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Carbide Single End Mills for Steel (HRC55)

S/N	Cut Dia	Cut Length						Overall Length	Shank Dia	Price
1	0.4	1.2	1.5	1.8				38	3.175	2.52
2	0.5	1.5	2					38	3.175	2.52
3	0.6	1.5	2	3				38	3.175	2.14
4	0.7	2						38	3.175	2.14
5	0.8	2	3	4				38	3.175	1.76
6	0.9	5								2.04
7	1.0	2	3	4	6			38	3.175	1.76
8	1.1	3	6							1.95
9	1.2	4	6					38	3.175	1.76
10	1.4	6						38	3.175	1.76
11	1.5	4	6	8	10	12		38	3.175	1.76
12	1.6	6	8					38	3.175	1.76
13	1.8	6	8					38	3.175	1.76
14	1.9	8								1.95
15	2.0	4	6	8	10	12		38	3.175	1.76
16	2.0	15	17					38	3.175	1.76
17	2.0	22						45	3.175	2.04
18	2.5	6	8	10	12	15	17	38	3.175	1.76
19	3.0	6	8	10	12			38	3.175	1.76
20	3.175	6	8	10	12	15	17	38	3.175	1.76
21	3.175	20	22					45	3.175	2.14
22	3.175	25	28					50	3.175	2.52
23	3.175	32						55	3.175	3.18

S/N	Cut Dia	Cut Length				Overall Length	Shank Dia	Price
24	4.0	8	12	15		40	4	3.56
25	4.0	17	22			45	4	3.56
26	4.0	25	28			50	4	3.94
27	4.0	32				55	4	5.05
28	4.0	35				60	4	5.62
29	5.0	12	15	17	22	50	5	6.13
30	5.0	12	15	17	22	50	6	6.96
31	6.0	12	15	17	22	50	6	6.96
32	6.0	25	28			50	6	7.51
33	6.0	32				55	6	8.45
34	6.0	42				60	6	11.57
35	6.0	52				70	6	13.75
36	6.35	22				50	6.35	10.66
37	6.35	25				50	6.35	11.95
38	8.0	22	25			60	8	13.25
39	8.0	32				60	8	14.06
40	8.0	62				100	8	23.03
41	10.0	25				60	10	17.28
42	10.0	32				60	10	19.48
43	10.0	52				85		30.16
44	10.0	50				100	10	30.88
45	12.0	25				60	12	21.15
46	12.0	32				60	12	23.35
47	12.0	50				100	12	35.39

Standard Length Endmills with Square End / Ball Nose

Cut Dia (mm)		Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Unit Price (USD)		
Square 2F / 4F	Ball Nose				HRC45	HRC55	HRC65
1.0	R0.5	3	4	50	1.66	3.21	5.77
1.5	R0.75	4	4	50	1.66	3.21	5.77
2.0	R1.0	5	4	50	1.66	3.21	5.77
2.5	R1.25	6	4	50	1.66	3.21	5.77
3.0	R1.5	8	4	50	1.66	3.21	5.77
4.0	R2.0	10	4	50	1.66	3.21	5.77
5.0	R2.5	13	6	50	2.81	5.42	9.26
6.0	R3.0	15	6	50	2.81	5.42	9.26
7.0	R3.5	18	8	60	5.07	9.85	15.44
8.0	R4.0	20	8	60	5.07	9.85	15.44
9.0	R4.5	23	10	75	8.68	16.48	25.11
10.0	R5.0	25	10	75	8.68	16.48	25.11
12.0	R6.0	30	12	75	12.31	22.51	33.96
14.0	R7.0	35	14	100	22.61	37.58	55.98
16.0	R8.0	40	16	100	32.58	48.23	67.93
18.0	R9.0	45	18	100	41.61	62.30	0.00
20.0	R10.0	50	20	100	46.15	72.75	98.80

Extended Length Endmills with Square End / Ball Nose

Cut Dia (mm)		Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Unit Price (USD)		
Square 2F / 4F	Ball Nose				HRC45	HRC55	HRC65
3.0	R1.5	12	4	100	2.72	4.94	8.24
4.0	R2.0	16	4	75	2.45	4.64	7.20
4.0	R2.0	16	4	100	2.72	4.94	8.24
5.0	R2.5	20	6	75	4.16	8.24	12.56
5.0	R2.5	20	6	100	5.07	8.85	13.79
6.0	R3.0	24	6	75	4.16	8.24	12.56
6.0	R3.0	24	6	100	5.07	8.85	13.79
8.0	R4.0	32	8	75	6.34	11.73	18.53
8.0	R4.0	32	8	100	8.69	14.41	21.82
10.0	R5.0	40	10	100	12.31	21.00	32.32
12.0	R6.0	45	12	100	16.29	28.81	42.20
6.0	R3.0	40	6	150	9.41	16.06	21.00
8.0	R4.0	50	8	150	14.48	23.67	31.70
10.0	R5.0	55	10	150	19.00	31.39	45.29
12.0	R6.0	60	12	150	28.05	43.23	59.69
14.0	R7.0	70	14	150	37.10	61.75	
16.0	R8.0	75	16	150	46.17	69.78	
18.0	R9.0	75	18	150	53.38	86.45	
20.0	R10.0	75	20	150	65.14	102.30	

Standard Length Endmills with Corner Radius

Cut Dia (mm)	Radius (mm)	Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Unit Price (USD)		
					HRC45	HRC55	HRC65
1	R0.2	3	4	50	2.43	3.65	6.29
1.5	R0.2	4	4	50	2.43	3.65	6.29
2	R0.2	5	4	50	2.43	3.65	6.29
2	R0.5	5	4	50	2.43	3.65	6.29
3	R0.2	8	4	50	2.43	3.65	6.29
3	R0.5	8	4	50	2.43	3.65	6.29
3	R1.0	8	4	50	2.43	3.65	6.29
4	R0.2	10	4	50	2.43	3.65	6.29
4	R0.5	10	4	50	2.43	3.65	6.29
4	R1.0	10	4	50	2.43	3.65	6.29
5	R0.5	13	6	50	4.26	6.08	10.03
6	R0.2	15	6	50	4.26	6.08	10.03
6	R0.5	15	6	50	4.26	6.08	10.03
6	R1.0	15	6	50	4.26	6.08	10.03
8	R0.2	20	8	60	7.90	10.95	16.73
8	R0.5	20	8	60	7.90	10.95	16.73
8	R1.0	20	8	60	7.90	10.95	16.73
8	R1.5	20	8	60	7.90	10.95	16.73
8	R2.0	20	8	60	7.90	10.95	16.73
10	R0.5	25	10	75	12.94	18.25	27.17
10	R1.0	25	10	75	12.94	18.25	27.17
10	R1.5	25	10	75	12.94	18.25	27.17
10	R2.0	25	10	75	12.94	18.25	27.17
12	R0.5	30	12	75	16.71	24.94	36.80
12	R1.0	30	12	75	16.71	24.94	36.80
12	R1.5	30	12	75	16.71	24.94	36.80
12	R2.0	30	12	75	16.71	24.94	36.80
16	R1.0	40	16	100	44.24		61.47
16	R2.0	40	16	100	44.24		61.47

Extended Length Endmills with Corner Radius

Cut Dia (mm)	Radius (mm)	Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Unit Price (USD)		
					HRC45	HRC55	HRC65
3	R0.5	8	4	100	3.75	5.47	8.92
3	R1.0	8	4	100	3.75	5.47	8.92
4	R0.5	10	4	100	3.75	5.47	8.92
4	R1.0	10	4	100	3.75	5.47	8.92
5	R0.5	13	6	100	7.20	9.53	15.11
5	R1.0	13	6	100	7.20	9.53	15.11
6	R0.5	15	6	100	7.20	9.53	15.11
6	R1.0	15	6	100	7.20	9.53	15.11
8	R0.5	20	8	100	10.14	15.61	23.72
8	R1.0	20	8	100	10.14	15.61	23.72
10	R0.5	25	10	100	15.41	22.71	35.07
10	R1.0	25	10	100	15.41	22.71	35.07
12	R0.5	30	12	100	21.29	31.23	45.62
12	R1.0	30	12	100	21.29	31.23	45.62

Carbide Endmills with Square/ Ball Nose for ALU

Cut Dia (mm)		Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Price (USD)	
Square 2F / 3F	Ball Nose				HRC50	HRC55
1.0	R0.5	3 / 2	4	50	2.00	2.41
1.5	R0.75	4 / 3	4	50	2.00	2.41
2.0	R1.0	6 / 4	4	50	2.00	2.41
2.5	R1.25	7 / 5	4	50	2.00	2.41
3.0	R1.5	8 / 6	4	50	2.00	2.41
3.0	R1.5	8 / 6	4	75	2.76	3.40
3.0	R1.5	8 / 6	4	100	3.37	4.24
3.0	R1.5	8 / 6	3	50	2.00	2.41
3.0	R1.5	8 / 6	3	75	2.76	3.40
3.0	R1.5	8 / 6	3	100	3.37	4.24
4.0	R2.0	12 / 8	4	50	2.00	2.41
4.0	R2.0	12 / 8	4	75	2.76	3.40
4.0	R2.0	12 / 8	4	100	3.37	4.43
5.0	R2.5	15 / 10	6	50	3.10	4.28
5.0	R2.5	20 / 10	6	75	4.43	5.71
5.0	R2.5	25 / 10	6	100	5.14	7.36
6.0	R3.0	20 / 12	6	50	3.10	4.28
6.0	R3.0	25 / 12	6	75	4.43	5.71
6.0	R3.0	25 / 12	6	100	5.14	7.36
6.0	R3.0	30 / 12	6	150	10.84	12.88
8.0	R4.0	20 / 16	8	60	5.64	7.47
8.0	R4.0	25 / 16	8	100	8.96	11.06
8.0	R4.0	40 / 16	8	150	14.93	18.43
9.0	R4.5	25 / 18	10	75	9.73	11.95
10.0	R5.0	25 / 20	10	75	9.73	11.95
10.0	R5.0	40 / 20	10	100	13.05	15.86
10.0	R5.0	45 / 20	10	150	22.78	27.60
12.0	R6.0	30 / 24	12	75	12.72	16.81
12.0	R6.0	45 / 24	12	100	16.70	22.15
12.0	R6.0	50 / 24	12	150	28.54	40.57
14.0	R7.0	35 / 28	14	100	23.23	33.59
14.0	R7.0	50 / 28	14	150	37.38	44.19
16.0	R8.0	40 / 30	16	100	32.07	40.18
16.0	R8.0	55 / 30	16	150	49.77	58.49
18.0	R9.0	40 / 30	18	100	38.71	50.84
20.0	R10.0	40 / 30	20	100	45.34	60.53
20.0	R10.0	75 / 30	20	150	73.00	93.94

Carbide Endmills with Corner Radius For ALU

Cut Dia (mm)	Radius (mm)	Cut Length	Shank Dia (mm)	Overall Length	Flute	Unit Price (USD)
1.0	R0.2	3	4	50	3F	3.04
1.5	R0.2	4	4	50	3F	3.04
2.0	R0.2	6	4	50	3F	3.04
2.0	R0.5	6	4	50	3F	3.04
2.5	R0.2	7	4	50	3F	3.04
2.5	R0.5	7	4	50	3F	3.04
3.0	R0.2	9	4	50	3F	3.04
3.0	R0.5	9	4	50	3F	3.04
4.0	R0.2	12	4	50	3F	3.04
4.0	R0.5	12	4	50	3F	3.04
6.0	R0.2	20	6	50	3F	5.07
6.0	R0.5	20	6	50	3F	5.07
6.0	R1.0	20	6	50	3F	5.07
8.0	R0.2	24	8	60	3F	9.12
8.0	R0.5	24	8	60	3F	9.12
8.0	R1.0	24	8	60	3F	9.12
10.0	R0.2	30	10	75	3F	15.21
10.0	R0.5	30	10	75	3F	15.21
10.0	R1.0	30	10	75	3F	15.21
12.0	R0.2	30	12	75	3F	19.27
12.0	R0.5	30	12	75	3F	19.27
12.0	R1.0	30	12	75	3F	19.27

Carbide Roughing Endmills with Square End

Radius (mm)	Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Unit Price (USD)	
				ALU-3F	Coated-4F
4	10	4	50	4.06	5.07
6	15	6	50	5.88	7.10
8	20	8	60	9.33	11.15
10	25	10	75	14.80	19.27
12	30	12	75	19.67	22.31
14	40	14	100	35.48	37.72
16	45	16	100	46.44	49.68
18	45	18	100	55.96	59.20
20	45	20	100	69.34	73.00

Micro Endmills with Square End / Ball Nose

Cut Dia (mm)	Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Flute	Unit Price (USD)	
					General	ALU
0.1	0.2	D4	50	2	/	14.19
0.2	0.4	D4	50	2	5.07	5.07
0.3	0.6	D4	50	2	3.65	3.65
0.4	0.8	D4	50	2	3.65	3.65
0.5	1	D4	50	2	3.65	3.65
0.6	1.2	D4	50	2	3.65	3.65
0.7	1.4	D4	50	2	3.65	3.65
0.8	1.6	D4	50	2	3.65	3.65
0.9	1.8	D4	50	2	3.65	3.65

Long-Neck Micro Endmills with Square End

Cut Dia (mm)	Cut Length (mm)	Effective-Length (mm)	Shank Dia (mm)	Overall Length (mm)	Flute	Unit Price (USD)
0.4	0.8	1/2/3/4/5	4	50	2	4.56
0.5	1	2/3/4/6/8	4	50	2	4.56
0.6	1.2	2/3/4/6/8/10	4	50	2	4.56
0.7	1.4	2/4/6/8/10	4	50	2	4.56
0.8	1.6	2/4/6/8/10/12	4	50	2	4.56
0.9	1.8	2	4	50	2	4.56
1	3	6/8/10/12/15/20	4	50	2	4.56
1.5	4	6/8/10/12/15/20	4	50	2	4.56
2	5	8/10/12/15/20	4	50	2	4.56

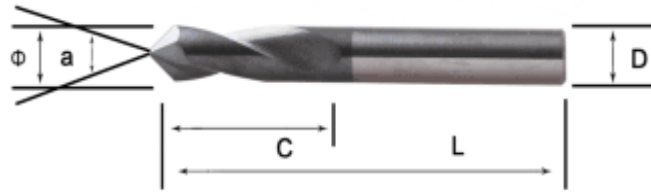
Long-Neck Micro Endmills with Ball Nose

Cut Dia (mm)	Cut Length (mm)	Effective-Length (mm)	Shank Dia (mm)	Overall Length (mm)	Flute	Unit Price (USD)
R0.2	0.8	0.8/2/3/4/5	D4	50	2	4.56
R0.25	1	1/2/3/4/6/8	D4	50	2	4.56
R0.3	1.2	1/2/3/4/6/8/10	D4	50	2	4.56
R0.4	1.6	2/4/6/8/10	D4	50	2	4.56
R0.5	2	6/8/10/12/15/20	D4	50	2	4.56
R0.75	3	6/8/10/12/15/20	D4	50	2	4.56
R1.0	6	6/8/10/12/15/20	D4	50	2	4.56



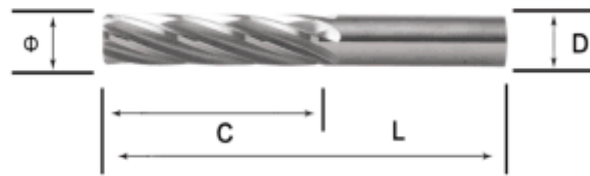
Carbide Chamfer Straight Endmills with Coating

Cut Dia (mm)	Shank Dia (mm)	Overall Length (mm)	Flute	Angle			Unit Price (USD)
				60°	90°	120°	
1.0	4	50	2	60°	90°	120°	2.63
1.2	4	50	2	60°	90°	120°	2.63
1.5	4	50	2	60°	90°	120°	2.63
2.0	4	50	2	60°	90°	120°	2.63
2.5	4	50	3	60°	90°	120°	2.63
3.0	4	50	3	60°	90°	120°	2.63
4.0	4	50	3	60°	90°	120°	2.63
6.0	6	50	3	60°	90°	120°	4.56
8.0	8	60	3	60°	90°	120°	8.11
10.0	10	75	3	60°	90°	120°	12.37
12.0	12	75	3	60°	90°	120°	17.64



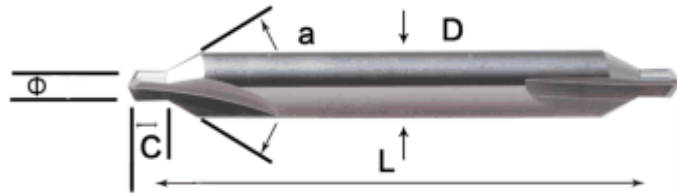
Carbide Spotting Drill with Spiral Flutes

Cut Dia (mm)	Shank Dia (mm)	Cut Length (mm)	Overall Length (mm)	Angle		Unit Price (USD)
1.0	4	3	50	90°	120°	2.43
1.2	4	3	50	90°	120°	2.43
1.5	4	4	50	90°	120°	2.43
2.0	4	7	50	90°	120°	2.43
2.5	4	7	50	90°	120°	2.43
3.0	4	12	50	90°	120°	2.43
4.0	4	16	50	90°	120°	2.43
5.0	5	20	50	90°	120°	4.26
6.0	6	20	50	90°	120°	4.26
8.0	8	25	60	90°	120°	7.70
10.0	10	30	75	90°	120°	11.76
12.0	12	30	75	90°	120°	16.82
14.0	14	35	80	90°	/	33.25
16.0	16	40	80	90°	/	40.56
18.0	18	40	80	90°	/	52.09
20.0	20	40	80	90°	/	58.20
4.0	4	16	100	90°	/	3.65
6.0	6	20	100	90°	/	7.10
8.0	8	25	100	90°	/	10.14
10.0	10	30	100	90°	/	15.41
12.0	12	30	100	90°	/	21.29
16.0	16	40	150	90°	/	64.43



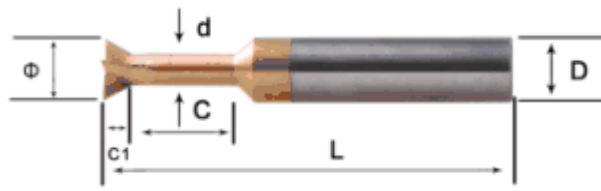
Standard Length Carbide Reamer with Spiral Flute

Cut Dia (mm)	Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Flute	Unit Price (USD)
1.0	15	1	50	4	2.23
1.1	15	1.1	50	4	2.23
1.2	15	1.2	50	4	2.23
1.3	15	1.3	50	4	2.23
1.4	15	1.4	50	4	2.23
1.5	15	1.5	50	4	2.23
1.6	15	1.6	50	4	2.23
1.7	15	1.7	50	4	2.23
1.8	15	1.8	50	4	2.23
1.9	15	1.9	50	4	2.23
2.0	15	2	50	4	2.23
2.5	20	2.5	50	4	2.63
3.0	20	3	50	4	2.63
3.5	25	3.5	50	4	3.04
4.0	25	4	50	4	3.04
4.5	25	4.5	50	4	4.26
5.0	30	5	60	4	4.26
6.0	30	6	60	6	5.68
7.0	30	7	60	6	7.30
8.0	35	8	70	6	9.94
9.0	40	9	80	6	13.78
10.0	40	10	80	6	15.21
11.0	40	11	80	6	19.27
12.0	40	12	80	6	20.88
13.0	60	13	100	6	30.82
14.0	60	12	100	6	35.48
16.0	60	16	100	6	42.58
18.0	60	18	100	6	64.89
20.0	60	20	100	6	70.97



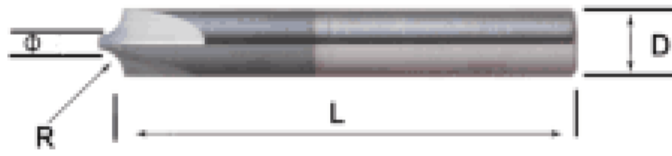
Carbide Center Drills

Cut Dia (mm)	Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Angle	Unit Price (USD)
0.5	1	3	50	60°	4.47
0.6	1	3	50	60°	4.47
0.8	1.2	3	50	60°	4.47
1.0	1.5	3	50	60°	4.47
1.2	1.3	3	50	60°	4.47
1.5	2	4	50	60°	5.07
1.5	2	6	50	60°	8.51
2.0	2.5	4	50	60°	5.07
2.0	2.5	6	50	60°	8.51
2.5	3	6	50	60°	8.51
3.0	3.5	6	50	60°	8.51
3.0	3.5	8	50	60°	12.78
4.0	5	8	50	60°	12.78
4.0	5	10	60	60°	19.67
5.0	6.5	10	60	60°	19.67



Carbide Dovetail Cutter

Cut Dia (mm)	Angle	Neck Dia (mm)	Neck Length (mm)	Cut Length (mm)	Shank Dia (mm)	Overall Length (mm)	Unit Price (USD)
3	45°	1.5	5	0.75	4	50	4.47
4	45°	2	6	1	4	50	4.47
6	45°	3	8	1.5	6	50	6.49
8	45°	4	10	2	8	50	9.94
10	45°	5	15	2.5	10	50	14.19
12	45°	6	15	3	12	50	21.90
3	60°	1.5	5	1.4	4	50	4.47
4	60°	2	6	1.7	4	50	4.47
6	60°	3	8	2.6	6	50	6.49
8	60°	4	10	3.4	8	50	9.94
10	60°	5	15	4.3	10	50	14.19
12	60°	6	15	5.2	12	50	21.90



Carbide Outer Cylinder Cutter

Radius (mm)	Shank Dia (mm)	End Dia (mm)	Overall Length (mm)	Flute	Unit Price (USD)	
					Uncoated	Coated
R0.3	3	2.4	50	2	4.47	4.66
R0.4	3	2.2	50	2	4.47	4.66
R0.5	3	2	50	2	4.47	4.66
R0.5	4	3	50	2	4.47	4.66
R0.75	4	2.5	50	2	4.47	4.66
R1.0	4	2	50	2	4.47	4.66
R1.5	6	3	50	2	6.69	7.10
R2.0	6	2	50	2	6.69	7.10
R1.5	6	3	50	4	6.69	7.10
R2.0	6	2	50	4	6.69	7.10
R2.5	8	3	60	4	11.35	12.17
R3.0	8	2	60	4	11.35	12.17
R4.0	10	2	75	4	17.23	18.05
R5.0	12	2	75	4	22.31	23.31
R6.0	16	4	75	4	38.52	39.95



Carbide T-Cutter

Cut Dia (mm)	Cut Length (mm)	Neck Dia (mm)	Neck Length (mm)	Shank Dia (mm)	Overall Length (mm)	Flute	Unit Price (USD)	
							Uncoated	Coated
4	0.5/0.8/1/1.5/2	2	8	4	50	4	4.47	5.07
6	0.5/0.8/1/1.5/2	3	10	6	50	4	6.49	7.51
8	1/1.5/2/2.5/3/4	4	12	8	50	4	9.94	11.35
10	1/1.5/2/2.5/3/4	5	15	10	60	4	14.19	15.82
12	1/1.5/2/2.5/3/4	6	15	12	60	4	21.90	23.93