H2F*20*50*150	20	50	150	20

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)
H4F*1*3*50S4	1	3	50	4
H4F*1.5*4*50S4	1.5	4	50	4
H4F*2*6*50S4	2	6	50	4
H4F*2.5*8*50S4	2.5	8	50	4
H4F*3*8*50S4	3	8	50	4
H4F*3.5*10*50S4	3.5	10	50	4
H4F*4*10*50S4	4	10	50	4
H4F*5*13*50S8	5	13	50	6
H4F*6*15*50	6	15	50	6
H4F*7*20*60	7	20	60	8
H4F*8*20*60	8	20	60	8
H4F*9*25*75	9	25	75	10
H4F*10*25*75	10	25	75	10
H4F*11*30*75	11	30	75	12
H4F*12*30*75	12	30	75	12
H4F*14*35*80	14	35	80	14
H4F*16*40*100	16	40	100	16
H4F*18*40*100	18	40	100	18
H4F*20*40*100	20	40	100	20

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)
4F*4*20*75S4	4	20	75	4
4F*5*20*75S8	5	20	75	6
4F*8*20*75	6	20	75	6
4F*8*25*75	8	25	75	8
4F*10*40*100	10	40	100	10
4F*12*40*100	12	40	100	12
4F*14*40*100	14	40	100	14
4F*16*50*150	16	50	150	16
4F*18*50*150	18	50	150	18
4F*20*50*150	20	50	150	20

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)
H2F*R0.5*50S4	1	2	50	4
H2F*R0.75*50S4	1.5	3	50	4
H2F*R1*50S4	2	4	50	4
H2F*R1.25*50S4	2.5	5	50	4
H2F*R1.5*50S4	3	6	50	4
H2F*R1.75*50S4	3.5	7	50	4
H2F*R2*50S4	4	8	50	4
H2F*R2.5*50S6	5	10	50	6
H2F*R3*50	6	12	50	6
H2F*R3.5*60S7	7	14	60	7
H2F*R4*60	8	16	60	8
H2F*R4.5*75S8	9	18	75	9
H2F*R5*75	10	20	75	10
H2F*R5.5*75S11	11	22	75	11
H2F*R6*75	12	24	75	12
H2F*R7*80	14	28	80	14
H2F*R8*100	16	32	100	16
H2F*R8*100	18	36	100	18
H2F*R10*100	20	40	100	20

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)
H2F*R2*75S4	4	8	75	4
H2F*R2.5*75S6	5	10	75	6
H2F*R3*75	6	12	75	6
H2F*R4*75	8	16	75	8
H2F*R5*100	10	20	100	10
H2F*R6*100	12	24	100	12
H2F*R7*100	14	28	100	14
H2F*R8*150	16	32	150	16
H2F*R9*150	18	36	150	18
H2F*R10*150	20	40	150	20

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)
H4F*6*15*50R0.5	6	0.5	15	50	6
H4F*6*15*50R1.0	6	1.0	15	50	6
H4F*6*15*50R2.0	6	2.0	15	50	6
H4F*8*20*60R0.5	8	0.5	20	60	8
H4F*8*20*60R1.0	8	1.0	20	60	8
H4F*8*20*60R2.0	8	2.0	20	60	8
H4F*10*25*75R0.5	10	0.5	25	75	10
H4F*10*25*75R1.0	10	1.0	25	75	10
H4F*10*25*75R2.0	10	2.0	25	75	10
H4F*12*30*75R0.5	12	0.5	30	75	12
H4F*12*30*75R1.0	12	1.0	30	75	12
H4F*12*30*75R2.0	12	2.0	30	75	12
H4F*14*35*80R0.5	14	0.5	35	80	14
H4F*14*35*80R1.0	14	1.0	35	80	14
H4F*14*35*80R2.0	14	2.0	35	80	14
H4F*16*40*100R0.5	16	0.5	40	100	16
H4F*16*40*100R1.0	16	1.0	40	100	16
H4F*16*40*100R2.0	16	2.0	40	100	16
H4F*18*40*100R0.5	18	0.5	40	100	18
H4F*18*40*100R1.0	18	1.0	40	100	18
H4F*18*40*100R2.0	18	2.0	40	100	18
H4F*20*40*100R0.5	20	0.5	40	100	20
H4F*20*40*100R1.0	20	1.0	40	100	20
H4F*20*40*100R2.0	20	2.0	40	100	20

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)
H4F*6*20*75R0.5	6	0.5	20	75	6
H4F*6*20*75R1.0	6	1.0	20	75	6
H4F*6*20*75R2.0	6	2.0	20	75	6
H4F*8*25*75R0.5	8	0.5	25	75	8
H4F*8*25*75R1.0	8	1.0	25	75	8
H4F*8*25*75R2.0	8	2.0	25	75	8
H4F*10*40*100R0.5	10	0.5	40	100	10
H4F*10*40*100R1.0	10	1.0	40	100	10
H4F*10*40*100R2.0	10	2.0	40	100	10
H4F*12*40*100R0.5	12	0.5	40	100	12
H4F*12*40*100R1.0	12	1.0	40	100	12
H4F*12*40*100R2.0	12	2.0	40	100	12
H4F*14*40*100R0.5	14	0.5	40	100	14
H4F*14*40*100R1.0	14	1.0	40	100	14
H4F*14*40*100R2.0	14	2.0	40	100	14
H4F*16*50*150R0.5	16	0.5	50	150	16
H4F*16*50*150R1.0	16	1.0	50	150	16
H4F*16*50*150R2.0	16	2.0	50	150	16
H4F*18*50*150R0.5	18	0.5	50	150	18
H4F*18*50*150R1.0	18	1.0	50	150	18
H4F*18*50*150R2.0	18	2.0	50	150	18
H4F*20*50*150R0.5	20	0.5	50	150	20
H4F*20*50*150R1.0	20	1.0	50	150	20
H4F*20*50*150R2.0	20	2.0	50	150	20

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)
SH2F*1*3*50S4	1	3	50	4
SH2F*1.5*4*50S4	1.5	4	50	4
SH2F*2*6*50S4	2	6	50	4
SH2F*2.5*8*50S4	2.5	8	50	4
SH2F*3*8*50S4	3	8	50	4
SH2F*3.5*10*50S4	3.5	10	50	4
SH2F*4*10*50S4	4	10	50	4
SH2F*5*13*50S6	5	13	50	6
SH2F*6*15*50	6	15	50	6
SH2F*8*20*80	8	20	80	8
SH2F*10*25*75	10	25	75	10
SH2F*12*30*75	12	30	75	12
SH2F*14*35*80	14	35	80	14
SH2F*16*40*100	16	40	100	16
SH2F*18*40*100	18	40	100	18
SH2F*20*40*100	20	40	100	20

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)
SH2F*4*20*75S4	4	20	75	4
SH2F*5*20*75S6	5	20	75	6
SH2F*6*20*75	6	20	75	6
SH2F*8*25*75	8	25	75	8
SH2F*10*40*100	10	40	100	10
SH2F*12*40*100	12	40	100	12
SH2F*14*40*100	14	40	100	14
SH2F*16*50*150	16	50	150	16
SH2F*18*50*150	18	50	150	18
SH2F*20*50*150	20	50	150	20

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)
SH4F*1*3*50S4	1	3	50	4
SH4F*1.5*4*50S4	1.5	4	50	4
SH4F*2*6*50S4	2	6	50	4
SH4F*2.5*8*50S4	2.5	8	50	4
SH4F*3*8*50S4	3	8	50	4
SH4F*3.5*10*50S4	3.5	10	50	4
SH4F*4*10*50S4	4	10	50	4
SH4F*5*13*50S8	5	13	50	6
SH4F*6*15*50	6	15	50	6
SH4F*8*20*50	8	20	60	8
SH4F*10*25*75	10	25	75	10
SH4F*12*30*75	12	30	75	12
SH4F*14*35*80	14	35	80	14
SH4F*16*40*100	16	40	100	16
SH4F*18*40*100	18	40	100	18
SH4F*20*40*100	20	40	100	20

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

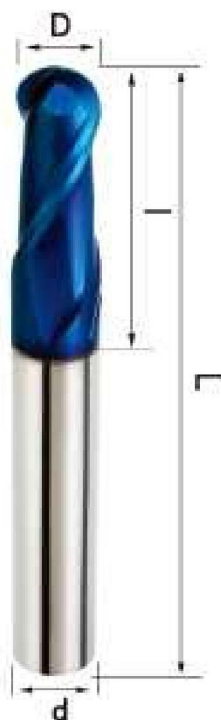


HRC ≤ 65°



Order no.	Edge diameter (D)	Edge length (l)	Overall length (L)	Shank diameter (d)
SH4F*4*20*75S4	4	20	75	4
SH4F*5*20*75S8	5	20	75	6
SH4F*6*20*75	6	20	75	6
SH4F*8*25*75	8	25	75	8
SH4F*10*40*100	10	40	100	10
SH4F*12*40*100	12	40	100	12
SH4F*14*40*100	14	40	100	14
SH4F*16*50*150	16	50	150	16
SH4F*18*50*150	18	50	150	18
SH4F*20*50*150	20	50	150	20

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)
SH2F*R0.5*50S4	1	2	50	4
SH2F*R0.75*50S4	1.5	3	50	4
SH2F*R1*50S4	2	4	50	4
SH2F*R1.25*50S4	2.5	5	50	4
SH2F*R1.5*50S4	3	6	50	4
SH2F*R1.75*50S4	3.5	7	50	4
SH2F*R2*50S4	4	8	50	4
SH2F*R2.5*50S6	5	10	50	6
SH2F*R3*50	6	12	50	6
SH2F*R4*80	8	16	80	8
SH2F*R5*75	10	20	75	10
SH2F*R6*75	12	24	75	12
SH2F*R7*80	14	28	80	14
SH2F*R8*100	16	32	100	16
SH2F*R9*100	18	36	100	18
SH2F*R10*100	20	40	100	20

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)
SH2F*R2*75S4	4	8	75	4
SH2F*R2.5*75S6	5	10	75	6
SH2F*R3*75	6	12	75	6
SH2F*R4*75	8	16	75	8
SH2F*R5*100	10	20	100	10
SH2F*R6*100	12	24	100	12
SH2F*R7*100	14	28	100	14
SH2F*R8*150	16	32	150	16
SH2F*R9*150	18	36	150	18
SH2F*R10*150	20	40	150	20

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)
SH4F*8*15*50R0.5	8	0.5	15	50	8
SH4F*8*15*50R1.0	8	1.0	15	50	8
SH4F*8*15*50R2.0	8	2.0	15	50	8
SH4F*8*20*60R0.5	8	0.5	20	60	8
SH4F*8*20*60R1.0	8	1.0	20	60	8
SH4F*8*20*60R2.0	8	2.0	20	60	8
SH4F*10*25*75R0.5	10	0.5	25	75	10
SH4F*10*25*75R1.0	10	1.0	25	75	10
SH4F*10*25*75R2.0	10	2.0	25	75	10
SH4F*12*30*75R0.5	12	0.5	30	75	12
SH4F*12*30*75R1.0	12	1.0	30	75	12
SH4F*12*30*75R2.0	12	2.0	30	75	12
SH4F*14*35*80R0.5	14	0.5	35	80	14
SH4F*14*35*80R1.0	14	1.0	35	80	14
SH4F*14*35*80R2.0	14	2.0	35	80	14
SH4F*16*40*100R0.5	16	0.5	40	100	16
SH4F*16*40*100R1.0	16	1.0	40	100	16
SH4F*16*40*100R2.0	16	2.0	40	100	16
SH4F*18*40*100R0.5	18	0.5	40	100	18
SH4F*18*40*100R1.0	18	1.0	40	100	18
SH4F*18*40*100R2.0	18	2.0	40	100	18
SH4F*20*40*100R0.5	20	0.5	40	100	20
SH4F*20*40*100R1.0	20	1.0	40	100	20
SH4F*20*40*100R2.0	20	2.0	40	100	20

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)
SH4F*6*20*75R0.5	6	0.5	20	75	6
SH4F*6*20*75R1.0	6	1.0	20	75	6
SH4F*6*20*75R2.0	6	2.0	20	75	6
SH4F*8*25*75R0.5	8	0.5	25	75	8
SH4F*8*25*75R1.0	8	1.0	25	75	8
SH4F*8*25*75R2.0	8	2.0	25	75	8
SH4F*10*40*100R0.5	10	0.5	40	100	10
SH4F*10*40*100R1.0	10	1.0	40	100	10
SH4F*10*40*100R2.0	10	2.0	40	100	10
SH4F*12*40*100R0.5	12	0.5	40	100	12
SH4F*12*40*100R1.0	12	1.0	40	100	12
SH4F*12*40*100R2.0	12	2.0	40	100	12
SH4F*14*40*100R0.5	14	0.5	40	100	14
SH4F*14*40*100R1.0	14	1.0	40	100	14
SH4F*14*40*100R2.0	14	2.0	40	100	14
SH4F*16*50*150R0.5	16	0.5	50	150	16
SH4F*16*50*150R1.0	16	1.0	50	150	16
SH4F*16*50*150R2.0	16	2.0	50	150	16
SH4F*18*50*150R0.5	18	0.5	50	150	18
SH4F*18*50*150R1.0	18	1.0	50	150	18
SH4F*18*50*150R2.0	18	2.0	50	150	18
SH4F*20*50*150R0.5	20	0.5	50	150	20
SH4F*20*50*150R1.0	20	1.0	50	150	20
SH4F*20*50*150R2.0	20	2.0	50	150	20