

2018 GENERAL PURPOSE CATALOG



Premium Solid Carbide & Cobalt HSS End Mills, Drills, & Cutting Tools
www.melintool.com



COBALT & HSS END MILLS

[Back to Index](#)

2 & 3 Flute Cobalt & HSS End Mills



Page
76

CC End Mills - 2 Flute
Series: **A** (Metric pg: 81)



Page
79

CC End Mills - 2 Flute Radius
Series: **A-__-R**



Page
80

CC End Mills - 2 Flute - Metric/Inch
Series: **AP-__-M-__**



Page
82

CC Ball Nose End Mills - 2 Flute
Series: **A-__-B** (Metric pg: 84)



Page
83

CC Ball Nose End Mills - 2 Flute - Metric/Inch
Series: **AP-__-M-__-B**



Page
84

CC End Mills - 2 Flute - Extended Neck
Series: **AN**



Page
85

CC Ball Nose End Mills - 2 Flute - Extended Neck
Series: **AN-__-B**



Page
85

CC End Mills - 2 Flute - Keyway Tolerances
Series: **AK**



Page
86

CC End Mills - 3 Flute
Series: **E**



Page
87

CC End Mills - 3 Flute - Extended Neck
Series: **EN**



Page
88

CC Ball Nose End Mills - 3 Flute
Series: **E-__-B**

4 Flute Cobalt & HSS End Mills



Page
88

Micro CC End Mills - 4 Flute
Series: **C**



Page
89

CC End Mills - 4 and 6 Flute
Series: **CC** (Metric pg: 96)



Page
92

NCC End Mills - 4, 6, and 8 Flute
Series: **C** (Metric pg: 96)



Page
94

CC End Mills - 4 Flute - Radius
Series: **CC-__-R**



Page
95

CC End Mills - 4 Flute - Metric/Inch
Series: **CCP-__-M-__**



Page
97

CC End Mills - 4 Flute - Extended Neck
Series: **CCN**



Page
97

NCC End Mills - 4 Flute - Extended Neck
Series: **CN**



Page
98

CC Ball Nose End Mills - 4 Flute
Series: **CC-__-B** (Metric pg: 99)



Page
99

CC Ball Nose End Mills - 4 Flute -Metric/Inch
Series: **CCP-__-M-__-B**



Page
100

CC Ball Nose End Mills - 4 Flute -Extended Neck
Series: **CCN-__-B**

40° Helix Cobalt & HSS End Mills



Page
100

40° Helix CC For Aluminum - 2 Flute
Series: **AA**



Page
101

40° Helix Ball Nose CC For Aluminum - 2 Flute
Series: **AA-__-B**

Cobalt & HSS End Mills



Page
102

60° Helix CC End Mills - 3 Flute
Series: **E60**



Page
102

NCC Corner Rounding End Mill - 3 Flute
Series: **R**



Page
103

NCC Corner Rounding End Mill - 4 Flute
Series: **RC**



Page
104

Drill Point - 2 Flute - 60°, 82°, 90°, 100° & 120°
Series: **A-__-DP-__**



Page
106

Angle Double & Single End Mill - 2 Flute
Series: **AM**



Page
106

NC Spotting Drill 82°, 90°, & 120°
Series: **HSNC**

COBALT & HSS END MILLS

2 Flute Double End Mills



Page
107

DE Micro CC End Mills - 2 Flute
Series: **B**



Page
108

DE CC End Mills - 2 Flute
Series: **B**



Page
109

DE CC End Mills - 2 Flute - Left Hand Spiral/Cut
Series: **XB**



Page
109

DE CC End Mills - 2 Flute - Metric/Inch
Series: **B-__M__**



Page
110

DE Micro CC Ball Nose End Mills - 2 Flute
Series: **B-__-B**



Page
110

DE CC Ball Nose End Mills - 2 Flute
Series: **B-__-B**

3 Flute Double End Mills



Page
111

DE CC End Mills - 3 Flute
Series: **F**



Page
111

DE CC Ball Nose End Mills - 3 Flute
Series: **F-__-B**

4 Flute Double End Mills



Page
112

DE Micro CC End Mills - 4 Flute
Series: **D**



Page
113

DE CC End Mills - 4 Flute
Series: **DD**



Page
114

DE NCC End Mills - 4 Flute
Series: **D**



Page
114

DE CC End Mills - 4 Flute - Metric/Inch
Series: **DD-__M__**



Page
115

DE CC Ball Nose End Mills - 4 Flute
Series: **DD-__-B**



Page
115

DE CC End Mills - 4 Flute - Left Hand Spiral/Cut
Series: **XD**

CARBIDE DRILLS

General Purpose Carbide Drills



Page
116

Solid Style Drills
Series: **LDR**



Page
117

Jobber Length Drills
Series: **HDR**



Page
120

Stub Length Drills
Series: **IDR**



Page
124

Straight Flute Drills
Series: **JDR**

Combined Carbide Drills



Page
125

60° DE Combined Drills & Countersinks
Series: **KDR**



Page
125

60° DE Combined Drills & Countersinks - HSS
Series: **HSCD**

NC Spotting Drills



Page
126

NC Carbide Spotting Drills, 60°, 90°, & 120°
Series: **HDRNC**



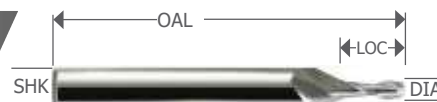
Page
127

NC HSSCo Spotting Drills, 82°, 90°, & 120°
Series: **HSNC**

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • CENTER CUTTING END MILLS



SERIES: A

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/32	3/16	3/32	1-1/2	std	M42	A-601	10002	40002
3/64	3/16	9/64	1-1/2	std	M42	A-601-1/2	10004	40004
1/16	3/16	3/16	1-1/2	std	M42	A-602	10006	40006
5/64	3/16	15/64	1-1/2	std	M42	A-602-1/2	10008	40008
3/32	3/16	9/32	1-1/2	std	M42	A-603	10010	40010
7/64	3/16	21/64	1-1/2	std	M42	A-603-1/2	10012	40012
1/8	3/16	3/8	1-1/2	std	M42	A-604	10014	40014
9/64	3/16	27/64	1-1/2	std	M42	A-604-1/2	10016	40016
5/32	3/16	7/16	1-1/2	std	M42	A-605	10018	40018
11/64	3/16	1/2	1-1/2	std	M42	A-605-1/2	10020	40020
3/16	3/16	1/2	1-1/2	std	M42	A-606	10022	40022
1/4	1/4	3/4	2-1/2	std	M42	A-808	10024	40024

If shank and mill diameters are the same, tolerance is +.0000/- .0025

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/32	3/8	5/16	2-1/4	std	M42	A-1203	10026	40026
1/8	3/8	3/16	2-1/8	stub	M42	AS-1204	10030	40030
1/8	3/8	3/8	2-5/16	std	M42	A-1204	10028	40028
1/8	3/8	1/2	2-3/8	med	M42	A-1204-M	12802	42802
1/8	3/8	3/4	2-5/8	long	M42	A-1204-L	12804	42804
5/32	3/8	3/16	2-1/16	stub	M42	AS-1205	10034	40034
5/32	3/8	7/16	2-5/16	std	M42	A-1205	10032	40032
5/32	3/8	5/8	2-1/2	med	M42	A-1205-M	12806	42806
5/32	3/8	3/4	2-5/8	long	M42	A-1205-L	12808	42808
3/16	3/8	3/16	2-1/16	stub	M42	AS-1206	10038	40038
3/16	3/8	7/16	2-5/16	std	M42	A-1206	10036	40036
3/16	3/8	5/8	2-1/2	med	M42	A-1206-M	12810	42810
3/16	3/8	3/4	2-5/8	long	M42	A-1206-L	10474	40474
3/16	3/8	1-1/4	3-1/8	xl	M42	A-1206-E	12812	42812
7/32	3/8	1/4	2-1/8	stub	M42	AS-1207	10042	40042
7/32	3/8	1/2	2-3/8	std	M42	A-1207	10040	40040
7/32	3/8	7/8	2-3/4	med	M42	A-1207-M	12814	42814
7/32	3/8	1-1/4	3-1/8	long	M42	A-1207-L	10476	40476
7/32	3/8	1-1/2	3-3/8	xl	M42	A-1207-E	12816	42816
1/4	3/8	1/4	2-1/16	stub	M42	AS-1208	10046	40046
1/4	3/8	1/2	2-5/16	std	M42	A-1208	10044	40044
1/4	3/8	7/8	2-3/4	med	M42	A-1208-M	12818	42818
1/4	3/8	1-1/4	3-1/16	long	M42	A-1208-L	10478	40478
1/4	3/8	1-3/4	3-9/16	xl	M42	A-1208-E	12820	42820
9/32	3/8	5/16	2-1/8	stub	M42	AS-1209	10050	40050
9/32	3/8	9/16	2-3/8	std	M42	A-1209	10048	40048
9/32	3/8	1	2-3/4	med	M42	A-1209-M	12822	42822
9/32	3/8	1-3/8	3-1/8	long	M42	A-1209-L	10480	40480
9/32	3/8	1-3/4	3-5/8	xl	M42	A-1209-E	12824	42824
19/64	3/8	9/16	2-5/16	std	M42	A-1209-1/2	14414	44414
5/16	3/8	5/16	2-1/16	stub	M42	AS-1210	10054	40054
5/16	3/8	9/16	2-5/16	std	M42	A-1210	10052	40052
5/16	3/8	1	2-3/4	med	M42	A-1210-M	12826	42826
5/16	3/8	1-3/8	3-1/8	long	M42	A-1210-L	10482	40482
5/16	3/8	2	3-3/4	xl	M42	A-1210-E	12828	42828
11/32	3/8	3/8	2-3/16	stub	M42	AS-1211	10058	40058
11/32	3/8	3/4	2-1/2	std	M42	A-1211	10056	40056
11/32	3/8	1	2-3/4	med	M42	A-1211-M	12830	42830
11/32	3/8	1-1/2	3-1/4	long	M42	A-1211-L	10484	40484
11/32	3/8	2	3-3/4	xl	M42	A-1211-E	12832	42832

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • CENTER CUTTING END MILLS

SERIES: A

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/8	3/8	3/8	2-1/8	stub	M42	AS-1212	10062	40062
3/8	3/8	9/16	2-5/16	std	M42	A-1212	10060	40060
3/8	3/8	1	2-3/4	med	M42	A-1212-M	10486	40486
3/8	3/8	1-1/2	3-1/4	long	M42	A-1212-L	10488	40488
3/8	3/8	2-1/2	4-1/4	xl	M42	A-1212-E	10490	40490
13/32	3/8	13/16	2-1/2	std	M42	A-1213	10064	40064
7/16	3/8	7/16	2-1/8	stub	M42	AS-1214	12794	42794
7/16	3/8	13/16	2-1/2	std	M42	A-1214	10066	40066
7/16	1/2	13/16	2-13/16	std	M42	A-1614	10070	40070
7/16	3/8	1-1/4	3-1/4	med	M42	A-1214-M	12834	42834
7/16	1/2	1-3/4	3-3/4	long	M42	A-1614-L	10492	40492
7/16	3/8	2-3/4	4-3/4	xl	M42	A-1214-E	12836	42836
15/32	1/2	1	3	std	M42	A-1615	10072	40072
1/2	3/8	1/2	2-3/16	stub	M42	AS-1216	12796	42796
1/2	3/8	13/16	2-1/2	std	M42	A-1216	10068	40068
1/2	1/2	1	3	std	M42	A-1616	10074	40074
1/2	1/2	1-1/2	3-1/2	med	M42	A-1616-M	10494	40494
1/2	1/2	2	4	long	M42	A-1616-L	10496	40496
1/2	1/2	3	5	xl	M42	A-1616-E	10498	40498
17/32	1/2	1-1/8	3-1/8	std	M42	A-1617	10076	40076
9/16	1/2	1-1/8	3-1/8	std	M42	A-1618	10078	40078
19/32	1/2	1-1/8	3-1/8	std	M42	A-1619	10080	40080
5/8	1/2	5/8	2-3/4	stub	M42	AS-1620	12798	42798
5/8	1/2	1-1/8	3-1/8	std	M42	A-1620	10082	40082
5/8	5/8	1-5/16	3-7/16	std	M42	A-2020	10108	40108
5/8	5/8	2	4-1/8	med	M42	A-2020-M	10500	40500
5/8	5/8	2-1/2	4-5/8	long	M42	A-2020-L	10502	40502
5/8	5/8	4	6-1/8	xl	M42	A-2020-E	12838	42838
21/32	1/2	1-5/16	3-5/16	std	M42	A-1621	10084	40084
11/16	1/2	1-5/16	3-5/16	std	M42	A-1622	10086	40086
11/16	5/8	1-5/16	3-7/16	std	M42	A-2022	10110	40110
23/32	1/2	1-5/16	3-5/16	std	M42	A-1623	10088	40088
3/4	1/2	5/8	2-5/8	stub	M42	AS-1624	16470	46470
3/4	1/2	1-5/16	3-5/16	std	M42	A-1624	10090	40090
3/4	5/8	1-5/16	3-7/16	std	M42	A-2024	10112	40112
3/4	3/4	3/4	3	stub	M42	AS-2424	12800	42800
3/4	3/4	1-5/16	3-9/16	std	M42	A-2424	10122	40122
3/4	3/4	2-1/4	4-1/2	med	M42	A-2424-M	10504	40504
3/4	3/4	3	5-1/4	long	M42	A-2424-L	10506	40506
3/4	3/4	4	6-1/4	xl	M42	A-2424-E	12840	42840
25/32	1/2	1-1/2	3-1/2	std	M42	A-1625	10092	40092
13/16	1/2	1-1/2	3-1/2	std	M42	A-1626	10094	40094
13/16	5/8	1-1/2	3-5/8	std	M42	A-2026	10114	40114
13/16	3/4	1-1/2	3-3/4	std	M42	A-2426	10124	40124
27/32	1/2	1-1/2	3-1/2	std	M42	A-1627	10096	40096
7/8	1/2	5/8	2-5/8	stub	M42	AS-1628	16471	46471
7/8	1/2	1-1/2	3-1/2	std	M42	A-1628	10098	40098
7/8	5/8	1-1/2	3-5/8	std	M42	A-2028	10116	40116
7/8	3/4	1-1/2	3-3/4	std	M42	A-2428	10126	40126
7/8	7/8	1-1/2	3-3/4	std	M42	A-2828	10152	40152
7/8	7/8	2-1/2	4-3/4	med	M42	A-2828-M	10508	40508
7/8	7/8	3-1/2	5-3/4	long	M42	A-2828-L	10510	40510
29/32	1/2	1-1/2	3-1/2	std	M42	A-1629	10100	40100
29/32	7/8	1-5/8	3-3/4	std	M42	A-2829	14418	44418
15/16	1/2	1-1/2	3-1/2	std	M42	A-1630	10102	40102
15/16	5/8	1-1/2	3-5/8	std	M42	A-2030	10118	40118
15/16	3/4	1-1/2	3-3/4	std	M42	A-2430	10128	40128
15/16	7/8	1-1/2	3-3/4	std	M42	A-2830	10154	40154

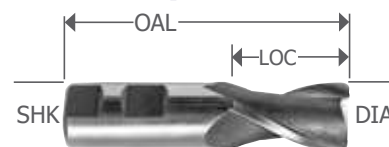
sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • CENTER CUTTING END MILLS

SERIES: A



DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
31/32	1/2	1-1/2	3-1/2	std	M42	A-1631	10104	40104
31/32	1	1-5/8	4-1/8	std	M42	A-3231	14417	44417
1	1/2	3/4	2-3/4	stub	M42	AS-1632	16472	46472
1	1/2	1-1/2	3-1/2	std	M42	A-1632	10106	40106
1	5/8	3/4	2-7/8	stub	M42	AS-2032	16474	46474
1	5/8	1-1/2	3-5/8	std	M42	A-2032	10120	40120
1	3/4	3/4	3	stub	M42	AS-2432	16476	46476
1	3/4	1-1/2	3-3/4	std	M42	A-2432	10130	40130
1	7/8	1-1/2	3-3/4	std	M42	A-2832	10156	40156
1	1	1-5/8	4-1/8	std	M42	A-3232	10162	40162
1	1	3	5-1/2	med	M42	A-3232-M	10512	40512
1	1	4	6-1/2	long	M42	A-3232-L	10514	40514
1-1/16	3/4	1-1/2	3-3/4	std	M42	A-2434	10132	40132
1-1/16	1	1-5/8	4-1/8	std	M42	A-3234	10164	40164
1-1/8	3/4	3/4	3	stub	M42	AS-2436	16477	46477
1-1/8	3/4	1-5/8	3-7/8	std	M42	A-2436	10134	40134
1-1/8	7/8	1-5/8	3-7/8	std	M42	A-2836	10158	40158
1-1/8	1	1-5/8	4-1/8	std	M42	A-3236	10166	40166
1-1/8	1	3	5-1/2	med	M42	A-3236-M	10516	40516
1-3/16	3/4	1-5/8	3-7/8	std	M42	A-2438	10136	40136
1-3/16	1	1-5/8	4-1/8	std	M42	A-3238	10168	40168
1-1/4	1/2	3/4	2-3/4	stub	M42	AS-1640	16473	46473
1-1/4	5/8	3/4	2-7/8	stub	M42	AS-2040	16475	46475
1-1/4	3/4	3/4	3	stub	M42	AS-2440	16478	46478
1-1/4	3/4	1-5/8	3-7/8	std	M42	A-2440	10138	40138
1-1/4	7/8	1-5/8	3-7/8	std	M42	A-2840	10160	40160
1-1/4	1	1-5/8	4-1/8	std	M42	A-3240	10170	40170
1-1/4	1-1/4	1-5/8	4-1/8	std	M42	A-4040	10180	40180
1-1/4	1	3	5-1/2	med	M42	A-3240-M	10518	40518
1-1/4	1-1/4	3	5-1/2	med	M42	A-4040-M	10522	40522
1-1/4	1-1/4	4	6-1/2	long	M42	A-4040-L	10524	40524
1-5/16	1	1-5/8	4-1/8	std	HSS	A-3242	10172	40172
1-3/8	3/4	3/4	3	stub	HSS	AS-2444	16479	46479
1-3/8	3/4	1-5/8	3-7/8	std	HSS	A-2444	10140	40140
1-3/8	1	1-5/8	4-1/8	std	HSS	A-3244	10174	40174
1-3/8	1	3	5-1/2	med	HSS	A-3244-M	10520	40520
1-7/16	1	1-5/8	4-1/8	std	HSS	A-3246	10176	40176
1-1/2	3/4	1-5/8	3-7/8	std	HSS	A-2448	10142	40142
1-1/2	1	1-5/8	4-1/8	std	HSS	A-3248	10178	40178
1-1/2	1-1/4	1-5/8	4-1/8	std	HSS	A-4048	10184	40184
1-1/2	3/4	3/4	3	stub	HSS	AS-2448	16480	46480
1-1/2	3/4	1-5/8	3-7/8	std	M42	AP-2448	15278	45278
1-1/2	1-1/4	1-5/8	4-1/8	std	M42	AP-4048	10792	40792
1-1/2	1-1/4	3	5-1/2	med	HSS	A-4048-M	10526	40526
1-1/2	1-1/4	4	6-1/2	long	HSS	A-4048-L	10528	40528
1-9/16	1-1/4	1-5/8	4-1/8	std	HSS	A-4050	10186	40186
1-5/8	3/4	1-5/8	3-7/8	std	HSS	A-2452	10144	40144
1-5/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4052	10188	40188
1-3/4	3/4	1-5/8	3-7/8	std	HSS	A-2456	10146	40146
1-3/4	1-1/4	1-5/8	4-1/8	std	HSS	A-4056	10190	40190
1-3/4	1-1/4	1-5/8	4-1/8	std	M42	AP-4056	10794	40794
1-3/4	1-1/4	3	5-1/2	med	HSS	A-4056-M	10532	40532
1-7/8	3/4	1-5/8	3-7/8	std	HSS	A-2460	10148	40148
1-7/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4060	10192	40192
1-7/8	1-1/4	3	5-1/2	med	HSS	A-4060-M	10536	40536
2	3/4	1-5/8	3-7/8	std	HSS	A-2464	10150	40150
2	1-1/4	1-5/8	4-1/8	std	HSS	A-4064	10194	40194

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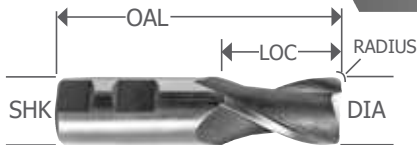
GENERAL PURPOSE COBALT & HSS END MILLS

SERIES: A

2 FLUTE • CENTER CUTTING END MILLS

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
2	3/4	1-5/8	3-7/8	std	M42	AP-2464	15286	45286
2	1-1/4	3	5-1/2	med	HSS	A-4064-M	10538	40538
2-1/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4068	10198	40198
2-1/4	1-1/4	1-5/8	4-1/8	std	HSS	A-4072	10200	40200
2-1/4	1-1/4	3	5-1/2	med	HSS	A-4072-M	10542	40542
2-1/2	1-1/4	1-5/8	4-1/8	std	HSS	A-4080	10202	40202
2-1/2	1-1/4	3	5-1/2	med	HSS	A-4080-M	10544	40544

2 FLUTE • CORNER RADIUS CENTER CUTTING END MILLS



HSSCo M42	2	30°	Bright TICN	+0.0015 -0.0000	Radius					HRC <48	P M K S N
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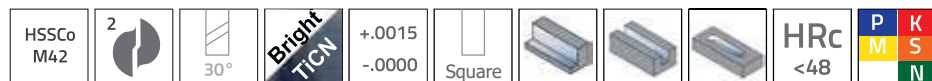
SERIES: A-__-R__

DIA	SHK	LOC	OAL	RADIUS	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/8	2-5/16	0.015	std	M42	A-1204-R015	15146	45146
3/16	3/8	7/16	2-5/16	0.020	std	M42	A-1206-R020	15148	45148
3/16	3/8	7/16	2-5/16	0.030	std	M42	A-1206-R030	15150	45150
1/4	3/8	1/2	2-5/16	0.020	std	M42	A-1208-R020	15152	45152
1/4	3/8	1/2	2-5/16	0.030	std	M42	A-1208-R030	15154	45154
1/4	3/8	1/2	2-5/16	0.045	std	M42	A-1208-R045	15156	45156
5/16	3/8	9/16	2-5/16	0.020	std	M42	A-1210-R020	15158	45158
5/16	3/8	9/16	2-5/16	0.030	std	M42	A-1210-R030	15160	45160
5/16	3/8	9/16	2-5/16	0.045	std	M42	A-1210-R045	15162	45162
3/8	3/8	9/16	2-5/16	0.020	std	M42	A-1212-R020	15164	45164
3/8	3/8	9/16	2-5/16	0.030	std	M42	A-1212-R030	15166	45166
3/8	3/8	9/16	2-5/16	0.045	std	M42	A-1212-R045	15168	45168
1/2	1/2	1	3	0.020	std	M42	A-1616-R020	15170	45170
1/2	1/2	1	3	0.030	std	M42	A-1616-R030	15172	45172
1/2	1/2	1	3	0.045	std	M42	A-1616-R045	15174	45174
1/2	1/2	1	3	0.060	std	M42	A-1616-R060	15176	45176
5/8	5/8	1-5/16	3-7/16	0.020	std	M42	A-2020-R020	15178	45178
5/8	5/8	1-5/16	3-7/16	0.030	std	M42	A-2020-R030	15180	45180
5/8	5/8	1-5/16	3-7/16	0.045	std	M42	A-2020-R045	15182	45182
5/8	5/8	1-5/16	3-7/16	0.060	std	M42	A-2020-R060	15184	45184
5/8	5/8	1-5/16	3-7/16	0.090	std	M42	A-2020-R090	15186	45186
3/4	3/4	1-5/16	3-9/16	0.020	std	M42	A-2424-R020	15188	45188
3/4	3/4	1-5/16	3-9/16	0.030	std	M42	A-2424-R030	15190	45190
3/4	3/4	1-5/16	3-9/16	0.045	std	M42	A-2424-R045	15192	45192
3/4	3/4	1-5/16	3-9/16	0.060	std	M42	A-2424-R060	15194	45194
3/4	3/4	1-5/16	3-9/16	0.090	std	M42	A-2424-R090	15196	45196
3/4	3/4	1-5/16	3-9/16	0.125	std	M42	A-2424-R125	15198	45198
1	1	1-5/8	4-1/8	0.020	std	M42	A-3232-R020	15200	45200
1	1	1-5/8	4-1/8	0.030	std	M42	A-3232-R030	15202	45202
1	1	1-5/8	4-1/8	0.045	std	M42	A-3232-R045	15204	45204
1	1	1-5/8	4-1/8	0.060	std	M42	A-3232-R060	15206	45206
1	1	1-5/8	4-1/8	0.090	std	M42	A-3232-R090	15208	45208
1	1	1-5/8	4-1/8	0.125	std	M42	A-3232-R125	15210	45210

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • CENTER CUTTING METRIC/INCH END MILLS



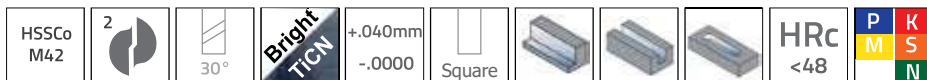
SERIES: AP- _M_

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3mm	3/8	3/8	2-5/16	std	M42	AP-12M3	10812	40812
3.5mm	3/8	7/16	2-5/16	std	M42	AP-12M3.5	11813	41813
4mm	3/8	7/16	2-5/16	std	M42	AP-12M4	10814	40814
4.5mm	3/8	7/16	2-5/16	std	M42	AP-12M4.5	10815	40815
5mm	3/8	1/2	2-5/16	std	M42	AP-12M5	10816	40816
5.5mm	3/8	1/2	2-3/8	std	M42	AP-12M5.5	10817	40817
6mm	3/8	1/2	2-5/16	std	M42	AP-12M6	10818	40818
6.5mm	3/8	9/16	2-3/8	std	M42	AP-12M6.5	10819	40819
7mm	3/8	9/16	2-3/8	std	M42	AP-12M7	10820	40820
7.5mm	3/8	9/16	2-5/16	std	M42	AP-12M7.5	10821	40821
8mm	3/8	9/16	2-5/16	std	M42	AP-12M8	10822	40822
8.5mm	3/8	9/16	2-5/16	std	M42	AP-12M8.5	10823	40823
9mm	3/8	9/16	2-5/16	std	M42	AP-12M9	10824	40824
9.5mm	3/8	9/16	2-5/16	std	M42	AP-12M9.5	10825	40825
10mm	3/8	13/16	2-1/2	std	M42	AP-12M10	10826	40826
10.5mm	3/8	13/16	2-1/2	std	M42	AP-12M10.5	10827	40827
11mm	3/8	13/16	2-1/2	std	M42	AP-12M11	10828	40828
11.5mm	3/8	13/16	2-1/2	std	M42	AP-12M11.5	10829	40829
12mm	3/8	13/16	2-1/2	std	M42	AP-12M12	10830	40830
12.5mm	1/2	1	3	std	M42	AP-16M12.5	10831	40831
13mm	1/2	1-1/8	3-1/8	std	M42	AP-16M13	10832	40832
13.5mm	1/2	1-1/8	3-1/8	std	M42	AP-16M13.5	10833	40833
14mm	1/2	1-1/8	3-1/8	std	M42	AP-16M14	10834	40834
14.5mm	1/2	1-1/8	3-1/8	std	M42	AP-16M14.5	10835	40835
15mm	1/2	1-1/8	3-1/8	std	M42	AP-16M15	10836	40836
16mm	5/8	1-5/16	3-7/16	std	M42	AP-20M16	10838	40838
17mm	5/8	1-5/16	3-7/16	std	M42	AP-20M17	10840	40840
18mm	5/8	1-5/16	3-7/16	std	M42	AP-20M18	10842	40842
19mm	3/4	1-5/8	3-7/8	std	M42	AP-24M19	10844	40844
20mm	3/4	1-1/2	3-3/4	std	M42	AP-24M20	10846	40846
21mm	3/4	1-1/2	3-3/4	std	M42	AP-24M21	10848	40848
22mm	3/4	1-1/2	3-3/4	std	M42	AP-24M22	10850	40850
23mm	7/8	1-7/8	4-1/8	std	M42	AP-28M23	10852	40852
24mm	1	2	4-1/2	std	M42	AP-32M24	10854	40854
25mm	1	2	4-1/2	std	M42	AP-32M25	10856	40856
28mm	1	2	4-1/2	std	M42	AP-32M28	10858	40858
32mm	1	2	4-1/2	std	M42	AP-32M32	10860	40860
35mm	1	2	4-1/2	std	M42	AP-32M35	10862	40862
36mm	1	2	4-1/2	std	M42	AP-32M36	10864	40864
40mm	1-1/4	2	4-1/2	std	M42	AP-40M40	10866	40866
45mm	1-1/4	2	4-1/2	std	M42	AP-40M45	10868	40868
50mm	1-1/4	2	4-1/2	std	M42	AP-40M50	10870	40870

GENERAL PURPOSE COBALT & HSS END MILLS



2 FLUTE • CENTER CUTTING END MILLS



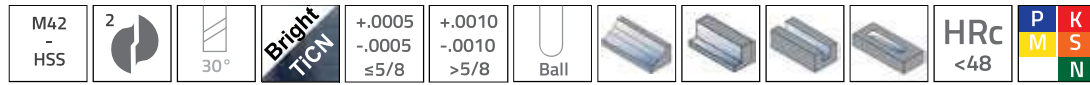
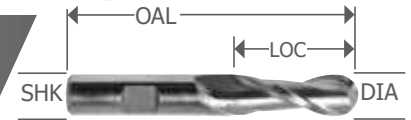
SERIES: A-M_M_M_

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
2mm	6mm	7mm	57mm	std	M42	A-M6M2	16339	46339
3mm	6mm	8mm	57mm	std	M42	A-M6M3	16340	46340
4mm	6mm	11mm	57mm	std	M42	A-M6M4	16341	46341
5mm	6mm	13mm	57mm	std	M42	A-M6M5	16342	46342
6mm	6mm	13mm	57mm	std	M42	A-M6M6	16343	46343
7mm	10mm	16mm	69mm	std	M42	A-M10M7	16344	46344
8mm	10mm	19mm	69mm	std	M42	A-M10M8	16345	46345
9mm	10mm	19mm	69mm	std	M42	A-M10M9	16346	46346
10mm	10mm	22mm	72mm	std	M42	A-M10M10	16347	46347
11mm	12mm	22mm	79mm	std	M42	A-M12M11	16348	46348
12mm	12mm	26mm	83mm	std	M42	A-M12M12	16349	46349
13mm	12mm	26mm	83mm	std	M42	A-M12M13	16350	46350
14mm	12mm	26mm	83mm	std	M42	A-M12M14	16351	46351
15mm	12mm	26mm	83mm	std	M42	A-M12M15	16352	46352
16mm	16mm	32mm	92mm	std	M42	A-M16M16	16353	46353
17mm	16mm	32mm	92mm	std	M42	A-M16M17	16354	46354
18mm	16mm	32mm	92mm	std	M42	A-M16M18	16355	46355
19mm	16mm	32mm	92mm	std	M42	A-M16M19	16356	46356
20mm	20mm	38mm	104mm	std	M42	A-M20M20	16357	46357
21mm	20mm	38mm	104mm	std	M42	A-M20M21	16358	46358
22mm	20mm	38mm	104mm	std	M42	A-M20M22	16359	46359
23mm	20mm	38mm	104mm	std	M42	A-M20M23	16360	46360
24mm	25mm	45mm	121mm	std	M42	A-M25M24	16361	46361
25mm	25mm	45mm	121mm	std	M42	A-M25M25	16362	46362
30mm	25mm	45mm	121mm	std	M42	A-M25M30	16363	46363
32mm	32mm	53mm	133mm	std	M42	A-M32M32	16364	46364

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • CENTER CUTTING BALL NOSE END MILL



SERIES: A-__-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/32	3/8	5/16	2-1/4	std	M42	A-1203-B	10350	40350
1/8	3/8	3/8	2-5/16	std	M42	A-1204-B	10352	40352
5/32	3/8	7/16	2-5/16	std	M42	A-1205-B	10354	40354
3/16	3/8	1/2	2-3/8	std	M42	A-1206-B	10356	40356
3/16	3/8	3/4	2-5/8	long	M42	A-1206-LB	10546	40546
7/32	3/8	9/16	2-3/8	std	M42	A-1207-B	10358	40358
7/32	3/8	1-1/4	3-1/8	long	M42	A-1207-LB	10548	40548
1/4	3/8	5/8	2-7/16	std	M42	A-1208-B	10360	40360
1/4	3/8	1-1/4	3-1/16	long	M42	A-1208-LB	10550	40550
9/32	3/8	9/16	2-3/8	std	M42	A-1209-B	10362	40362
9/32	3/8	1-3/8	3-1/8	long	M42	A-1209-LB	10552	40552
5/16	3/8	3/4	2-1/2	std	M42	A-1210-B	10364	40364
5/16	3/8	1-3/8	3-1/8	long	M42	A-1210-LB	10554	40554
11/32	3/8	3/4	2-1/2	std	M42	A-1211-B	10366	40366
11/32	3/8	1-1/2	3-1/4	long	M42	A-1211-LB	10556	40556
3/8	3/8	3/4	2-1/2	std	M42	A-1212-B	10368	40368
3/8	3/8	1	2-3/4	med	M42	A-1212-MB	10558	40558
3/8	3/8	1-1/2	3-1/4	long	M42	A-1212-LB	10560	40560
13/32	3/8	13/16	2-1/2	std	M42	A-1213-B	10370	40370
7/16	3/8	13/16	2-1/2	std	M42	A-1214-B	10372	40372
7/16	1/2	1	3	std	M42	A-1614-B	10376	40376
7/16	1/2	1-3/4	3-3/4	long	M42	A-1614-LB	10562	40562
15/32	1/2	1	3	std	M42	A-1615-B	10378	40378
1/2	3/8	13/16	2-1/2	std	M42	A-1216-B	10374	40374
1/2	1/2	1	3	std	M42	A-1616-B	10380	40380
1/2	1/2	1-1/2	3-1/2	med	M42	A-1616-MB	10564	40564
1/2	1/2	2	4	long	M42	A-1616-LB	10566	40566
17/32	1/2	1-1/8	3-1/8	std	M42	A-1617-B	10382	40382
9/16	1/2	1-1/8	3-1/8	std	M42	A-1618-B	10384	40384
19/32	1/2	1-1/8	3-1/8	std	M42	A-1619-B	10386	40386
5/8	1/2	1-1/8	3-1/8	std	M42	A-1620-B	10388	40388
5/8	5/8	1-3/8	3-1/2	std	M42	A-2020-B	10414	40414
5/8	5/8	2	4-1/8	med	M42	A-2020-MB	10568	40568
5/8	5/8	2-1/2	4-5/8	long	M42	A-2020-LB	10570	40570
21/32	1/2	1-5/16	3-5/16	std	M42	A-1621-B	10390	40390
11/16	1/2	1-5/16	3-5/16	std	M42	A-1622-B	10392	40392
11/16	5/8	1-5/16	3-7/16	std	M42	A-2022-B	10416	40416
23/32	1/2	1-5/16	3-5/16	std	M42	A-1623-B	10394	40394
3/4	1/2	1-5/16	3-5/16	std	M42	A-1624-B	10396	40396
3/4	5/8	1-5/16	3-7/16	std	M42	A-2024-B	10418	40418
3/4	3/4	1-5/8	3-7/8	std	M42	A-2424-B	10428	40428
3/4	3/4	2-1/4	4-1/2	med	M42	A-2424-MB	10572	40572
3/4	3/4	3	5-1/4	long	M42	A-2424-LB	10574	40574
25/32	1/2	1-1/2	3-1/2	std	M42	A-1625-B	10398	40398
13/16	1/2	1-1/2	3-1/2	std	M42	A-1626-B	10400	40400
13/16	5/8	1-1/2	3-5/8	std	M42	A-2026-B	10420	40420
27/32	1/2	1-1/2	3-1/2	std	M42	A-1627-B	10402	40402
7/8	1/2	1-1/2	3-1/2	std	M42	A-1628-B	10404	40404
7/8	3/4	2	4-1/4	std	M42	A-2428-B	10430	40430
7/8	7/8	2	4-1/4	std	M42	A-2828-B	10434	40434
29/32	1/2	1-1/2	3-1/2	std	M42	A-1629-B	10406	40406

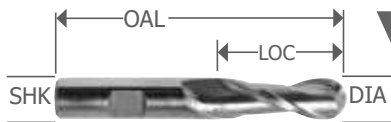
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GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • CENTER CUTTING BALL NOSE END MILL

SERIES: A-_-_-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
15/16	1/2	1-1/2	3-1/2	std	M42	A-1630-B	10408	40408
15/16	5/8	1-1/2	3-5/8	std	M42	A-2030-B	10424	40424
15/16	7/8	1-1/2	3-3/4	std	M42	A-2830-B	10436	40436
31/32	1/2	1-1/2	3-1/2	std	M42	A-1631-B	10410	40410
1	1/2	1-1/2	3-1/2	std	M42	A-1632-B	10412	40412
1	5/8	1-1/2	3-5/8	std	M42	A-2032-B	10426	40426
1	3/4	2-1/4	4-1/2	std	M42	A-2432-B	10432	40432
1	1	2-1/4	4-3/4	std	M42	A-3232-B	10444	40444
1	1	3	5-1/2	med	M42	A-3232-MB	10580	40580
1	1	4	6-1/2	long	M42	A-3232-LB	10582	40582
1-1/16	1	1-5/8	4-1/8	std	M42	A-3234-B	10446	40446
1-1/8	1	2-1/4	4-3/4	std	M42	A-3236-B	10448	40448
1-3/16	1	1-5/8	4-1/8	std	M42	A-3238-B	10450	40450
1-1/4	7/8	1-5/8	3-7/8	std	M42	A-2840-B	10442	40442
1-1/4	1	1-5/8	4-1/8	std	M42	A-3240-B	10452	40452
1-1/4	1-1/4	2-1/2	5	std	M42	A-4040-B	10462	40462
1-5/16	1	1-5/8	4-1/8	std	HSS	A-3242-B	10454	40454
1-3/8	1	1-5/8	4-1/8	std	HSS	A-3244-B	10456	40456
1-7/16	1	1-5/8	4-1/8	std	HSS	A-3246-B	10458	40458
1-1/2	1	1-5/8	4-1/8	std	HSS	A-3248-B	10460	40460
1-1/2	1-1/4	2-1/2	5	std	HSS	A-4048-B	10464	40464
1-5/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4052-B	10466	40466
1-3/4	1-1/4	1-5/8	4-1/8	std	HSS	A-4056-B	10468	40468
1-7/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4060-B	10470	40470
2	1-1/4	1-5/8	4-1/8	std	HSS	A-4064-B	10472	40472



2 FLUTE • CENTER CUTTING BALL NOSE END MILL



SERIES: AP-_M_-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3mm	3/8	5/16	2-5/16	std	M42	AP-12M3-B	12898	42898
4mm	3/8	7/16	2-5/16	std	M42	AP-12M4-B	12900	42900
5mm	3/8	1/2	2-5/16	std	M42	AP-12M5-B	12902	42902
6mm	3/8	1/2	2-5/16	std	M42	AP-12M6-B	12904	42904
7mm	3/8	9/16	2-3/8	std	M42	AP-12M7-B	12906	42906
8mm	3/8	9/16	2-5/16	std	M42	AP-12M8-B	12908	42908
9mm	3/8	9/16	2-5/16	std	M42	AP-12M9-B	12910	42910
10mm	3/8	13/16	2-1/2	std	M42	AP-12M10-B	12912	42912
11mm	3/8	13/16	2-1/2	std	M42	AP-12M11-B	12914	42914
12mm	3/8	13/16	2-1/2	std	M42	AP-12M12-B	12916	42916
13mm	1/2	1-1/8	3-1/8	std	M42	AP-16M13-B	12918	42918
14mm	1/2	1-1/8	3-1/8	std	M42	AP-16M14-B	12920	42920

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • CENTER CUTTING BALL NOSE END MILL



SERIES: A-M_M_-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
2mm	6mm	7mm	57mm	std	M42	A-M6M2-B	16411	46411
3mm	6mm	8mm	57mm	std	M42	A-M6M3-B	16412	46412
4mm	6mm	11mm	57mm	std	M42	A-M6M4-B	16413	46413
5mm	6mm	13mm	57mm	std	M42	A-M6M5-B	16414	46414
6mm	6mm	13mm	57mm	std	M42	A-M6M6-B	16415	46415
7mm	10mm	16mm	69mm	std	M42	A-M10M7-B	16416	46416
8mm	10mm	19mm	69mm	std	M42	A-M10M8-B	16417	46417
9mm	10mm	19mm	69mm	std	M42	A-M10M9-B	16418	46418
10mm	10mm	22mm	72mm	std	M42	A-M10M10-B	16419	46419
11mm	12mm	22mm	79mm	std	M42	A-M12M11-B	16420	46420
12mm	12mm	26mm	83mm	std	M42	A-M12M12-B	16421	46421
13mm	12mm	26mm	83mm	std	M42	A-M12M13-B	16422	46422
14mm	12mm	26mm	83mm	std	M42	A-M12M14-B	16423	46423
15mm	12mm	26mm	83mm	std	M42	A-M12M15-B	16424	46424
16mm	16mm	32mm	92mm	std	M42	A-M16M16-B	16425	46425
17mm	16mm	32mm	92mm	std	M42	A-M16M17-B	16426	46426
18mm	16mm	32mm	92mm	std	M42	A-M16M18-B	16427	46427
19mm	16mm	32mm	92mm	std	M42	A-M16M19-B	16428	46428
20mm	20mm	38mm	104mm	std	M42	A-M20M20-B	16429	46429
21mm	20mm	38mm	104mm	std	M42	A-M20M21-B	16430	46430
22mm	20mm	38mm	104mm	std	M42	A-M20M22-B	14631	44631
23mm	20mm	38mm	104mm	std	M42	A-M20M23-B	16432	46432
24mm	25mm	45mm	121mm	std	M42	A-M25M24-B	16433	46433
25mm	25mm	45mm	121mm	std	M42	A-M25M25-B	16434	46434
30mm	25mm	45mm	121mm	std	M42	A-M25M30-B	16435	46435
32mm	32mm	53mm	133mm	std	M42	A-M32M32-B	16436	46436

Note: under 20mm shank will not have flat

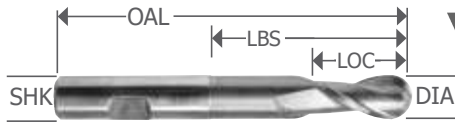
2 FLUTE • CENTER CUTTING EXTENDED NECK



SERIES: AN

DIA	SHK	LOC	LBS	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/8	1	2-9/16	std	M42	AN-1204	10734	40734
3/16	3/8	1/2	1-1/8	2-11/16	std	M42	AN-1206	10736	40736
1/4	3/8	5/8	1-1/2	3-1/16	std	M42	AN-1208	10738	40738
5/16	3/8	3/4	1-3/4	3-5/16	std	M42	AN-1210	10740	40740
3/8	3/8	3/4	1-3/4	3-5/16	std	M42	AN-1212	10742	40742
1/2	1/2	1	2-1/4	4	std	M42	AN-1616	10744	40744
5/8	5/8	1-3/8	2-3/4	4-5/8	std	M42	AN-2020	10746	40746
3/4	3/4	1-5/8	3-3/8	5-3/8	std	M42	AN-2424	10748	40748
1	1	2-1/2	5	7-1/4	std	M42	AN-3232	10752	40752

GENERAL PURPOSE COBALT & HSS END MILLS



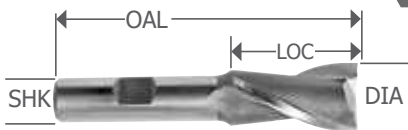
2 FLUTE • CENTER CUTTING EXTENDED NECK

HSSCo M42	2	30°	Bright TiCN	+0.0005 -0.0005 ≤5/8	+0.0010 -0.0010 >5/8	Ball					HRC <48	P M K S N
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SERIES: AN-__-B

DIA	SHK	LOC	LBS	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/8	1	2-9/16	std	M42	AN-1204-B	10756	40756
3/16	3/8	1/2	1-1/8	2-11/16	std	M42	AN-1206-B	10758	40758
1/4	3/8	5/8	1-1/2	3-1/16	std	M42	AN-1208-B	10760	40760
5/16	3/8	3/4	1-3/4	3-5/16	std	M42	AN-1210-B	10762	40762
3/8	3/8	3/4	1-3/4	3-5/16	std	M42	AN-1212-B	10764	40764
1/2	1/2	1	2-1/4	4	std	M42	AN-1616-B	10766	40766
3/4	3/4	1-5/8	3-3/8	5-3/8	std	M42	AN-2424-B	10770	40770
1	1	2-1/2	5	7-1/4	std	M42	AN-3232-B	10774	40774

2 FLUTE • CENTER CUTTING KEYWAY TOLERANCES



M42 - HSS	2	30°	Bright TiCN	+0.0000 -0.0015	Square					HRC <48	P M K S N
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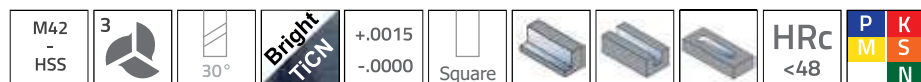
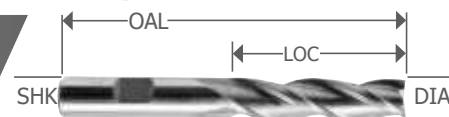
SERIES: AK

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/8	3/8	3/8	2-5/16	std	M42	AK-1204	10208
3/16	3/8	7/16	2-5/16	std	M42	AK-1206	10212
1/4	3/8	1/2	2-5/16	std	M42	AK-1208	10216
5/16	3/8	9/16	2-5/16	std	M42	AK-1210	10220
3/8	3/8	9/16	2-5/16	std	M42	AK-1212	10224
7/16	3/8	13/16	2-1/2	std	M42	AK-1214	10228
1/2	3/8	13/16	2-1/2	std	M42	AK-1216	10230
1/2	1/2	1	3	std	M42	AK-1616	10236
9/16	1/2	1-1/8	3-1/8	std	M42	AK-1618	10240
5/8	1/2	1-1/8	3-1/8	std	M42	AK-1620	10244
5/8	5/8	1-5/16	3-7/16	std	M42	AK-2020	10270
3/4	5/8	1-5/16	3-7/16	std	M42	AK-2024	10274
3/4	3/4	1-5/16	3-9/16	std	M42	AK-2424	10284
7/8	5/8	1-1/2	3-5/8	std	M42	AK-2028	10278
7/8	7/8	1-1/2	3-3/4	std	M42	AK-2828	10306
1	5/8	1-1/2	3-5/8	std	M42	AK-2032	10282
1	1	1-5/8	4-1/8	std	M42	AK-3232	10316
1-1/4	1	1-5/8	4-1/8	std	M42	AK-3240	10324
1-1/2	1-1/4	1-5/8	4-1/8	std	HSS	AK-4048	10336
2	1-1/4	1-5/8	4-1/8	std	HSS	AK-4064	10344

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

3 FLUTE • CENTER CUTTING END MILL



SERIES: E

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/32	3/8	5/16	2-1/4	std	M42	E-1203	12022	42022
1/8	3/8	3/8	2-5/16	std	M42	E-1204	12024	42024
5/32	3/8	7/16	2-5/16	std	M42	E-1205	12026	42026
3/16	3/8	1/2	2-3/8	std	M42	E-1206	12028	42028
3/16	3/8	3/4	2-5/8	long	M42	E-1206-L	12266	42266
7/32	3/8	1/2	2-3/8	std	M42	E-1207	12030	42030
7/32	3/8	1-1/4	3-1/8	long	M42	E-1207-L	12268	42268
1/4	3/8	5/8	2-7/16	std	M42	E-1208	12032	42032
1/4	3/8	1-1/4	3-1/16	long	M42	E-1208-L	12270	42270
9/32	3/8	11/16	2-1/2	std	M42	E-1209	12034	42034
9/32	3/8	1-3/8	3-1/8	long	M42	E-1209-L	12272	42272
5/16	3/8	3/4	2-1/2	std	M42	E-1210	12036	42036
5/16	3/8	1-3/8	3-1/8	long	M42	E-1210-L	12274	42274
11/32	3/8	3/4	2-1/2	std	M42	E-1211	12038	42038
11/32	3/8	1-1/2	3-1/4	long	M42	E-1211-L	12276	42276
3/8	3/8	3/4	2-1/2	std	M42	E-1212	12040	42040
3/8	3/8	1-1/2	3-1/4	long	M42	E-1212-L	12278	42278
13/32	3/8	1	2-11/16	std	M42	E-1213	12042	42042
7/16	3/8	1	2-11/16	std	M42	E-1214	12044	42044
7/16	1/2	1-3/4	3-3/4	long	M42	E-1614-L	12280	42280
15/32	1/2	1-1/4	3-1/4	std	M42	E-1615	12048	42048
1/2	3/8	1	2-11/16	std	M42	E-1216	12046	42046
1/2	1/2	1-1/4	3-1/4	std	M42	E-1616	12050	42050
1/2	1/2	2	4	long	M42	E-1616-L	12282	42282
17/32	1/2	1-3/8	3-3/8	std	M42	E-1617	12052	42052
9/16	1/2	1-3/8	3-3/8	std	M42	E-1618	12054	42054
19/32	1/2	1-3/8	3-3/8	std	M42	E-1619	12056	42056
5/8	1/2	1-3/8	3-3/8	std	M42	E-1620	12058	42058
5/8	5/8	1-5/8	3-3/4	std	M42	E-2020	12084	42084
5/8	5/8	2-1/2	4-5/8	long	M42	E-2020-L	12284	42284
21/32	1/2	1-5/8	3-5/8	std	M42	E-1621	12060	42060
11/16	1/2	1-5/8	3-5/8	std	M42	E-1622	12062	42062
23/32	1/2	1-5/8	3-5/8	std	M42	E-1623	12064	42064
3/4	1/2	1-5/8	3-5/8	std	M42	E-1624	12066	42066
3/4	5/8	1-5/8	3-3/4	std	M42	E-2024	12086	42086
3/4	3/4	1-5/8	3-7/8	std	M42	E-2424	12096	42096
3/4	3/4	3	5-1/4	long	M42	E-2424-L	12286	42286
25/32	1/2	1-5/8	3-5/8	std	M42	E-1625	12068	42068
13/16	1/2	1-5/8	3-5/8	std	M42	E-1626	12070	42070
13/16	5/8	1-7/8	4	std	M42	E-2026	12088	42088
13/16	3/4	1-7/8	4-1/8	std	M42	E-2426	12098	42098
27/32	1/2	1-5/8	3-5/8	std	M42	E-1627	12072	42072
7/8	1/2	1-5/8	3-5/8	std	M42	E-1628	12074	42074
7/8	5/8	1-7/8	4	std	M42	E-2028	12090	42090
7/8	3/4	1-7/8	4-1/8	std	M42	E-2428	12100	42100
7/8	7/8	1-7/8	4-1/8	std	M42	E-2828	12116	42116
15/16	1/2	1-7/8	3-7/8	std	M42	E-1630	12078	42078
15/16	5/8	1-7/8	4	std	M42	E-2030	12092	42092
1	1/2	1-7/8	3-7/8	std	M42	E-1632	12082	42082
1	3/4	1-7/8	4-1/8	std	M42	E-2432	12104	42104
1	1	2	4-1/2	std	M42	E-3232	12122	42122
1	1	3	5-1/2	med	M42	E-3232-M	12292	42292
1	1	4	6-1/2	long	M42	E-3232-L	12294	42294

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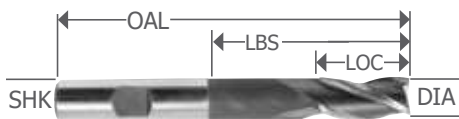
GENERAL PURPOSE COBALT & HSS END MILLS

3 FLUTE • CENTER CUTTING END MILL

SERIES: E

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1-1/16	3/4	2	4-1/4	std	M42	E-2434	12106	42106
1-1/16	1	2	4-1/2	std	M42	E-3234	12124	42124
1-1/8	3/4	2	4-1/4	std	M42	E-2436	12108	42108
1-1/8	1	2	4-1/2	std	M42	E-3236	12126	42126
1-3/16	3/4	2	4-1/4	std	M42	E-2438	12110	42110
1-3/16	1	2	4-1/2	std	M42	E-3238	12128	42128
1-1/4	3/4	2	4-1/4	std	M42	E-2440	12112	42112
1-1/4	1	2	4-1/2	std	M42	E-3240	12130	42130
1-1/4	1-1/4	4	6-1/2	long	M42	E-4040-L	12296	42296
1-5/16	1	2	4-1/2	std	HSS	E-3242	12132	42132
1-3/8	1	2	4-1/2	std	HSS	E-3244	12134	42134
1-1/2	1-1/4	2	4-1/2	std	HSS	E-4048	12144	42144
1-3/4	1-1/4	2	4-1/2	std	HSS	E-4056	11660	41660
2	1-1/4	2	4-1/2	std	HSS	E-4064	12150	42150

3 FLUTE • CENTER CUTTING EXTENDED NECK



HSSCo M42	3	 30°	Bright TiCN	+0.0015 -0.0000	 Square				HRc <48	<table><tr><td>P</td><td>K</td></tr><tr><td>M</td><td>S</td></tr><tr><td></td><td>N</td></tr></table>	P	K	M	S		N
P	K															
M	S															
	N															

SERIES: EN

DIA	SHK	LOC	LBS	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/8	1	2-9/16	std	M42	EN-1204	12362	42362
3/16	3/8	1/2	1-5/16	2-7/8	std	M42	EN-1206	12366	42366
1/4	3/8	5/8	1-1/2	3-1/16	std	M42	EN-1208	12370	42370
5/16	3/8	3/4	1-3/4	3-5/16	std	M42	EN-1210	12372	42372
3/8	3/8	3/4	1-3/4	3-5/16	std	M42	EN-1212	12374	42374
1/2	1/2	1	2-7/32	4-1/16	std	M42	EN-1616	12378	42378

Melin Distributes Across the Globe

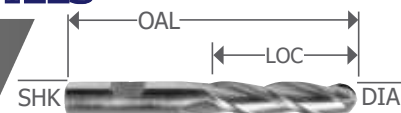
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GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

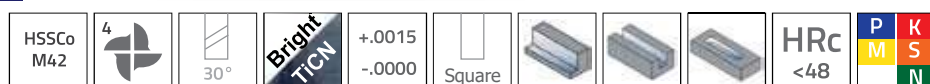
3 FLUTE • CENTER CUTTING BALL NOSE END MILLS



SERIES: E-__-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/8	2-5/16	std	M42	E-1204-B	12156	42156
3/16	3/8	1/2	2-3/8	std	M42	E-1206-B	12160	42160
3/16	3/8	3/4	2-5/8	long	M42	E-1206-LB	12306	42306
1/4	3/8	5/8	2-1/2	std	M42	E-1208-B	12164	42164
1/4	3/8	1-1/4	3-1/16	long	M42	E-1208-LB	12310	42310
5/16	3/8	3/4	2-1/2	std	M42	E-1210-B	12168	42168
5/16	3/8	1-3/8	3-1/8	long	M42	E-1210-LB	12314	42314
3/8	3/8	3/4	2-1/2	std	M42	E-1212-B	12172	42172
3/8	3/8	1-1/2	3-1/4	long	M42	E-1212-LB	12318	42318
7/16	1/2	1-3/4	3-3/4	long	M42	E-1614-LB	12320	42320
1/2	1/2	1-1/4	3-1/4	std	M42	E-1616-B	12182	42182
1/2	1/2	2	4	long	M42	E-1616-LB	12322	42322
17/32	1/2	1-3/8	3-3/8	std	M42	E-1617-B	12184	42184
9/16	1/2	1-3/8	3-3/8	std	M42	E-1618-B	12186	42186
5/8	5/8	1-5/8	3-3/4	std	M42	E-2020-B	12216	42216
3/4	1/2	1-5/8	3-5/8	std	M42	E-1624-B	12198	42198
3/4	3/4	3	5-1/4	long	M42	E-2424-LB	12326	42326
13/16	5/8	1-7/8	4	std	M42	E-2026-B	12220	42220
7/8	3/4	1-7/8	4-1/8	std	M42	E-2428-B	12230	42230
1	3/4	1-7/8	4-1/8	std	M42	E-2432-B	12232	42232

4 FLUTE • CENTER CUTTING END MILLS



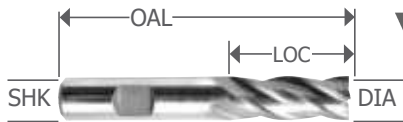
SERIES: C

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/16	3/16	3/16	1-1/2	std	M42	C-602	11136	41136
5/64	3/16	1/4	1-1/2	std	M42	C-602-1/2	11138	41138
3/32	3/16	9/32	1-1/2	std	M42	C-603	11140	41140
7/64	3/16	21/64	1-1/2	std	M42	C-603-1/2	11142	41142
1/8	3/16	3/8	1-1/2	std	M42	C-604	11144	41144
9/64	3/16	27/64	1-1/2	std	M42	C-604-1/2	11146	41146
5/32	3/16	7/16	1-1/2	std	M42	C-605	11148	41148
11/64	3/16	1/2	1-1/2	std	M42	C-605-1/2	11150	41150
3/16	3/16	1/2	1-1/2	std	M42	C-606*	11152	41152
1/4	1/4	5/8	2-1/2	std	M42	C-808*	11154	41154

* Tolerance is +.000/-0.0025

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS



MULTI FLUTE • CENTER CUTTING END MILLS



SERIES: CC

DIA	SHK	LOC	OAL	FLUTE	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/16	2-1/8	4	stub	M42	CCS-1204	11434	41434
1/8	3/8	3/8	2-5/16	4	std	M42	CC-1204	11432	41432
1/8	3/8	1/2	2-3/8	4	med	M42	CC-1204-M	12972	42972
1/8	3/8	3/4	2-5/8	4	long	M42	CC-1204-L	12974	42974
9/64	3/8	7/16	2-5/16	4	std	M42	CC-1204-1/2	11369	41369
5/32	3/8	3/16	2-1/8	4	stub	M42	CCS-1205	11438	41438
5/32	3/8	7/16	2-5/16	4	std	M42	CC-1205	11436	41436
5/32	3/8	5/8	2-1/2	4	med	M42	CC-1205-M	12976	42976
5/32	3/8	3/4	2-5/8	4	long	M42	CC-1205-L	12978	42978
11/64	3/8	1/2	2-3/8	4	std	M42	CC-1205-1/2	11389	41389
3/16	3/8	3/16	2-1/16	4	stub	M42	CCS-1206	11442	41442
3/16	3/8	1/2	2-3/8	4	std	M42	CC-1206	11440	41440
3/16	3/8	5/8	2-1/2	4	med	M42	CC-1206-M	12980	42980
3/16	3/8	3/4	2-5/8	4	long	M42	CC-1206-L	11582	41582
3/16	3/8	1-1/4	3-1/8	4	xl	M42	CC-1206-E	12962	42962
3/16	3/8	1-3/4	3-9/16	4	xxl	M42	CC-1206-EE	11273	41273
13/64	3/8	1/2	2-3/8	4	std	M42	CC-1206-1/2	11365	41365
7/32	3/8	1/4	2-3/16	4	stub	M42	CCS-1207	11446	41446
7/32	3/8	1/2	2-3/8	4	std	M42	CC-1207	11444	41444
7/32	3/8	7/8	2-3/4	4	med	M42	CC-1207-M	12982	42982
7/32	3/8	1-1/4	3-1/8	4	long	M42	CC-1207-L	11584	41584
7/32	3/8	1-1/2	3-5/16	4	xl	M42	CC-1207-E	12964	42964
7/32	3/8	1-3/4	3-9/16	4	xxl	M42	CC-1207-EE	11339	41339
15/64	3/8	5/8	2-7/16	4	std	M42	CC-1207-1/2	11337	41337
1/4	3/8	1/4	2-1/8	4	stub	M42	CCS-1208	11450	41450
1/4	3/8	5/8	2-7/16	4	std	M42	CC-1208	11448	41448
1/4	3/8	7/8	2-11/16	4	med	M42	CC-1208-M	11588	41588
1/4	3/8	1-1/4	3-1/16	4	long	M42	CC-1208-L	11586	41586
1/4	3/8	1-3/4	3-9/16	4	xl	M42	CC-1208-E	11536	41536
1/4	3/8	2-1/4	4-1/8	4	xxl	M42	CC-1208-EE	11538	41538
17/64	3/8	11/16	2-1/2	4	std	M42	CC-1208-1/2	11207	41207
9/32	3/8	5/16	2-1/8	4	stub	M42	CCS-1209	11454	41454
9/32	3/8	11/16	2-1/2	4	std	M42	CC-1209	11452	41452
9/32	3/8	1	2-3/4	4	med	M42	CC-1209-M	12984	42984
9/32	3/8	1-3/8	3-1/8	4	long	M42	CC-1209-L	11590	41590
9/32	3/8	1-3/4	3-1/2	4	xl	M42	CC-1209-E	12966	42966
19/64	3/8	3/4	2-1/2	4	std	M42	CC-1209-1/2	11390	41390
5/16	3/8	5/16	2-1/16	4	stub	M42	CCS-1210	11458	41458
5/16	3/8	3/4	2-1/2	4	std	M42	CC-1210	11456	41456
5/16	3/8	1	2-3/4	4	med	M42	CC-1210-M	12986	42986
5/16	3/8	1-3/8	3-1/8	4	long	M42	CC-1210-L	11592	41592
5/16	3/8	2	3-3/4	4	xl	M42	CC-1210-E	11540	41540
21/64	3/8	3/4	2-1/2	4	std	M42	CC-1210-1/2	11367	41367
11/32	3/8	3/8	2-1/8	4	stub	M42	CCS-1211	11462	41462
11/32	3/8	3/4	2-1/2	4	std	M42	CC-1211	11460	41460
11/32	3/8	1	2-3/4	4	med	M42	CC-1211-M	12988	42988
11/32	3/8	1-1/2	3-1/4	4	long	M42	CC-1211-L	11594	41594
11/32	3/8	2-1/2	4-1/4	4	xl	M42	CC-1211-E	12968	42968
23/64	3/8	3/4	2-1/2	4	std	M42	CC-1211-1/2	11340	41340
3/8	3/8	3/8	2-1/8	4	stub	M42	CCS-1212	11466	41466
3/8	3/8	3/4	2-1/2	4	std	M42	CC-1212	11464	41464
3/8	3/8	1	2-3/4	4	med	M42	CC-1212-M	12990	42990
3/8	3/8	1-1/2	3-1/4	4	long	M42	CC-1212-L	11596	41596
3/8	3/8	2-1/2	4-1/4	4	xl	M42	CC-1212-E	11542	41542

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

MULTI FLUTE • CENTER CUTTING END MILL

SERIES: CC



DIA	SHK	LOC	OAL	FLUTE	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
25/64	3/8	1	2-11/16	4	std	M42	CC-1212-1/2	11311	41311
13/32	3/8	1	2-11/16	4	std	M42	CC-1213	11174	41174
27/64	3/8	1	2-11/16	4	std	M42	CC-1213-1/2	11335	41335
7/16	3/8	9/16	2-1/4	4	stub	M42	CCS-1214	12956	42956
7/16	3/8	1	2-11/16	4	std	M42	CC-1214	11468	41468
7/16	3/8	1-3/4	3-3/4	4	long	M42	CC-1214-L	11338	41338
7/16	1/2	1-1/4	3-1/4	4	med	M42	CC-1614-M	12992	42992
7/16	1/2	1-3/4	3-3/4	4	long	M42	CC-1614-L	12994	42994
7/16	1/2	2-3/4	4-3/4	4	xl	M42	CC-1614-E	12970	42970
29/64	3/8	1	2-11/16	4	std	M42	CC-1214-1/2	14419	44419
15/32	3/8	1	2-11/16	4	std	M42	CC-1215	10310	40310
15/32	1/2	1-1/4	3-1/4	4	std	M42	CC-1615	11180	41180
31/64	1/2	1-1/4	3-1/4	4	std	M42	CC-1615-1/2	11363	41363
1/2	1/2	1/2	2-1/2	4	stub	M42	CCS-1616	12957	42957
1/2	3/8	1	2-11/16	4	std	M42	CC-1216	11470	41470
1/2	1/2	1-1/4	3-1/4	4	std	M42	CC-1616	11472	41472
1/2	1/2	1-1/4	3-1/4	6	std	M42	CC-1616-A	15050	45050
1/2	1/2	1-5/8	3-5/8	4	med	M42	CC-1616-M	12996	42996
1/2	1/2	2	4	4	long	M42	CC-1616-L	11598	41598
1/2	1/2	3	5	4	xl	M42	CC-1616-E	11544	41544
1/2	1/2	4	6	4	xxl	M42	CC-1616-EE	11344	41344
33/64	1/2	1-1/4	3-1/4	4	std	M42	CC-1616-1/2	12540	42540
17/32	1/2	1-3/8	3-3/8	4	std	M42	CC-1617	11184	41184
9/16	1/2	1-3/8	3-3/8	4	std	M42	CC-1618	11474	41474
9/16	1/2	2-1/2	4-1/2	4	long	M42	CC-1618-L	11392	41392
9/16	1/2	3-1/2	5-1/2	4	xl	M42	CC-1618-E	11346	41346
19/32	1/2	1-3/8	3-3/8	4	std	M42	CC-1619	11188	41188
5/8	5/8	5/8	2-3/4	4	stub	M42	CCS-2020	12958	42958
5/8	1/2	1-3/8	3-3/8	4	std	M42	CC-1620	11190	41190
5/8	5/8	1-5/8	3-3/4	4	std	M42	CC-2020	11476	41476
5/8	5/8	1-5/8	3-3/4	6	std	M42	CC-2020-A	15054	45054
5/8	5/8	2	4-1/8	4	med	M42	CC-2020-M	12998	42998
5/8	5/8	2-1/2	4-5/8	4	long	M42	CC-2020-L	11600	41600
5/8	5/8	4	6-1/8	4	xl	M42	CC-2020-E	11546	41546
5/8	5/8	5	7-1/8	4	xxl	M42	CC-2020-EE	11548	41548
41/64	5/8	1-5/8	3-3/4	4	std	M42	CC-2020-1/2	14411	44411
21/32	5/8	1-5/8	3-3/4	4	std	M42	CC-2021	14412	44412
11/16	1/2	1-5/8	3-5/8	4	std	M42	CC-1622	11355	41355
11/16	5/8	1-5/8	3-3/4	4	std	M42	CC-2022	11478	41478
23/32	3/4	1-5/8	3-7/8	4	std	M42	CC-2423	14409	44409
3/4	1/2	1-5/8	3-5/8	4	std	M42	CC-1624	11201	41201
3/4	1/2	3	5	4	std	M42	CC-1624-L	14410	44410
3/4	3/4	3/4	3	4	stub	M42	CCS-2424	12960	42960
3/4	5/8	1-5/8	3-3/4	4	std	M42	CC-2024	15058	45058
3/4	3/4	1-5/8	3-7/8	4	std	M42	CC-2424	11480	41480
3/4	3/4	1-5/8	3-7/8	6	std	M42	CC-2424-A	15062	45062
3/4	3/4	2-1/4	4-1/2	4	med	M42	CC-2424-M	13000	43000
3/4	3/4	3	5-1/4	4	long	M42	CC-2424-L	11602	41602
3/4	3/4	3	5-1/4	6	long	M42	CC-2424-LA	11383	41383
3/4	3/4	4	6-1/4	4	xl	M42	CC-2424-E	11550	41550
3/4	3/4	4	6-1/4	6	xl	M42	CC-2424-EA	10805	40805
3/4	3/4	6	8-1/4	4	xxl	M42	CC-2424-EE	11552	41552
49/64	3/4	1-7/8	4-1/8	4	std	M42	CC-2424-1/2	12541	42541
25/32	3/4	1-7/8	4-1/8	4	std	M42	CC-2425	14413	44413
13/16	3/4	1-7/8	4-1/8	4	std	M42	CC-2426	11482	41482

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

MULTI FLUTE • CENTER CUTTING END MILL

SERIES: CC

DIA	SHK	LOC	OAL	FLUTE	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
27/32	7/8	1-7/8	4-1/8	4	std	M42	CC-2827	12544	42544
7/8	1/2	1-5/8	3-5/8	4	std	M42	CC-1628	15854	45854
7/8	3/4	1-7/8	4-1/8	4	std	M42	CC-2428	15066	45066
7/8	7/8	1-7/8	4-1/8	4	std	M42	CC-2828	11484	41484
7/8	7/8	1-7/8	4-1/8	6	std	M42	CC-2828-A	15096	45096
7/8	7/8	3-1/2	5-3/4	4	long	M42	CC-2828-L	11604	41604
7/8	7/8	5	7-1/4	4	xl	M42	CC-2828-E	11554	41554
29/32	7/8	1-7/8	4-1/8	4	std	M42	CC-2829	14421	44421
15/16	3/4	1-7/8	4-1/8	4	std	M42	CC-2430	15068	45068
15/16	7/8	1-7/8	4-1/8	4	std	M42	CC-2830	11486	41486
1	5/8	1-7/8	4	4	std	M42	CC-2032	15060	45060
1	3/4	1-7/8	4-1/8	4	std	M42	CC-2432	15070	45070
1	1/2	1-7/8	3-7/8	4	std	M42	CC-1632	15856	45856
1	1	2	4-1/2	4	std	M42	CC-3232	11488	41488
1	1	2	4-1/2	6	std	M42	CC-3232-A	15098	45098
1	1	3	5-1/2	4	med	M42	CC-3232-M	11608	41608
1	1	4	6-1/2	4	long	M42	CC-3232-L	11606	41606
1	1	4	6-1/2	6	long	M42	CC-3232-LA	11385	41385
1	1	6	8-1/2	4	xl	M42	CC-3232-E	11556	41556
1	1	8	10-1/2	4	xxl	M42	CC-3232-EE	11558	41558
1-1/16	3/4	1-5/8	3-7/8	6	std	M42	CC-2434	15072	45072
1-1/8	3/4	1-5/8	3-7/8	6	std	M42	CC-2436	15074	45074
1-1/8	1	2	4-1/2	4	std	M42	CC-3236	11490	41490
1-3/16	3/4	1-5/8	3-7/8	6	std	M42	CC-2438	15076	45076
1-1/4	3/4	1-5/8	3-7/8	6	std	M42	CC-2440	15078	45078
1-1/4	1	2	4-1/2	6	std	M42	CC-3240	15102	45102
1-1/4	1-1/4	2	4-1/2	4	std	M42	CC-4040	11492	41492
1-1/4	1-1/4	2	4-1/2	6	std	M42	CC-4040-A	11662	41662
1-1/4	1-1/4	4	6-1/2	4	long	M42	CC-4040-L	11610	41610
1-1/4	1-1/4	4	6-1/2	6	long	M42	CC-4040-LA	11386	41386
1-1/4	1-1/4	6	8-1/2	4	xl	M42	CC-4040-E	11560	41560
1-1/4	1-1/4	6	8-1/2	6	xl	M42	CC-4040-EA	11230	41230
1-5/16	3/4	2	4-1/4	6	std	M42	CCP-2442	15080	45080
1-3/8	3/4	2	4-1/4	6	std	M42	CCP-2444	15082	45082
1-7/16	3/4	2	4-1/4	6	std	M42	CCP-2446	15084	45084
1-1/2	3/4	2	4-1/4	6	std	M42	CCP-2448	15086	45086
1-1/2	1	2	4-1/2	6	std	M42	CCP-3248	15106	45106
1-1/2	1	4	6-1/2	4	long	HSS	CC-3248-L	11271	41271
1-1/2	1-1/4	2	4-1/2	4	std	HSS	CC-4048	11494	41494
1-1/2	1-1/4	2	4-1/2	4	std	M42	CCP-4048	11664	41664
1-1/2	1-1/4	2	4-1/2	6	std	HSS	CC-4048-A	11269	41269
1-1/2	1-1/4	2	4-1/2	6	std	M42	CCP-4048-A	11666	41666
1-1/2	1-1/4	4	6-1/2	4	long	HSS	CC-4048-L	11612	41612
1-1/2	1-1/4	8	10-1/2	4	xl	M42	CCP-4048-E	11698	41698
1-5/8	3/4	2	4-1/4	6	std	M42	CCP-2452	15088	45088
1-5/8	1-1/4	2	4-1/2	6	std	M42	CCP-4052	11673	41673
1-3/4	3/4	2	4-1/4	6	std	M42	CCP-2456	15090	45090
1-3/4	1-1/4	2	4-1/2	6	std	M42	CCP-4056	15108	45108
1-7/8	3/4	2	4-1/4	6	std	M42	CCP-2460	15092	45092
2	3/4	2	4-1/4	6	std	M42	CCP-2464	15094	45094
2	1-1/4	2	4-1/2	4	std	M42	CCP-4064	11668	41668
2	1-1/4	2	4-1/2	6	std	M42	CCP-4064-A	11670	41670
2	1-1/4	4	6-1/2	4	long	M42	CCP-4064-L	11712	41712

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

MULTI FLUTE • Non-CENTER CUTTING END MILL



SERIES: C

DIA	SHK	LOC	OAL	FLUTE	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
21/32	1/2	1-5/8	3-5/8	4	std	M42	C-1621	11192	41192
11/16	1/2	1-5/8	3-5/8	4	std	M42	C-1622	11194	41194
11/16	5/8	1-5/8	3-3/4	4	std	M42	C-2022	11218	41218
23/32	1/2	1-5/8	3-5/8	4	std	M42	C-1623	11196	41196
3/4	1/2	5/8	2-5/8	4	stub	M42	CS-1624	16481	46481
3/4	1/2	5/8	2-5/8	6	stub	M42	CS-1624-A	16482	46482
3/4	1/2	1-5/8	3-5/8	4	std	M42	C-1624	11198	41198
3/4	5/8	1-5/8	3-3/4	4	std	M42	C-2024	11220	41220
3/4	3/4	1-1/2	3-7/8	6	std	M42	C-2424-A	16491	46491
3/4	3/4	1-5/8	3-7/8	4	std	M42	C-2424	11238	41238
3/4	3/4	3	5-1/4	4	long	M42	C-2424-L	11396	41396
3/4	3/4	4	6-1/4	4	xl	M42	C-2424-E	11352	41352
3/4	3/4	6	8-1/4	4	xxl	M42	C-2424-EE	11354	41354
25/32	1/2	1-5/8	3-5/8	4	std	M42	C-1625	11200	41200
13/16	1/2	1-5/8	3-5/8	4	std	M42	C-1626	11202	41202
13/16	5/8	1-7/8	4	4	std	M42	C-2026	11222	41222
13/16	5/8	1-7/8	4	6	std	M42	C-2026-A	11224	41224
13/16	3/4	1-7/8	4-1/8	4	std	M42	C-2426	11240	41240
27/32	1/2	1-5/8	3-5/8	4	std	M42	C-1627	11204	41204
7/8	1/2	5/8	2-5/8	4	stub	M42	CS-1628	16483	46483
7/8	1/2	5/8	2-5/8	6	stub	M42	CS-1628-A	16484	46484
7/8	1/2	1-5/8	3-5/8	4	std	M42	C-1628	11206	41206
7/8	5/8	1-7/8	4	4	std	M42	C-2028	11226	41226
7/8	5/8	1-7/8	4	6	std	M42	C-2028-A	11228	41228
7/8	3/4	1-7/8	4-1/8	4	std	M42	C-2428	11242	41242
7/8	7/8	1-7/8	4-1/8	4	std	M42	C-2828	11268	41268
7/8	7/8	3-1/2	5-3/4	4	long	M42	C-2828-L	11398	41398
7/8	7/8	5	7-1/4	4	xl	M42	C-2828-E	11356	41356
29/32	1/2	1-7/8	3-7/8	4	std	M42	C-1629	11208	41208
15/16	1/2	1-7/8	3-7/8	4	std	M42	C-1630	11210	41210
15/16	5/8	1-7/8	4	6	std	M42	C-2030-A	11232	41232
15/16	3/4	1-7/8	4-1/8	4	std	M42	C-2430	11244	41244
31/32	1/2	1-7/8	3-7/8	4	std	M42	C-1631	11212	41212
1	1/2	3/4	2-3/4	4	stub	M42	CS-1632	16485	46485
1	1/2	3/4	2-3/4	8	stub	M42	CS-1632-A8	16486	46486
1	1/2	1-7/8	3-7/8	4	std	M42	C-1632	11214	41214
1	5/8	3/4	2-7/8	8	stub	M42	CS-2032-A8	16487	46487
1	5/8	1-7/8	4	4	std	M42	C-2032	11234	41234
1	5/8	1-7/8	4	6	std	M42	C-2032-A	11236	41236
1	3/4	3/4	3	4	stub	M42	CS-2432	16492	46492
1	3/4	3/4	3	8	stub	M42	CS-2432-A8	16493	46493
1	3/4	1-1/2	3-3/4	8	std	M42	C-2432-A8	16494	46494
1	3/4	1-7/8	4-1/8	4	std	M42	C-2432	11246	41246
1	7/8	1-7/8	4-1/8	4	std	M42	C-2832	11272	41272
1	1	2	4-1/2	4	std	M42	C-3232	11278	41278
1	1	3	5-1/2	4	med	M42	C-3232-M	11400	41400
1	1	4	6-1/2	4	long	M42	C-3232-L	11402	41402
1	1	6	8-1/2	4	xl	M42	C-3232-E	11358	41358
1	1	8	10-1/2	4	xxl	M42	C-3232-EE	11360	41360
1-1/16	3/4	2	4-1/4	6	std	M42	C-2434	11248	41248
1-1/16	1	2	4-1/2	6	std	M42	C-3234	11280	41280

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

SERIES: C

MULTI FLUTE • Non-CENTER CUTTING END MILL

DIA	SHK	LOC	OAL	FLUTE	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1-1/8	5/8	3/4	2-7/8	8	stub	M42	CS-2036-A8	16488	46488
1-1/8	3/4	3/4	3	6	stub	M42	CS-2436-A	16495	46495
1-1/8	3/4	3/4	3	8	stub	M42	CS-2436-A8	16497	46497
1-1/8	3/4	1-1/2	3-3/4	6	std	M42	C-2436-A	16496	46496
1-1/8	3/4	1-1/2	3-3/4	8	std	M42	C-2436-A8	16498	46498
1-1/8	3/4	2	4-1/4	6	std	M42	C-2436	11250	41250
1-1/8	1	2	4-1/2	6	std	M42	C-3236	11282	41282
1-1/8	1	4	6-1/2	6	long	M42	C-3236-L	11404	41404
1-3/16	3/4	2	4-1/4	6	std	M42	C-2438	11252	41252
1-3/16	1	2	4-1/2	6	std	M42	C-3238	11284	41284
1-1/4	5/8	3/4	2-7/8	6	stub	M42	CS-2040-A	16489	46489
1-1/4	3/4	3/4	3	6	stub	M42	CS-2440-A	16499	46499
1-1/4	3/4	1-1/2	3-3/4	6	std	M42	C-2440-A	16500	46500
1-1/4	3/4	1-1/2	3-3/4	8	std	M42	C-2440-A8	16501	46501
1-1/4	3/4	2	4-1/4	6	std	M42	C-2440	11254	41254
1-1/4	1	2	4-1/2	6	std	M42	C-3240	11286	41286
1-1/4	1-1/4	2	4-1/2	6	std	M42	C-4040	11296	41296
1-1/4	1-1/4	3	5-1/2	4	med	M42	C-4040-M	11412	41412
1-1/4	1	4	6-1/2	6	long	M42	C-3240-L	11406	41406
1-1/4	1-1/4	4	6-1/2	6	long	M42	C-4040-L	11414	41414
1-1/4	1-1/4	6	8-1/2	6	xl	M42	C-4040-E	11362	41362
1-5/16	1	2	4-1/2	6	std	HSS	C-3242	11288	41288
1-3/8	5/8	3/4	2-7/8	6	stub	HSS	CS-2044-A	16490	46490
1-3/8	3/4	3/4	3	6	stub	HSS	CS-2444-A	16502	46502
1-3/8	3/4	1-1/2	3-7/8	6	std	HSS	C-2444-A	16503	46503
1-3/8	3/4	2	4-1/4	6	std	HSS	C-2444	11256	41256
1-3/8	1	2	4-1/2	6	std	HSS	C-3244	11290	41290
1-3/8	1-1/4	2	4-1/2	6	std	HSS	C-4044	11298	41298
1-3/8	1	4	6-1/2	6	long	HSS	C-3244-L	11408	41408
1-7/16	1	2	4-1/2	6	std	HSS	C-3246	11292	41292
1-1/2	3/4	3/4	3	6	stub	HSS	CS-2448-A	16504	46504
1-1/2	3/4	1-1/2	3-3/4	6	std	HSS	C-2448-A	16505	46505
1-1/2	3/4	2	4-1/4	6	std	HSS	C-2448	11258	41258
1-1/2	3/4	2	4-1/4	8	std	HSS	C-2448-A8	16506	46506
1-1/2	1	2	4-1/2	6	std	HSS	C-3248	11294	41294
1-1/2	1	4	6-1/2	6	long	HSS	C-3248-L	11270	41270
1-1/2	1-1/4	2	4-1/2	6	std	HSS	C-4048	11300	41300
1-1/2	1-1/4	2	4-1/2	6	std	M42	CP-4048	15046	45046
1-1/2	1-1/4	4	6-1/2	6	long	HSS	C-4048-L	11418	41418
1-1/2	1-1/4	8	10-1/2	6	xl	HSS	C-4048-E	11364	41364
1-9/16	1-1/4	2	4-1/2	6	std	HSS	C-4050	11302	41302
1-5/8	3/4	2	4-1/4	6	std	HSS	C-2452	11260	41260
1-5/8	1-1/4	2	4-1/2	6	std	HSS	C-4052	11304	41304
1-3/4	3/4	1-1/2	3-3/4	6	std	HSS	C-2456-A	16507	46507
1-3/4	3/4	2	4-1/4	6	std	HSS	C-2456	11262	41262
1-3/4	1-1/4	2	4-1/2	6	std	HSS	C-4056	10978	40978
1-3/4	1-1/4	4	6-1/2	6	long	HSS	C-4056-L	11420	41420
1-3/4	1-1/4	8	10-1/2	8	xl	HSS	C-4056-E	11366	41366
1-7/8	3/4	2	4-1/4	6	std	HSS	C-2460	11264	41264
2	3/4	2	4-1/4	6	std	HSS	C-2464	11266	41266
2	1-1/4	2	4-1/2	6	std	HSS	C-4064-A	11312	41312
2	3/4	2	4-1/4	8	std	HSS	C-2464-8	10959	40959
2	1-1/4	2	4-1/2	8	std	HSS	C-4064	11314	41314
2	1-1/4	2	4-1/2	6	std	M42	CP-4064	15048	45048
2	1-1/4	4	6-1/2	8	long	HSS	C-4064-L	11426	41426
2	2	6	9-3/4	6	long	HSS	C-6464-L	11430	41430
2	2	10	13-3/4	6	xxl	HSS	C-6464-EE	11372	41372
2-1/8	1-1/4	2	4-1/2	4	std	HSS	C-4068	11316	41316
2-1/4	1-1/4	2	4-1/2	4	std	HSS	C-4072	11318	41318
2-1/2	1-1/4	2	4-1/2	6	std	HSS	C-4080-A	11322	41322

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

4 FLUTE • CENTER CUTTING CORNER RADIUS END MILL

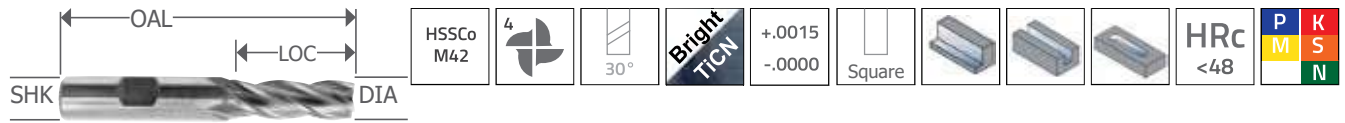


SERIES: CC-__-R

DIA	SHK	LOC	OAL	LENGTH	RADIUS	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/8	2-5/16	std	0.015	M42	CC-1204-R015	15212	45212
3/16	3/8	1/2	2-3/8	std	0.020	M42	CC-1206-R020	15214	45214
3/16	3/8	1/2	2-3/8	std	0.030	M42	CC-1206-R030	15216	45216
1/4	3/8	5/8	2-7/16	std	0.020	M42	CC-1208-R020	15218	45218
1/4	3/8	5/8	2-7/16	std	0.030	M42	CC-1208-R030	15220	45220
1/4	3/8	5/8	2-7/16	std	0.045	M42	CC-1208-R045	15222	45222
5/16	3/8	3/4	2-1/2	std	0.020	M42	CC-1210-R020	15224	45224
5/16	3/8	3/4	2-1/2	std	0.030	M42	CC-1210-R030	15226	45226
5/16	3/8	3/4	2-1/2	std	0.045	M42	CC-1210-R045	15228	45228
3/8	3/8	3/4	2-1/2	std	0.020	M42	CC-1212-R020	15230	45230
3/8	3/8	3/4	2-1/2	std	0.030	M42	CC-1212-R030	15232	45232
3/8	3/8	3/4	2-1/2	std	0.045	M42	CC-1212-R045	15234	45234
1/2	1/2	1-1/4	3-1/4	std	0.020	M42	CC-1616-R020	15236	45236
1/2	1/2	1-1/4	3-1/4	std	0.030	M42	CC-1616-R030	15238	45238
1/2	1/2	1-1/4	3-1/4	std	0.045	M42	CC-1616-R045	15240	45240
1/2	1/2	1-1/4	3-1/4	std	0.060	M42	CC-1616-R060	15242	45242
5/8	5/8	1-5/8	3-3/4	std	0.020	M42	CC-2020-R020	15244	45244
5/8	5/8	1-5/8	3-3/4	std	0.030	M42	CC-2020-R030	15246	45246
5/8	5/8	1-5/8	3-3/4	std	0.045	M42	CC-2020-R045	15248	45248
5/8	5/8	1-5/8	3-3/4	std	0.060	M42	CC-2020-R060	15250	45250
5/8	5/8	1-5/8	3-3/4	std	0.090	M42	CC-2020-R090	15252	45252
3/4	3/4	1-5/8	3-7/8	std	0.020	M42	CC-2424-R020	15254	45254
3/4	3/4	1-5/8	3-7/8	std	0.030	M42	CC-2424-R030	15256	45256
3/4	3/4	1-5/8	3-7/8	std	0.045	M42	CC-2424-R045	15258	45258
3/4	3/4	1-5/8	3-7/8	std	0.060	M42	CC-2424-R060	15260	45260
3/4	3/4	1-5/8	3-7/8	std	0.090	M42	CC-2424-R090	15262	45262
3/4	3/4	1-5/8	3-7/8	std	0.125	M42	CC-2424-R125	15264	45264
1	1	2	4-1/2	std	0.020	M42	CC-3232-R020	15266	45266
1	1	2	4-1/2	std	0.030	M42	CC-3232-R030	15268	45268
1	1	2	4-1/2	std	0.045	M42	CC-3232-R045	15270	45270
1	1	2	4-1/2	std	0.060	M42	CC-3232-R060	15272	45272
1	1	2	4-1/2	std	0.090	M42	CC-3232-R090	15274	45274
1	1	2	4-1/2	std	0.125	M42	CC-3232-R125	15276	45276

GENERAL PURPOSE COBALT & HSS END MILLS

4 FLUTE • CENTER CUTTING METRIC/INCH END MILL



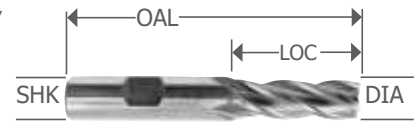
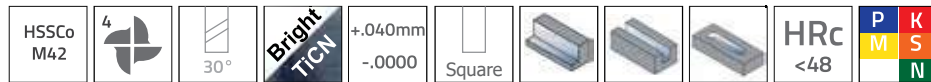
SERIES: CCP

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3mm	3/8	3/8	2-5/16	std	M42	CCP-12M3	11740	41740
3.5mm	3/8	7/16	2-5/16	std	M42	CCP-12M3.5	11741	41741
4mm	3/8	7/16	2-5/16	std	M42	CCP-12M4	11742	41742
4.5mm	3/8	7/16	2-5/16	std	M42	CCP-12M4.5	11743	41743
5mm	3/8	9/16	2-1/2	std	M42	CCP-12M5	11744	41744
5.5mm	3/8	5/8	2-1/2	std	M42	CCP-12M5.5	11745	41745
6mm	3/8	5/8	2-1/2	std	M42	CCP-12M6	11746	41746
6.5mm	3/8	11/16	2-1/2	std	M42	CCP-12M6.5	11747	41747
7mm	3/8	11/16	2-1/2	std	M42	CCP-12M7	11748	41748
7.5mm	3/8	3/4	2-1/2	std	M42	CCP-12M7.5	11749	41749
8mm	3/8	3/4	2-1/2	std	M42	CCP-12M8	11750	41750
8.5mm	3/8	3/4	2-1/2	std	M42	CCP-12M8.5	11751	41751
9mm	3/8	3/4	2-1/2	std	M42	CCP-12M9	11752	41752
9.5mm	3/8	3/4	2-1/2	std	M42	CCP-12M9.5	11753	41753
10mm	3/8	1	2-11/16	std	M42	CCP-12M10	11754	41754
10.5mm	3/8	1	2-11/16	std	M42	CCP-12M10.5	11755	41755
11mm	3/8	1	2-11/16	std	M42	CCP-12M11	11756	41756
11.5mm	3/8	1	2-11/16	std	M42	CCP-12M11.5	11757	41757
12mm	3/8	1	2-11/16	std	M42	CCP-12M12	11758	41758
12.5mm	1/2	1-1/4	3-1/4	std	M42	CCP-16M12.5	11759	41759
13mm	1/2	1-3/8	3-3/8	std	M42	CCP-16M13	11760	41760
13.5mm	1/2	1-3/8	3-3/8	std	M42	CCP-16M13.5	11761	41761
14mm	1/2	1-3/8	3-3/8	std	M42	CCP-16M14	11762	41762
14.5mm	1/2	1-3/8	3-3/8	std	M42	CCP-16M14.5	11763	41763
15mm	1/2	1-3/8	3-3/8	std	M42	CCP-16M15	11764	41764
16mm	5/8	1-5/8	3-3/4	std	M42	CCP-20M16	11766	41766
17mm	5/8	1-5/8	3-3/4	std	M42	CCP-20M17	11768	41768
18mm	5/8	1-5/8	3-3/4	std	M42	CCP-20M18	11770	41770
19mm	3/4	1-5/8	3-7/8	std	M42	CCP-24M19	11772	41772
20mm	3/4	1-7/8	4-1/8	std	M42	CCP-24M20	11774	41774
21mm	3/4	1-7/8	4-1/8	std	M42	CCP-24M21	11776	41776
22mm	3/4	1-7/8	4-1/8	std	M42	CCP-24M22	11778	41778
23mm	7/8	1-7/8	4-1/8	std	M42	CCP-28M23	11780	41780
24mm	1	2	4-1/2	std	M42	CCP-32M24	11782	41782
25mm	1	2	4-1/2	std	M42	CCP-32M25	11784	41784
28mm	1	2	4-1/2	std	M42	CCP-32M28	11786	41786
32mm	1	2	4-1/2	std	M42	CCP-32M32	11788	41788
35mm	1	2	4-1/2	std	M42	CCP-32M35	11790	41790
36mm	1	2	4-1/2	std	M42	CCP-32M36	11792	41792
40mm	1-1/4	2	4-1/2	std	M42	CCP-40M40	11794	41794
45mm	1-1/4	2	4-1/2	std	M42	CCP-40M45	11796	41796
50mm	1-1/4	2	4-1/2	std	M42	CCP-40M50	11798	41798

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

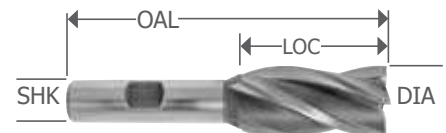
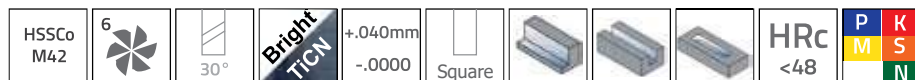
4 FLUTE • CENTER CUTTING METRIC END MILL



SERIES: CC-M_M_M_

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
2mm	6mm	7mm	57mm	std	M42	CC-M6M2	16365	46365
3mm	6mm	8mm	57mm	std	M42	CC-M6M3	16366	46366
4mm	6mm	11mm	57mm	std	M42	CC-M6M4	16367	46367
5mm	6mm	13mm	57mm	std	M42	CC-M6M5	16368	46368
6mm	6mm	13mm	57mm	std	M42	CC-M6M6	16369	46369
7mm	10mm	16mm	69mm	std	M42	CC-M10M7	16370	46370
8mm	10mm	19mm	69mm	std	M42	CC-M10M8	16371	46371
9mm	10mm	19mm	69mm	std	M42	CC-M10M9	16372	46372
10mm	10mm	22mm	72mm	std	M42	CC-M10M10	16373	46373
11mm	12mm	22mm	79mm	std	M42	CC-M12M11	16374	46374
12mm	12mm	26mm	83mm	std	M42	CC-M12M12	16375	46375
13mm	12mm	26mm	83mm	std	M42	CC-M12M13	16376	46376
14mm	12mm	26mm	83mm	std	M42	CC-M12M14	16377	46377
15mm	12mm	26mm	83mm	std	M42	CC-M12M15	16378	46378
16mm	16mm	32mm	92mm	std	M42	CC-M16M16	16379	46379
17mm	16mm	32mm	92mm	std	M42	CC-M16M17	16380	46380
18mm	16mm	32mm	92mm	std	M42	CC-M16M18	16381	46381
19mm	16mm	32mm	92mm	std	M42	CC-M16M19	16382	46382
20mm	20mm	38mm	104mm	std	M42	CC-M20M20	16383	46383

6 FLUTE • Non-CENTER CUTTING METRIC END MILL

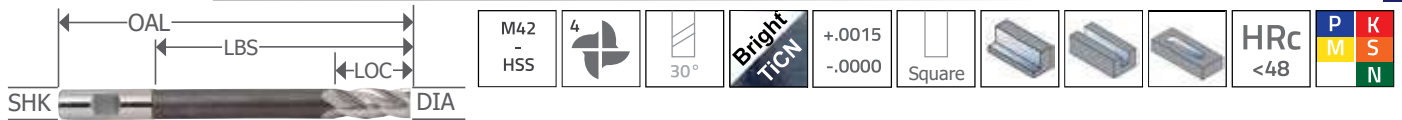


SERIES: C-M_M_M_

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
21mm	20mm	38mm	104mm	std	M42	C-M20M21	16384	46384
22mm	20mm	38mm	104mm	std	M42	C-M20M22	16385	46385
23mm	20mm	38mm	104mm	std	M42	C-M20M23	16386	46386
24mm	25mm	45mm	121mm	std	M42	C-M25M24	16387	46387
25mm	25mm	45mm	121mm	std	M42	C-M25M25	16388	46388
30mm	25mm	45mm	121mm	std	M42	C-M25M30	16389	46389
32mm	32mm	53mm	133mm	std	M42	C-M32M32	16390	46390

GENERAL PURPOSE COBALT & HSS END MILLS

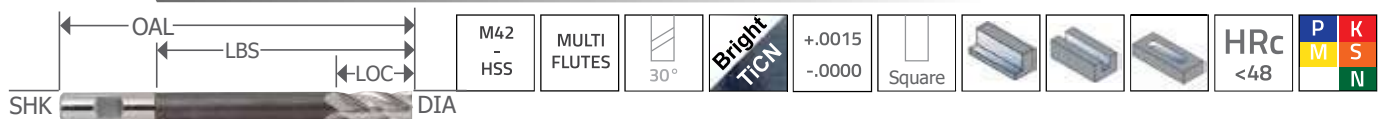
4 FLUTE • CENTER CUTTING EXTENDED NECK END MILL



SERIES: CCN

DIA	SHK	LOC	LBS	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/8	3/8	1	3-1/4	5	std	M42	CCN-1212	11235	41235
1/2	1/2	1-1/4	4	6	std	HSS	CCN-1616	11237	41237
5/8	5/8	1-1/2	5	7-1/8	std	HSS	CCN-2020	11239	41239
3/4	3/4	2	6	8-1/4	std	HSS	CCN-2424	11241	41241
1	1	2-1/2	8	10-1/4	std	HSS	CCN-3232	11243	41243

MULTI FLUTE • Non-CENTER CUTTING EXTENDED NECK END MILL



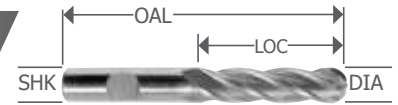
SERIES: CN

DIA	SHK	LOC	LBS	OAL	FLUTE	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/8	3/8	1	3	5	4	std	M42	CN-1212	11221	41221
1/2	1/2	1-1/4	4	6	4	std	HSS	CN-1616	11223	41223
5/8	5/8	1-1/2	5	7-1/8	4	std	HSS	CN-2020	11225	41225
3/4	3/4	2	6	8-1/4	4	std	HSS	CN-2424	11227	41227
1	1	2-1/2	8	10-1/4	4	std	HSS	CN-3232	11229	41229
1-1/4	1-1/4	3-1/2	10	12-1/2	6	std	HSS	CN-4040	11231	41231
2	2	4	12	15-1/4	6	std	HSS	CN-6464	11233	41233

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

4 FLUTE • CENTER CUTTING BALL NOSE END MILL

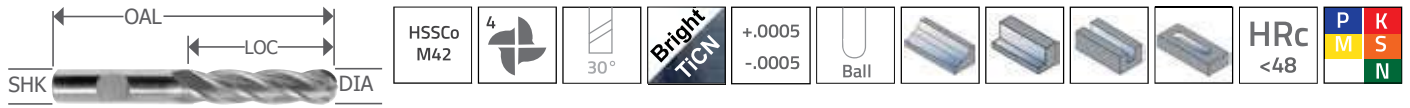


SERIES: CC-__-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/8	3/8	3/8	2-5/16	std	M42	CC-1204-B	11496	41496
5/32	3/8	7/16	2-5/16	std	M42	CC-1205-B	11498	41498
3/16	3/8	1/2	2-3/8	std	M42	CC-1206-B	11500	41500
3/16	3/8	3/4	2-5/8	long	M42	CC-1206-LB	11614	41614
7/32	3/8	1/2	2-3/8	std	M42	CC-1207-B	11502	41502
1/4	3/8	3/4	2-9/16	std	M42	CC-1208-B	11504	41504
1/4	3/8	1-1/4	3-1/16	long	M42	CC-1208-LB	11618	41618
1/4	3/8	1-3/4	3-9/16	xl	M42	CC-1208-EB	11564	41564
9/32	3/8	11/16	2-1/2	std	M42	CC-1209-B	11506	41506
9/32	3/8	1-3/8	3-1/8	long	M42	CC-1209-LB	11620	41620
5/16	3/8	1	2-3/4	std	M42	CC-1210-B	11508	41508
5/16	3/8	1-3/8	3-1/8	long	M42	CC-1210-LB	11622	41622
5/16	3/8	2	3-3/4	xl	M42	CC-1210-EB	11566	41566
11/32	3/8	3/4	2-1/2	std	M42	CC-1211-B	11510	41510
11/32	3/8	1-1/2	3-1/4	long	M42	CC-1211-LB	11624	41624
3/8	3/8	1	2-3/4	std	M42	CC-1212-B	11512	41512
3/8	3/8	1-1/2	3-1/4	long	M42	CC-1212-LB	11626	41626
3/8	3/8	2-1/2	4-1/4	xl	M42	CC-1212-EB	11568	41568
7/16	3/8	1	2-11/16	std	M42	CC-1214-B	11514	41514
1/2	3/8	1	2-11/16	std	M42	CC-1216-B	11516	41516
1/2	1/2	1-1/4	3-1/4	std	M42	CC-1616-B	11518	41518
1/2	1/2	2	4	long	M42	CC-1616-LB	11628	41628
1/2	1/2	3	5	xl	M42	CC-1616-EB	11570	41570
5/8	5/8	1-5/8	3-3/4	std	M42	CC-2020-B	11520	41520
5/8	5/8	2-1/2	4-5/8	long	M42	CC-2020-LB	11630	41630
5/8	5/8	4	6-1/8	xl	M42	CC-2020-EB	11572	41572
11/16	5/8	1-5/8	3-3/4	std	M42	CC-2022-B	11522	41522
3/4	3/4	1-5/8	3-7/8	std	M42	CC-2424-B	11524	41524
3/4	3/4	3	5-1/4	long	M42	CC-2424-LB	11632	41632
3/4	3/4	4	6-1/4	xl	M42	CC-2424-EB	11574	41574
7/8	7/8	1-7/8	4-1/8	std	M42	CC-2828-B	11526	41526
7/8	7/8	3-1/2	5-3/4	long	M42	CC-2828-LB	11634	41634
1	1	2	4-1/2	std	M42	CC-3232-B	11528	41528
1	1	4	6-1/2	long	M42	CC-3232-LB	11636	41636
1	1	6	8-1/2	xl	M42	CC-3232-EB	11578	41578
1-1/8	1	2	4-1/2	std	M42	CC-3236-B	11530	41530
1-1/4	1-1/4	2	4-1/2	std	M42	CC-4040-B	11532	41532
1-1/4	1-1/4	4	6-1/2	long	M42	CC-4040-LB	11638	41638
1-1/4	1-1/4	6	8-1/2	xl	M42	CC-4040-EB	11580	41580
1-1/2	1-1/4	2	4-1/2	std	HSS	CC-4048-B	11534	41534
1-1/2	1-1/4	4	6-1/2	long	HSS	CC-4048-LB	11333	41333

GENERAL PURPOSE COBALT & HSS END MILLS

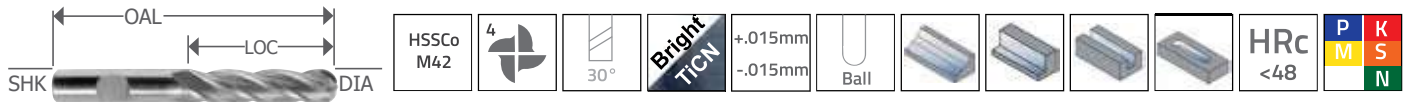
4 FLUTE • CENTER CUTTING BALL NOSE METRIC/ INCH END MILL



SERIES: CCP- _M_-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3mm	3/8	3/8	2-5/16	std	M42	CCP-12M3-B	13002	43002
4mm	3/8	7/16	2-5/16	std	M42	CCP-12M4-B	13004	43004
5mm	3/8	9/16	2-1/2	std	M42	CCP-12M5-B	13006	43006
6mm	3/8	5/8	2-1/2	std	M42	CCP-12M6-B	13008	43008
7mm	3/8	11/16	2-1/2	std	M42	CCP-12M7-B	13010	43010
8mm	3/8	3/4	2-1/2	std	M42	CCP-12M8-B	13012	43012
9mm	3/8	3/4	2-1/2	std	M42	CCP-12M9-B	13014	43014
10mm	3/8	1	2-11/16	std	M42	CCP-12M10-B	13016	43016
11mm	3/8	1	2-11/16	std	M42	CCP-12M11-B	13018	43018
12mm	3/8	1	2-11/16	std	M42	CCP-12M12-B	13020	43020
13mm	1/2	1-1/4	3-1/4	std	M42	CCP-16M13-B	13022	43022
14mm	1/2	1-3/8	3-3/8	std	M42	CCP-16M14-B	13024	43024

4 FLUTE • CENTER CUTTING BALL NOSE METRIC END MILL



SERIES: CC-M _M_-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
2mm	6mm	7mm	57mm	std	M42	CC-M6M2-B	17964	47964
3mm	6mm	8mm	57mm	std	M42	CC-M6M3-B	17965	47965
4mm	6mm	11mm	57mm	std	M42	CC-M6M4-B	17966	47966
5mm	6mm	13mm	57mm	std	M42	CC-M6M5-B	17967	47967
6mm	6mm	13mm	57mm	std	M42	CC-M6M6-B	17968	47968
7mm	10mm	16mm	69mm	std	M42	CC-M10M7-B	17969	47969
8mm	10mm	19mm	69mm	std	M42	CC-M10M8-B	17970	47970
9mm	10mm	19mm	69mm	std	M42	CC-M10M9-B	17971	47971
10mm	10mm	22mm	72mm	std	M42	CC-M10M10-B	17972	47972
11mm	12mm	22mm	79mm	std	M42	CC-M12M11-B	17973	47973
12mm	12mm	26mm	83mm	std	M42	CC-M12M12-B	17974	47974
13mm	12mm	26mm	83mm	std	M42	CC-M12M13-B	17975	47975
14mm	12mm	26mm	83mm	std	M42	CC-M12M14-B	17976	47976
15mm	12mm	26mm	83mm	std	M42	CC-M12M15-B	17977	47977
16mm	16mm	32mm	92mm	std	M42	CC-M16M16-B	17978	47978
17mm	16mm	32mm	92mm	std	M42	CC-M16M17-B	17979	47979
18mm	16mm	32mm	92mm	std	M42	CC-M16M18-B	17980	47980
19mm	16mm	32mm	92mm	std	M42	CC-M16M19-B	17981	47981
20mm	20mm	38mm	104mm	std	M42	CC-M20M20-B	17982	47982
21mm	20mm	38mm	104mm	std	M42	CC-M20M21-B	17983	47983
22mm	20mm	38mm	104mm	std	M42	CC-M20M22-B	17984	47984
23mm	20mm	38mm	104mm	std	M42	CC-M20M23-B	17985	47985
24mm	25mm	45mm	121mm	std	M42	CC-M25M24-B	17986	47986
25mm	25mm	45mm	121mm	std	M42	CC-M25M25-B	17987	47987
30mm	25mm	45mm	121mm	std	M42	CC-M25M30-B	17988	47988
32mm	32mm	53mm	133mm	std	M42	CC-M32M32-B	17989	47989

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

4 FLUTE • CENTER CUTTING BALL NOSE EXTENDED NECK



SERIES: CCN-__-B

DIA	SHK	LOC	LBS	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/8	3/8	1	3	5	std	M42	CCN-1212-B	11245	41245
1/2	1/2	1-1/4	4	6	std	HSS	CCN-1616-B	11247	41247
5/8	5/8	1-1/2	5	7-1/8	std	HSS	CCN-2020-B	11249	41249
3/4	3/4	2	6	8-1/4	std	HSS	CCN-2424-B	11251	41251
1	1	2-1/2	8	10-1/4	std	HSS	CCN-3232-B	11253	41253

2 FLUTE • 40° CENTER CUTTING FOR ALUMINUM END MILL



SERIES: AA

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/16	3/8	7/16	2-5/16	std	M42	AA-1206	10614	40614
3/16	3/8	3/4	2-5/8	long	M42	AA-1206-L	10646	40646
3/16	3/8	1-1/4	3-1/8	xl	M42	AA-1206-E	10698	40698
1/4	3/8	1/2	2-5/16	std	M42	AA-1208	10616	40616
1/4	3/8	5/8	2-7/16	med	M42	AA-1208-M	10648	40648
1/4	3/8	3/4	2-5/8	med/med	M42	AA-1208-MM	10650	40650
1/4	3/8	1	2-7/8	med/long	M42	AA-1208-ML	10652	40652
1/4	3/8	1-1/4	3-1/16	long	M42	AA-1208-L	10654	40654
1/4	3/8	1-1/2	3-3/8	long/long	M42	AA-1208-LL	10656	40656
1/4	3/8	1-3/4	3-9/16	xl	M42	AA-1208-E	10700	40700
5/16	3/8	9/16	2-5/16	std	M42	AA-1210	10618	40618
5/16	3/8	3/4	2-1/2	med	M42	AA-1210-M	10658	40658
5/16	3/8	1	2-3/4	med/med	M42	AA-1210-MM	10660	40660
5/16	3/8	1-3/8	3-1/8	long	M42	AA-1210-L	10662	40662
5/16	3/8	2	3-3/4	xl	M42	AA-1210-E	10702	40702
3/8	3/8	9/16	2-5/16	std	M42	AA-1212	10620	40620
3/8	3/8	3/4	2-1/2	med	M42	AA-1212-M	10664	40664
3/8	3/8	1	2-3/4	med/med	M42	AA-1212-MM	10666	40666
3/8	3/8	1-1/2	3-1/4	long	M42	AA-1212-L	10668	40668
3/8	3/8	2	3-3/4	long/long	M42	AA-1212-LL	10670	40670
3/8	3/8	2-1/2	4-1/4	xl	M42	AA-1212-E	10704	40704
7/16	3/8	1	2-11/16	std	M42	AA-1214	10622	40622
7/16	1/2	1-3/4	3-3/4	long	M42	AA-1614-L	10672	40672
1/2	1/2	1	3	std	M42	AA-1616	10624	40624
1/2	1/2	1-1/4	3-1/4	med	M42	AA-1616-M	10674	40674
1/2	1/2	1-3/4	3-3/4	med/med	M42	AA-1616-MM	10676	40676
1/2	1/2	2	4	long	M42	AA-1616-L	10678	40678
1/2	1/2	2-1/2	4-1/2	long/long	M42	AA-1616-LL	10680	40680
1/2	1/2	3	5	xl	M42	AA-1616-E	10708	40708
5/8	5/8	1-3/8	3-1/2	stub	M42	AA-2020	10628	40628
5/8	5/8	1-5/8	3-3/4	std	M42	AA-2020	10626	40626
5/8	5/8	2-1/2	4-5/8	long	M42	AA-2020-L	10682	40682
5/8	5/8	4	6-1/8	xl	M42	AA-2020-E	10710	40710

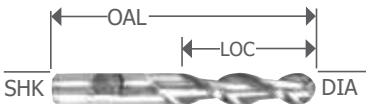
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2 FLUTE • 40° CENTER CUTTING FOR ALUMINUM END MILL

SERIES: AA

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/4	3/4	1-5/8	3-7/8	std	M42	AA-2424	10630	40630
3/4	3/4	2	4-1/4	med	M42	AA-2424-M	10684	40684
3/4	3/4	3	5-1/4	long	M42	AA-2424-L	10686	40686
3/4	3/4	4	6-1/4	xl	M42	AA-2424-E	10712	40712
7/8	7/8	1-7/8	4-1/8	std	M42	AA-2828	10634	40634
1	3/4	1-7/8	4-1/8	std	M42	AA-2432	10632	40632
1	1	2	4-1/2	std	M42	AA-3232	10636	40636
1	1	4	6-1/2	long	M42	AA-3232-L	10690	40690
1	1	6	8-1/2	xl	M42	AA-3232-E	10716	40716
1-1/4	1-1/4	2	4-1/2	std	M42	AA-4040	10638	40638
1-1/2	1-1/4	2	4-1/2	std	HSS	AA-4048	10640	40640
1-1/2	1-1/4	4	6-1/2	long	HSS	AA-4048-L	10694	40694

2 FLUTE • 40° CENTER CUTTING BALL NOSE FOR ALUMINUM END MILL



SERIES: AA- -B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/4	3/8	1/2	2-5/16	std	M42	AA-1208-B	12842	42842
1/4	3/8	5/8	2-1/2	med	M42	AA-1208-MB	11713	41713
1/4	3/8	1-1/4	3-1/16	long	M42	AA-1208-LB	12844	42844
1/4	3/8	1-3/4	3-9/16	xl	M42	AA-1208-EB	12846	42846
5/16	3/8	9/16	2-5/16	std	M42	AA-1210-B	12848	42848
5/16	3/8	3/4	2-1/2	med	M42	AA-1210-MB	11714	41714
5/16	3/8	1-3/8	3-1/8	long	M42	AA-1210-LB	12850	42850
5/16	3/8	2	3-3/4	xl	M42	AA-1210-EB	12852	42852
3/8	3/8	9/16	2-5/16	std	M42	AA-1212-B	12854	42854
3/8	3/8	3/4	2-1/2	med	M42	AA-1212-MB	11715	41715
3/8	3/8	1-1/2	3-1/4	long	M42	AA-1212-LB	12856	42856
3/8	3/8	2-1/2	4-1/4	xl	M42	AA-1212-EB	12858	42858
7/16	3/8	1	2-11/16	std	M42	AA-1214-B	12860	42860
7/16	1/2	1-3/4	3-3/4	long	M42	AA-1614-LB	12862	42862
7/16	1/2	2-3/4	4-3/4	xl	M42	AA-1614-EB	12864	42864
1/2	1/2	1	3	std	M42	AA-1616-B	12866	42866
1/2	1/2	2	4	long	M42	AA-1616-LB	12868	42868
1/2	1/2	3	5	xl	M42	AA-1616-EB	12870	42870
5/8	5/8	1-5/8	3-3/4	std	M42	AA-2020-B	12872	42872
5/8	5/8	2-1/2	4-5/8	long	M42	AA-2020-LB	12874	42874
5/8	5/8	4	6-1/8	xl	M42	AA-2020-EB	12876	42876
3/4	3/4	1-5/8	3-7/8	std	M42	AA-2424-B	12878	42878
3/4	3/4	3	5-1/4	long	M42	AA-2424-LB	12880	42880
3/4	3/4	4	6-1/4	xl	M42	AA-2424-EB	12882	42882
7/8	7/8	1-7/8	4-1/8	std	M42	AA-2828-B	12886	42886
7/8	7/8	3-1/2	5-3/4	long	M42	AA-2828-LB	12888	42888
1	3/4	1-7/8	4-1/8	std	M42	AA-2432-B	12884	42884
1	1	2	4-1/2	std	M42	AA-3232-B	12892	42892
1	1	4	6-1/2	long	M42	AA-3232-LB	12894	42894
1	1	6	8-1/2	xl	M42	AA-3232-EB	12896	42896

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

3 FLUTE • 60° HELIX CENTER CUTTING END MILL



SERIES: E60

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/4	3/8	5/8	2-7/16	std	M42	E60-1208	15460
5/16	3/8	3/4	2-1/2	std	M42	E60-1210	15462
3/8	3/8	3/4	2-1/2	std	M42	E60-1212	15464
3/8	3/8	1-1/2	3-1/4	long	M42	E60-1212-L	15466
1/2	1/2	1-1/4	3-1/4	std	M42	E60-1616	15468
1/2	1/2	2	4	long	M42	E60-1616-L	15470
1/2	1/2	3	5	xl	M42	E60-1616-E	15472
5/8	5/8	1-5/8	3-3/4	std	M42	E60-2020	15474
5/8	5/8	2-1/2	4-5/8	long	M42	E60-2020-L	15476
3/4	3/4	1-5/8	3-7/8	std	M42	E60-2424	15478
3/4	3/4	3	5-1/4	long	M42	E60-2424-L	15480
1	1	2	4-1/2	std	M42	E60-3232	15486
1	1	4	6-1/2	long	M42	E60-3232-L	15488

3 FLUTE • NON-CENTER CUTTING CORNER ROUNDING END MILL



SERIES: R

RADIUS	MINOR DIA	LARGE DIA	SHK	OAL	MAT	TOOL	BRIGHT EDP
1/32	5/16	3/8	3/8	2-1/2	M42	R-1201	12694
1/32	7/16	1/2	1/2	2-5/8	M42	R-1601	12700
1/16	5/16	7/16	3/8	2-1/2	M42	R-1202	12696
1/16	3/8	1/2	1/2	2-5/8	M42	R-1602	12702
3/32	5/16	1/2	3/8	2-1/2	M42	R-1203	12698
3/32	5/16	1/2	1/2	2-5/8	M42	R-1603	12704
1/8	3/8	5/8	1/2	2-7/8	M42	R-1604	12706
5/32	5/16	5/8	1/2	2-7/8	M42	R-1605	12708
3/16	3/8	3/4	1/2	3	M42	R-1606	12710
3/16	3/8	3/4	3/4	3-1/8	M42	R-2406	12732
7/32	7/16	7/8	1/2	3	M42	R-1607	12712
1/4	3/8	7/8	1/2	3	M42	R-1608	12714
1/4	3/8	7/8	3/4	3-1/4	M42	R-2408	12734
9/32	7/16	1	1/2	3	M42	R-1609	12716
5/16	3/8	1	1/2	3	M42	R-1610	12718
5/16	3/8	1	3/4	3-1/4	M42	R-2410	12736
11/32	7/16	1-1/8	1/2	3-1/4	M42	R-1611	12720
3/8	3/8	1-1/8	1/2	3-1/4	M42	R-1612	12722
3/8	3/8	1-1/8	3/4	3-1/2	M42	R-2412	12738
13/32	7/16	1-1/4	1/2	3-1/2	M42	R-1613	12724
7/16	3/8	1-1/4	1/2	3-1/2	M42	R-1614	12726
15/32	7/16	1-3/8	1/2	3-1/2	HSS	R-1615	12728
1/2	3/8	1-3/8	1/2	3-1/2	HSS	R-1616	12730
1/2	3/8	1-3/8	3/4	3-3/4	HSS	R-2416	12740
9/16	3/8	1-1/2	3/4	3-3/4	HSS	R-2418	12742
5/8	3/8	1-5/8	3/4	3-3/4	HSS	R-2420	12744
3/4	3/8	1-7/8	3/4	3-3/4	HSS	R-2424	12746
1	3/4	2-3/4	3/4	4-1/2	HSS	R-2432	12748

GENERAL PURPOSE COBALT & HSS END MILLS

4 FLUTE • NON-CENTER CUTTING CORNER ROUNDING END MILL



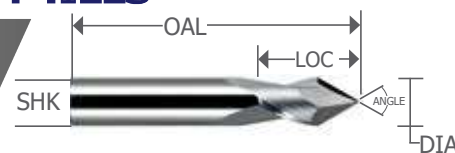
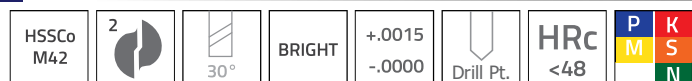
SERIES: RC

RADIUS	MINOR DIA	LARGE DIA	SHK	OAL	FLT	MAT	TOOL	BRIGHT EDP
1/32	3/8	7/16	3/8	2-1/2	4	M42	RC-1201	13060
1/16	5/16	7/16	3/8	2-1/2	4	M42	RC-1202	13062
3/32	5/16	1/2	3/8	2-1/2	4	M42	RC-1203	13064
1/8	3/8	5/8	1/2	3	4	M42	RC-1604	13066
5/32	7/16	3/4	1/2	3	4	M42	RC-1605	13068
3/16	1/2	7/8	1/2	2-15/16	4	M42	RC-1606	13070
3/16	1/2	7/8	3/4	3-1/8	4	M42	RC-2406	13078
1/4	1/2	1	1/2	3	4	M42	RC-1608	13072
1/4	1/2	1	3/4	3-1/4	4	M42	RC-2408	13080
5/16	1/2	1-1/8	1/2	3-1/2	4	M42	RC-1610	13074
5/16	1/2	1-1/8	7/8	3-1/2	4	M42	RC-2810	13092
3/8	1/2	1-1/4	1/2	3-3/4	4	M42	RC-1612	13076
3/8	1/2	1-1/4	7/8	3-3/4	4	M42	RC-2812	13094
7/16	1/2	1-3/8	3/4	3-3/4	4	HSS	RC-2414	13082
7/16	1/2	1-3/8	1	4	4	HSS	RC-3214	13096
1/2	1/2	1-1/2	3/4	3-7/8	4	HSS	RC-2416	13084
1/2	1/2	1-1/2	1	4-1/8	4	HSS	RC-3216	13098
5/8	11/16	1-15/16	3/4	4	4	HSS	RC-2420	13086
5/8	11/16	1-15/16	1	4-1/4	4	HSS	RC-3220	13100
3/4	3/4	2-1/4	3/4	4-1/8	4	HSS	RC-2424	13088
3/4	3/4	2-1/4	1	4-5/16	4	HSS	RC-3224	13102
1	3/4	2-3/4	3/4	4-1/2	4	HSS	RC-2432	13090
1	3/4	2-3/4	1	4-3/4	4	HSS	RC-3232	13104

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • 60° AND 82° DRILL POINT END MILL



SERIES: A-__-DP60

DIA	SHK	LOC	OAL	ANGLE	LENGTH	MAT	TOOL	BRIGHT EDP
1/8	3/8	3/8	2-5/16	60°	std	M42	A-1204-DP60	16335
3/16	3/8	7/16	2-5/16	60°	std	M42	A-1206-DP60	16337
1/4	3/8	5/8	2-7/16	60°	std	M42	A-1208-DP60	16037
1/4	3/8	5/8	2-7/16	60°	std	M42	A-1208-DP60-1	16324
5/16	3/8	23/32	2-15/32	60°	std	M42	A-1210-DP60	16038
3/8	3/8	3/4	2-1/2	60°	std	M42	A-1212-DP60	16039
3/8	3/8	3/4	2-1/2	60°	std	M42	A-1212-DP60-1	16327
1/2	1/2	1-1/4	3-1/4	60°	std	M42	A-1616-DP60	16041
1/2	1/2	1-1/4	3-1/4	60°	std	M42	A-1616-DP60-1	16329
5/8	5/8	1-5/8	3-3/4	60°	std	M42	A-2020-DP60	16042
3/4	3/4	1-11/16	3-15/16	60°	std	M42	A-2424-DP60	16044
3/4	3/4	1-11/16	3-15/16	60°	std	M42	A-2424-DP60-1	16331
7/8	3/4	1-15/16	4-3/16	60°	std	M42	A-2428-DP60	16045
1	3/4	2	4-1/4	60°	std	M42	A-2432-DP60	16047

Tool names with "-1" have a .005" sharp point for groove milling

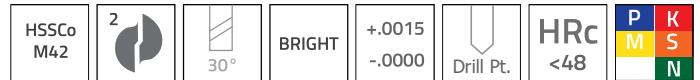
SERIES: A-__-DP82

DIA	SHK	LOC	OAL	ANGLE	LENGTH	MAT	TOOL	BRIGHT EDP
1/8	3/8	3/8	2-5/16	82°	std	M42	A-1204-DP82	16440
3/16	3/8	7/16	2-5/16	82°	std	M42	A-1206-DP82	16441
1/4	3/8	5/8	2-7/16	82°	std	M42	A-1208-DP82	16442
5/16	3/8	23/32	2-15/32	82°	std	M42	A-1210-DP82	16443
3/8	3/8	3/4	2-1/2	82°	std	M42	A-1212-DP82	16444
1/2	1/2	1-1/4	3-1/4	82°	std	M42	A-1616-DP82	16446
9/16	1/2	1-13/32	3-13/32	82°	std	M42	A-1618-DP82	16447
5/8	5/8	1-5/8	3-3/4	82°	std	M42	A-2020-DP82	16448

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • 90°, 100° & 120° DRILL POINT END MILL



SERIES: A-__-DP

DIA	SHK	LOC	OAL	ANGLE	LENGTH	MAT	TOOL	BRIGHT EDP
1/8	3/8	3/8	2-5/16	90°	std	M42	A-1204-DP	16334
1/8	3/8	3/8	2-5/16	90°	std	M42	A-1204-DP-1	16710
3/16	3/8	7/16	2-5/16	90°	std	M42	A-1206-DP	16336
3/16	3/8	7/16	2-5/16	90°	std	M42	A-1206-DP-1	16452
1/4	3/8	5/8	2-7/16	90°	std	M42	A-1208-DP	15434
1/4	3/8	5/8	2-7/16	90°	std	M42	A-1208-DP-1	16323
5/16	3/8	23/32	2-15/32	90°	std	M42	A-1210-DP	15436
5/16	3/8	23/32	2-15/32	90°	std	M42	A-1210-DP-1	16325
3/8	3/8	3/4	2-1/2	90°	std	M42	A-1212-DP	15438
3/8	3/8	3/4	2-1/2	90°	std	M42	A-1212-DP-1	16326
7/16	3/8	1-1/32	2-23/32	90°	std	M42	A-1214-DP	15440
7/16	3/8	1-1/32	2-23/32	90°	std	M42	A-1214-DP-1	16449
1/2	1/2	1-1/4	3-1/4	90°	std	M42	A-1616-DP	15442
1/2	1/2	1-1/4	3-1/4	90°	std	M42	A-1616-DP-1	16328
9/16	1/2	1-13/32	3-13/32	90°	std	M42	A-1618-DP	15444
9/16	1/2	1-13/32	3-13/32	90°	std	M42	A-1618-DP-1	16450
5/8	5/8	1-5/8	3-3/4	90°	std	M42	A-2020-DP	15446
5/8	5/8	1-5/8	3-3/4	90°	std	M42	A-2020-DP-1	16451
11/16	5/8	1-21/32	3-25/32	90°	std	M42	A-2022-DP	15448
3/4	3/4	1-11/16	3-15/16	90°	std	M42	A-2424-DP	15450
3/4	3/4	1-11/16	3-15/16	90°	std	M42	A-2424-DP-1	16330
13/16	3/4	1-29/32	4-5/32	90°	std	M42	A-2426-DP	15452
7/8	3/4	1-15/16	4-3/16	90°	std	M42	A-2428-DP	15454
15/16	3/4	1-31/32	4-7/32	90°	std	M42	A-2430-DP	15456
1	3/4	2	4-1/4	90°	std	M42	A-2432-DP	15458
1	3/4	2	4-1/4	90°	std	M42	A-2432-DP-1	16332

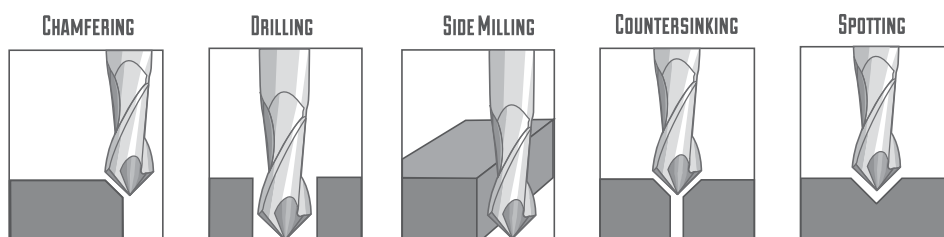
Tool names with "-1" have a .005" sharp point for groove milling

SERIES: A-__-DP100

DIA	SHK	LOC	OAL	ANGLE	LENGTH	MAT	TOOL	BRIGHT EDP
1/4	3/8	5/8	2-7/16	100°	std	M42	A-1208-DP100	16596
3/8	3/8	3/4	2-1/2	100°	std	M42	A-1212-DP100	16597

SERIES: A-__-DP120

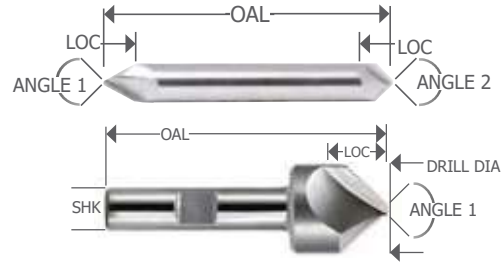
DIA	SHK	LOC	OAL	ANGLE	LENGTH	MAT	TOOL	BRIGHT EDP
1/2	1/2	1-1/4	3-1/4	120°	std	M42	A-1616-DP120	16040
3/4	3/4	1-11/16	3-15/16	120°	std	M42	A-2424-DP120	16043
1	3/4	2	4-1/4	120°	std	M42	A-2432-DP120	16046



GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

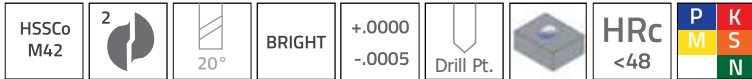
2 FLUTE • SINGLE/DOUBLE END ANGLE END MILLS



SERIES: AM

DIA	SHK	OAL	END	LENGTH	ANGLE 1	ANGLE 2	MAT	TOOL	BRIGHT EDP
3/8	3/8	2-3/4	DE	std	60°	90°	M42	AM-3/8-60/90	19242
3/8	3/8	2-3/4	DE	std	82°	90°	M42	AM-3/8-82/90	19241
3/8	3/8	2-3/4	DE	std	90°	90°	M42	AM-3/8-90/90	19240
1/2	1/2	3-3/8	DE	std	60°	90°	M42	AM-1/2-60/90	19247
1/2	1/2	3-3/16	DE	std	82°	90°	M42	AM-1/2-82/90	19246
1/2	1/2	3-3/16	DE	std	90°	90°	M42	AM-1/2-90/90	19245
3/4	3/4	3-3/8	DE	std	60°	90°	M42	AM-3/4-60/90	19252
3/4	3/4	3-3/16	DE	std	82°	90°	M42	AM-3/4-82/90	19251
3/4	3/8	2-3/8	SE	std	90°	-	M42	AM-3/4-90	19243
3/4	3/4	3-3/16	DE	std	90°	90°	M42	AM-3/4-90/90	19250
1	1/2	2-15/16	SE	std	90°	-	M42	AM-1-90	19248
1-1/4	3/4	3-3/8	SE	std	90°	-	M42	AM-1-1/4-90	19253

2 FLUTE • 82°, 90° OR 120° NC SPOTTING DRILLS



SERIES: HSNC

DRILL DIA	SHK	LOC	OAL	LENGTH	DRILL POINT	MAT	TOOL	BRIGHT EDP
4mm	4mm	12mm	52mm	std	82°	M42	HSNC-4M-82	10847
4mm	4mm	12mm	52mm	std	90°	M42	HSNC-4M-90	10849
4mm	4mm	12mm	52mm	std	120°	M42	HSNC-4M-120	10851
1/4	1/4	7/8	2-5/8	std	82°	M42	HSNC-1/4-82	10853
1/4	1/4	7/8	2-5/8	std	90°	M42	HSNC-1/4-90	10855
1/4	1/4	7/8	2-5/8	std	120°	M42	HSNC-1/4-120	10857
8mm	8mm	25mm	79mm	std	82°	M42	HSNC-8M-82	10859
8mm	8mm	25mm	79mm	std	90°	M42	HSNC-8M-90	10861
8mm	8mm	25mm	79mm	std	120°	M42	HSNC-8M-120	10863
3/8	3/8	1	3-1/2	std	82°	M42	HSNC-3/8-82	10865
3/8	3/8	1	3-1/2	std	90°	M42	HSNC-3/8-90	10867
3/8	3/8	1	3-1/2	std	120°	M42	HSNC-3/8-120	10869
1/2	1/2	1-3/8	4	std	82°	M42	HSNC-1/2-82	10871
1/2	1/2	1-3/8	4	std	90°	M42	HSNC-1/2-90	10873
1/2	1/2	1-3/8	4	std	120°	M42	HSNC-1/2-120	10875
5/8	5/8	1-3/8	4-1/2	std	82°	M42	HSNC-5/8-82	10877
5/8	5/8	1-3/8	4-1/2	std	90°	M42	HSNC-5/8-90	10879
5/8	5/8	1-3/8	4-1/2	std	120°	M42	HSNC-5/8-120	10881
3/4	3/4	1-1/2	5-3/16	std	82°	M42	HSNC-3/4-82	10883
3/4	3/4	1-1/2	5-3/16	std	90°	M42	HSNC-3/4-90	10885
3/4	3/4	1-1/2	5-3/16	std	120°	M42	HSNC-3/4-120	10887

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • DOUBLE END CENTER CUTTING END MILLS



SERIES: B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/32	3/16	3/64	2	stub	M42	BS-601	11082
1/32	3/16	3/32	2-1/4	std	M42	B-601	10872
3/64	3/16	1/16	2	stub	M42	BS-601-1/2	11084
3/64	3/16	9/64	2-1/4	std	M42	B-601-1/2	10874
1/16	3/16	3/32	2	stub	M42	BS-602	11086
1/16	3/16	3/16	2-1/4	std	M42	B-602	10876
1/16	3/16	7/32	2-1/2	long	M42	B-602-L	11048
5/64	3/16	1/8	2	stub	M42	BS-602-1/2	11088
5/64	3/16	15/64	2-1/4	std	M42	B-602-1/2	10878
3/32	3/16	9/64	2	stub	M42	BS-603	11090
3/32	3/16	9/32	2-1/4	std	M42	B-603	10880
3/32	3/16	1/2	2-5/8	long	M42	B-603-L	11050
7/64	3/16	5/32	2	stub	M42	BS-603-1/2	11092
7/64	3/16	21/64	2-1/4	std	M42	B-603-1/2	10882
1/8	3/16	3/16	2	stub	M42	BS-604	11094
1/8	3/16	3/8	2-1/4	std	M42	B-604	10884
1/8	3/16	3/4	3-1/8	long	M42	B-604-L	11052
9/64	3/16	7/32	2	stub	M42	BS-604-1/2	11096
9/64	3/16	13/32	2-1/4	std	M42	B-604-1/2	10886
5/32	3/16	15/64	2	stub	M42	BS-605	11098
5/32	3/16	7/16	2-1/4	std	M42	B-605	10888
5/32	3/16	7/8	3-1/4	long	M42	B-605-L	11054
11/64	3/16	1/4	2	stub	M42	BS-605-1/2	11100
11/64	3/16	1/2	2-1/4	std	M42	B-605-1/2	10890
3/16	3/16	9/32	2	stub	M42	BS-606	11102
3/16	3/16	1/2	2-1/4	std	M42	B-606	10892
3/16	3/16	1	3-3/8	long	M42	B-606-L	11056

If shank and mill diameters are the same, tolerance is +.0000/-0.0025

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
5/64	3/8	5/16	3-1/16	std	M42	B-1202-1/2	10894
3/32	3/8	5/16	3-1/16	std	M42	B-1203	10896
7/64	3/8	3/8	3-1/16	std	M42	B-1203-1/2	10898
1/8	3/8	3/16	2-3/4	stub	M42	BS-1204	11104
1/8	3/8	3/8	3-1/16	std	M42	B-1204	10900
9/64	3/8	7/16	3-1/8	std	M42	B-1204-1/2	10902
5/32	3/8	15/64	2-3/4	stub	M42	BS-1205	11106
5/32	3/8	7/16	3-1/8	std	M42	B-1205	10904
11/64	3/8	7/16	3-1/8	std	M42	B-1205-1/2	10906
3/16	3/8	9/32	2-3/4	stub	M42	BS-1206	11108
3/16	3/8	7/16	3-1/4	std	M42	B-1206	10908
13/64	3/8	1/2	3-1/4	std	M42	B-1206-1/2	10910
7/32	3/8	21/64	2-3/4	stub	M42	BS-1207	11110
7/32	3/8	1/2	3-1/4	std	M42	B-1207	10912
15/64	3/8	1/2	3-3/8	std	M42	B-1207-1/2	10914
1/4	3/8	3/8	2-3/4	stub	M42	BS-1208	11112
1/4	3/8	1/2	3-3/8	std	M42	B-1208	10916
17/64	3/8	9/16	3-3/8	std	M42	B-1208-1/2	10918
9/32	3/8	9/16	3-3/8	std	M42	B-1209	10920
19/64	3/8	9/16	3-1/2	std	M42	B-1209-1/2	10922
5/16	3/8	9/16	3-1/2	std	M42	B-1210	10924
21/64	3/8	9/16	3-1/2	std	M42	B-1210-1/2	10926
11/32	3/8	9/16	3-1/2	std	M42	B-1211	10928

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • DOUBLE END CENTER CUTTING END MILLS



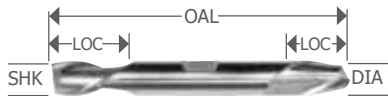
SERIES: B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
23/64	3/8	9/16	3-1/2	std	M42	B-1211-1/2	10930
3/8	3/8	9/16	3-1/2	std	M42	B-1212	10932
25/64	1/2	13/16	4-1/8	std	M42	B-1612-1/2	10934
13/32	1/2	13/16	4-1/8	std	M42	B-1613	10936
27/64	1/2	13/16	4-1/8	std	M42	B-1613-1/2	10938
7/16	1/2	13/16	4-1/8	std	M42	B-1614	10940
29/64	1/2	13/16	4-1/8	std	M42	B-1614-1/2	10942
15/32	1/2	13/16	4-1/8	std	M42	B-1615	10944
31/64	1/2	13/16	4-1/8	std	M42	B-1615-1/2	10946
1/2	1/2	13/16	4-1/8	std	M42	B-1616	10948
17/32	5/8	1-1/8	5	std	M42	B-2017	10950
9/16	5/8	1-1/8	5	std	M42	B-2018	10952
19/32	5/8	1-1/8	5	std	M42	B-2019	10954
5/8	5/8	1-1/8	5	std	M42	B-2020	10956
21/32	3/4	1-5/16	5	std	M42	B-2421	10958
11/16	3/4	1-5/16	5	std	M42	B-2422	10960
23/32	3/4	1-5/16	5	std	M42	B-2423	10962
3/4	3/4	1-5/16	5	std	M42	B-2424	10964
25/32	7/8	1-9/16	5-1/2	std	M42	B-2825	10966
13/16	7/8	1-9/16	5-1/2	std	M42	B-2826	10968
7/8	7/8	1-9/16	5-1/2	std	M42	B-2828	10972
15/16	1	1-5/8	5-7/8	std	M42	B-3230	10976
1	1	1-5/8	5-7/8	std	M42	B-3232	10980

If shank and mill diameters are the same, tolerance is +.0000/-0.0025

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • DE CC LEFT HAND SPIRAL, LEFT HAND CUT END MILL



HSSCo
M42



BRIGHT

+0.0000
-0.0015

Square



HRC
<48



SERIES: XB

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/8	3/8	3/8	3-1/16	std	M42	XB-1204	12235
3/16	3/8	7/16	3-1/4	std	M42	XB-1206	12750
1/4	3/8	1/2	3-3/8	std	M42	XB-1208	12752
5/16	3/8	9/16	3-1/2	std	M42	XB-1210	12754
3/8	3/8	9/16	3-1/2	std	M42	XB-1212	12756
7/16	1/2	13/16	4-1/8	std	M42	XB-1614	12758
1/2	1/2	13/16	4-1/8	std	M42	XB-1616	12760

Tolerance +.0000/-0.0015. If shank and mill diameters are the same, tolerance is +.0000/-0.0025

2 FLUTE • DOUBLE END CENTER CUTTING METRIC/INCH END MILL



HSSCo
M42



BRIGHT

+0.0000
-0.0015

Square



HRC
<48



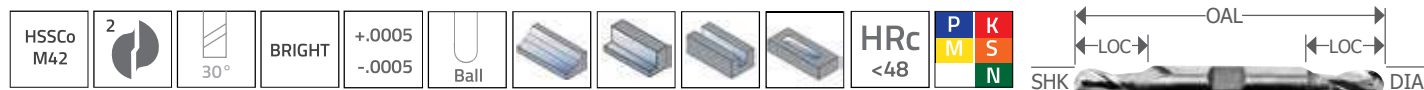
SERIES: B- _M_

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
3mm	3/8	3/8	3-1/16	std	M42	B-12M3	12922
4mm	3/8	7/16	3-1/8	std	M42	B-12M4	12924
5mm	3/8	1/2	3-1/4	std	M42	B-12M5	12926
6mm	3/8	1/2	3-3/8	std	M42	B-12M6	12928
7mm	3/8	9/16	3-3/8	std	M42	B-12M7	12930
8mm	3/8	9/16	3-1/2	std	M42	B-12M8	12932
9mm	3/8	9/16	3-1/2	std	M42	B-12M9	12934
10mm	1/2	13/16	4-1/8	std	M42	B-16M10	12936
11mm	1/2	13/16	4-1/8	std	M42	B-16M11	12938
12mm	1/2	13/16	4-1/8	std	M42	B-16M12	12940
13mm	5/8	1-1/8	5	std	M42	B-20M13	12942
14mm	5/8	1-1/8	5	std	M42	B-20M14	12944
15mm	5/8	1-1/8	5	std	M42	B-20M15	12946
16mm	3/4	1-5/16	5	std	M42	B-24M16	12948
18mm	3/4	1-5/16	5	std	M42	B-24M18	12950
20mm	7/8	1-9/16	5-1/2	std	M42	B-28M20	12952
22mm	7/8	1-9/16	5-1/2	std	M42	B-28M22	12954

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

2 FLUTE • DOUBLE END BALL NOSE CENTER CUTTING END MILLS



SERIES: B-__-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/32	3/16	3/64	2	stub	M42	BS-601-B	11114
1/32	3/16	3/32	2-1/4	std	M42	B-601-B	10982
3/64	3/16	1/16	2	stub	M42	BS-601-1/2-B	11116
3/64	3/16	9/64	2-1/4	std	M42	B-601-1/2-B	10984
1/16	3/16	3/32	2	stub	M42	BS-602-B	11118
1/16	3/16	3/16	2-1/4	std	M42	B-602-B	10986
1/16	3/16	7/32	2-1/2	long	M42	B-602-LB	11058
5/64	3/16	1/8	2	stub	M42	BS-602-1/2-B	11120
5/64	3/16	15/64	2-1/4	std	M42	B-602-1/2-B	10988
3/32	3/16	9/64	2	stub	M42	BS-603-B	11122
3/32	3/16	9/32	2-1/4	std	M42	B-603-B	10990
3/32	3/16	1/2	2-5/8	long	M42	B-603-LB	11060
7/64	3/16	5/32	2	stub	M42	BS-603-1/2-B	11124
7/64	3/16	21/64	2-1/4	std	M42	B-603-1/2-B	10992
1/8	3/16	3/16	2	stub	M42	BS-604-B	11126
1/8	3/16	3/8	2-1/4	std	M42	B-604-B	10994
1/8	3/16	3/4	3-1/8	long	M42	B-604-LB	11062
9/64	3/16	7/32	2	stub	M42	BS-604-1/2-B	11128
9/64	3/16	13/32	2-1/4	std	M42	B-604-1/2-B	10996
5/32	3/16	15/64	2	stub	M42	BS-605-B	11130
5/32	3/16	7/16	2-1/4	std	M42	B-605-B	10998
5/32	3/16	7/8	3-1/4	long	M42	B-605-LB	11064
11/64	3/16	1/4	2	stub	M42	BS-605-1/2-B	11132
11/64	3/16	1/2	2-1/4	std	M42	B-605-1/2-B	11000
3/16	3/16	9/32	2	stub	M42	BS-606-B	11134
3/16	3/16	1/2	2-1/4	std	M42	B-606-B	11002
3/16	3/16	1	3-3/8	long	M42	B-606-LB	11066

If shank and mill diameters are the same, tolerance is +.0000/-.0025

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
3/32	3/8	5/16	3-1/16	std	M42	B-1203-B	11004
1/8	3/8	3/8	3-1/16	std	M42	B-1204-B	11006
5/32	3/8	7/16	3-1/8	std	M42	B-1205-B	11008
3/16	3/8	7/16	3-1/4	std	M42	B-1206-B	11010
7/32	3/8	1/2	3-1/4	std	M42	B-1207-B	11012
1/4	3/8	1/2	3-3/8	std	M42	B-1208-B	11014
9/32	3/8	9/16	3-3/8	std	M42	B-1209-B	11016
5/16	3/8	9/16	3-1/2	std	M42	B-1210-B	11018
11/32	3/8	9/16	3-1/2	std	M42	B-1211-B	11020
3/8	3/8	9/16	3-1/2	std	M42	B-1212-B	11022
13/32	1/2	13/16	4-1/8	std	M42	B-1613-B	11024
7/16	1/2	13/16	4-1/8	std	M42	B-1614-B	11026
15/32	1/2	13/16	4-1/8	std	M42	B-1615-B	11028
1/2	1/2	13/16	4-1/8	std	M42	B-1616-B	11030
9/16	5/8	1-1/8	5	std	M42	B-2018-B	11032
5/8	5/8	1-1/8	5	std	M42	B-2020-B	11034
11/16	3/4	1-5/16	5	std	M42	B-2422-B	11036
3/4	3/4	1-5/16	5	std	M42	B-2424-B	11038

If shank and mill diameters are the same, tolerance is +.0000/-.0025

GENERAL PURPOSE COBALT & HSS END MILLS

3 FLUTE • DOUBLE END CENTER CUTTING END MILL



HSSCo
M42



BRIGHT

+0.0005
-0.0015



HRc
<48



SERIES: F

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
3/32	3/16	5/32	2	stub	M42	FS-603	12564
3/32	3/16	5/16	2-1/4	std	M42	F-603	12428
1/8	3/16	3/16	2	stub	M42	FS-604	12566
1/8	3/16	3/8	2-1/4	std	M42	F-604	12430
3/16	3/16	1/2	2-1/4	std	M42	F-606	12434
5/64	3/8	5/16	3-1/16	std	M42	F-1202-1/2	12436
3/32	3/8	5/16	3-1/16	std	M42	F-1203	12438
7/64	3/8	3/8	3-1/16	std	M42	F-1203-1/2	12440
1/8	3/8	3/8	3-1/16	std	M42	F-1204	12442
9/64	3/8	7/16	3-1/8	std	M42	F-1204-1/2	12444
5/32	3/8	7/16	3-1/8	std	M42	F-1205	12446
11/64	3/8	1/2	3-1/8	std	M42	F-1205-1/2	12448
3/16	3/8	1/2	3-1/4	std	M42	F-1206	12450
13/64	3/8	9/16	3-1/4	std	M42	F-1206-1/2	12452
7/32	3/8	9/16	3-1/4	std	M42	F-1207	12454
15/64	3/8	5/8	3-3/8	std	M42	F-1207-1/2	12456
1/4	3/8	5/8	3-3/8	std	M42	F-1208	12458
17/64	3/8	11/16	3-3/8	std	M42	F-1208-1/2	12460
9/32	3/8	11/16	3-3/8	std	M42	F-1209	12462
19/64	3/8	3/4	3-1/2	std	M42	F-1209-1/2	12464
5/16	3/8	3/4	3-1/2	std	M42	F-1210	12466
21/64	3/8	3/4	3-1/2	std	M42	F-1210-1/2	12468
11/32	3/8	3/4	3-1/2	std	M42	F-1211	12470
23/64	3/8	3/4	3-1/2	std	M42	F-1211-1/2	12472
3/8	3/8	3/4	3-1/2	std	M42	F-1212	12474
25/64	1/2	1	4-1/8	std	M42	F-1612-1/2	12476
13/32	1/2	1	4-1/8	std	M42	F-1613	12478
27/64	1/2	1	4-1/8	std	M42	F-1613-1/2	12480
7/16	1/2	1	4-1/8	std	M42	F-1614	12482
29/64	1/2	1	4-1/8	std	M42	F-1614-1/2	12484
15/32	1/2	1	4-1/8	std	M42	F-1615	12486
1/2	1/2	1	4-1/8	std	M42	F-1616	12490
17/32	5/8	1-3/8	5	std	M42	F-2017	12492
9/16	5/8	1-3/8	5	std	M42	F-2018	12494
5/8	5/8	1-3/8	5	std	M42	F-2020	12498
3/4	3/4	1-5/8	5-5/8	std	M42	F-2424	12506

If shank and mill diameters are the same, tolerance is +.0000/-0.0025



3 FLUTE • DOUBLE END CENTER CUTTING END MILL

HSSCo
M42



BRIGHT

+0.0005
-0.0015



HRc
<48



SERIES: F-__-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
3/32	3/8	5/16	3-1/16	std	M42	F-1203-B	12524
1/8	3/8	3/8	3-1/16	std	M42	F-1204-B	12526
3/16	3/8	1/2	3-1/4	std	M42	F-1206-B	12530
1/4	3/8	5/8	3-3/8	std	M42	F-1208-B	12534
5/16	3/8	3/4	3-1/2	std	M42	F-1210-B	12538
3/8	3/8	3/4	3-1/2	std	M42	F-1212-B	12542
1/2	1/2	1	4-1/8	std	M42	F-1616-B	12546

If shank and mill diameters are the same, tolerance is +.0000/-0.0025

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

4 FLUTE • DOUBLE END CENTER CUTTING END MILL



SERIES: D

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/16	3/16	3/32	2	stub	M42	DS-602	11992
1/16	3/16	3/16	2-1/4	std	M42	D-602	11800
1/16	3/16	7/32	2-1/2	long	M42	D-602-L	11902
5/64	3/16	1/8	2	stub	M42	DS-602-1/2	11994
5/64	3/16	15/64	2-1/4	std	M42	D-602-1/2	11802
3/32	3/16	9/64	2	stub	M42	DS-603	11996
3/32	3/16	9/32	2-1/4	std	M42	D-603	11804
3/32	3/16	1/2	2-5/8	long	M42	D-603-L	11904
7/64	3/16	5/32	2	stub	M42	DS-603-1/2	11998
7/64	3/16	21/64	2-1/4	std	M42	D-603-1/2	11806
1/8	3/16	3/16	2	stub	M42	DS-604	12000
1/8	3/16	3/8	2-1/4	std	M42	D-604	11808
1/8	3/16	3/4	3-1/8	long	M42	D-604-L	11906
9/64	3/16	3/16	2	stub	M42	DS-604-1/2	12002
9/64	3/16	27/64	2-1/4	std	M42	D-604-1/2	11810
5/32	3/16	15/64	2	stub	M42	DS-605	12004
5/32	3/16	7/16	2-1/4	std	M42	D-605	11812
5/32	3/16	7/8	3-1/4	long	M42	D-605-L	11908
11/64	3/16	1/4	2	stub	M42	DS-605-1/2	12006
11/64	3/16	33/64	2-1/4	std	M42	D-605-1/2	11814
3/16	3/16	9/32	2	stub	M42	DS-606	12008
3/16	3/16	1/2	2-1/4	std	M42	D-606	11816
3/16	3/16	1	3-3/8	long	M42	D-606-L	11910

If shank and mill diameters are the same, tolerance is +.0000/-0.0025

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

4 FLUTE • DOUBLE END CENTER CUTTING END MILL



HSSCo
M42



BRIGHT

+0.0000
-0.0015



HRC
<48



SERIES: DD

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
7/64	3/8	3/8	3-1/16	std	M42	DD-1203-1/2	11818
1/8	3/8	3/16	2-3/4	stub	M42	DDS-1204	12010
1/8	3/8	3/8	3-1/16	std	M42	DD-1204	11820
1/8	3/8	1/2	3-1/4	med	M42	DD-1204-M	11912
1/8	3/8	5/8	3-9/16	long	M42	DD-1204-L	11914
9/64	3/8	7/16	3-1/8	std	M42	DD-1204-1/2	11822
5/32	3/8	15/64	2-3/4	stub	M42	DDS-1205	12012
5/32	3/8	7/16	3-1/8	std	M42	DD-1205	11824
11/64	3/8	1/2	3-1/8	std	M42	DD-1205-1/2	11826
3/16	3/8	9/32	2-3/4	stub	M42	DDS-1206	12014
3/16	3/8	1/2	3-1/4	std	M42	DD-1206	11828
3/16	3/8	7/8	4-1/8	long	M42	DD-1206-L	11916
13/64	3/8	9/16	3-1/4	std	M42	DD-1206-1/2	11830
7/32	3/8	21/64	2-3/4	stub	M42	DDS-1207	12016
7/32	3/8	9/16	3-1/4	std	M42	DD-1207	11832
15/64	3/8	5/8	3-3/8	std	M42	DD-1207-1/2	11834
1/4	3/8	3/8	2-3/4	stub	M42	DDS-1208	12018
1/4	3/8	5/8	3-3/8	std	M42	DD-1208	11836
17/64	3/8	11/16	3-3/8	std	M42	DD-1208-1/2	11838
9/32	3/8	11/16	3-3/8	std	M42	DD-1209	11840
19/64	3/8	3/4	3-1/2	std	M42	DD-1209-1/2	11842
5/16	3/8	3/4	3-1/2	std	M42	DD-1210	11844
21/64	3/8	3/4	3-1/2	std	M42	DD-1210-1/2	11846
11/32	3/8	3/4	3-1/2	std	M42	DD-1211	11848
23/64	3/8	3/4	3-1/2	std	M42	DD-1211-1/2	11850
3/8	3/8	3/4	3-1/2	std	M42	DD-1212	11852
25/64	1/2	1	4-1/8	std	M42	DD-1612-1/2	11854
13/32	1/2	1	4-1/8	std	M42	DD-1613	11856
27/64	1/2	1	4-1/8	std	M42	DD-1613-1/2	11858
7/16	1/2	1	4-1/8	std	M42	DD-1614	11860
29/64	1/2	1	4-1/8	std	M42	DD-1614-1/2	11862
15/32	1/2	1	4-1/8	std	M42	DD-1615	11864
31/64	1/2	1	4-1/8	std	M42	DD-1615-1/2	11866
1/2	1/2	1	4-1/8	std	M42	DD-1616	11868
17/32	5/8	1-3/8	5	std	M42	DD-2017	11870
9/16	5/8	1-3/8	5	std	M42	DD-2018	11872
19/32	5/8	1-3/8	5	std	M42	DD-2019	11874
5/8	5/8	1-3/8	5	std	M42	DD-2020	11876
3/4	3/4	1-5/8	5-5/8	std	M42	DD-2424	11944
7/8	7/8	1-7/8	6-1/8	std	M42	DD-2828	11946
1	1	1-7/8	6-3/8	std	M42	DD-3232	11948

If shank and mill diameters are the same, tolerance is +.0000/-0.0025

GENERAL PURPOSE COBALT & HSS END MILLS

[Back to Index](#)

4 FLUTE • DOUBLE END NON-CENTER CUTTING END MILL



SERIES: D

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
21/32	3/4	1-5/8	5-5/8	std	M42	D-2421	11878
11/16	3/4	1-5/8	5-5/8	std	M42	D-2422	11880
3/4	3/4	1-5/8	5-5/8	std	M42	D-2424	11884
13/16	7/8	1-7/8	6-1/8	std	M42	D-2826	11888
7/8	7/8	1-7/8	6-1/8	std	M42	D-2828	11892
1	1	1-7/8	6-3/8	std	M42	D-3232	11900

If shank and mill diameters are the same, tolerance is $\pm .0000/\pm .0025$

4 FLUTE • DOUBLE END CENTER CUTTING METRIC/INCH END MILL

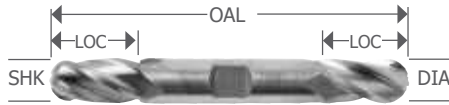


SERIES: DD- _M_

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
3mm	3/8	3/8	3-1/16	std	M42	DD-12M3	13026
4mm	3/8	7/16	3-1/8	std	M42	DD-12M4	13028
5mm	3/8	9/16	3-1/4	std	M42	DD-12M5	13030
6mm	3/8	5/8	3-3/8	std	M42	DD-12M6	13032
7mm	3/8	11/16	3-3/8	std	M42	DD-12M7	13034
8mm	3/8	3/4	3-1/2	std	M42	DD-12M8	13036
9mm	3/8	3/4	3-1/2	std	M42	DD-12M9	13038
10mm	1/2	1	4-1/8	std	M42	DD-16M10	13040
11mm	1/2	1	4-1/8	std	M42	DD-16M11	13042
12mm	1/2	1	4-1/8	std	M42	DD-16M12	13044
13mm	5/8	1-3/8	5	std	M42	DD-20M13	13046
14mm	5/8	1-3/8	5	std	M42	DD-20M14	13048
15mm	5/8	1-3/8	5	std	M42	DD-20M15	13050
16mm	3/4	1-5/8	5-5/8	std	M42	DD-24M16	13052
18mm	3/4	1-5/8	5-5/8	std	M42	DD-24M18	13054
20mm	7/8	1-7/8	6-1/8	std	M42	DD-28M20	13056
22mm	7/8	1-7/8	6-1/8	std	M42	DD-28M22	13058

GENERAL PURPOSE COBALT & HSS END MILLS

4 FLUTE • DOUBLE END BALL NOSE END MILL



SERIES: DD-__-B

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/8	3/8	3/8	3-1/8	std	M42	DD-1204-B	11950
5/32	3/8	7/16	3-1/8	std	M42	DD-1205-B	11952
3/16	3/8	1/2	3-1/4	std	M42	DD-1206-B	11954
7/32	3/8	9/16	3-1/4	std	M42	DD-1207-B	11956
1/4	3/8	5/8	3-3/8	std	M42	DD-1208-B	11958
9/32	3/8	11/16	3-3/8	std	M42	DD-1209-B	11960
5/16	3/8	3/4	3-1/2	std	M42	DD-1210-B	11962
11/32	3/8	3/4	3-1/2	std	M42	DD-1211-B	11964
3/8	3/8	3/4	3-1/2	std	M42	DD-1212-B	11966
1/2	1/2	1	4-1/8	std	M42	DD-1616-B	11968
5/8	5/8	1-3/8	5	std	M42	DD-2020-B	11970
3/4	3/4	1-5/8	5-5/8	std	M42	DD-2424-B	11972
1	1	1-7/8	6-3/8	std	M42	DD-3232-B	11976

If shank and mill diameter are the same, tolerance is +.000/-0.0025

4 FLUTE • DOUBLE END CENTER CUTTING LEFT HAND SPIRAL/CUT END MILL



SERIES: XD

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP
1/8	3/8	7/16	3-1/16	std	M42	XD-1204	12543
3/16	3/8	1/2	3-1/4	std	M42	XD-1206	12772
1/4	3/8	5/8	3-3/8	std	M42	XD-1208	12774
5/16	3/8	3/4	3-1/2	std	M42	XD-1210	12776
3/8	3/8	3/4	3-1/2	std	M42	XD-1212	12778
7/16	1/2	1	4-1/8	std	M42	XD-1614	12780
1/2	1/2	1	4-1/8	std	M42	XD-1616	12782
9/16	5/8	1-3/8	5	std	M42	XD-2018	12784
5/8	5/8	1-3/8	5	std	M42	XD-2020	12786
3/4	3/4	1-5/8	5-5/8	std	M42	XD-2424	12790

Tolerance +.002/-0.000. If shank and mill diameters are the same, tolerance is +.0000/-0.0025