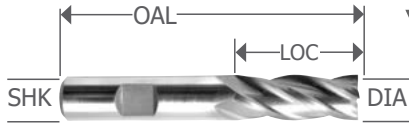


GENERAL PURPOSE COBALT & HSS END MILLS



MULTI FLUTE • CENTER CUTTING END MILLS

HSSCo M42	4	30°	Bright TiCN	+0.0015 -0.0000	Square					HRC <48	<table border="1"><tr><td>P</td><td>K</td></tr><tr><td>M</td><td>S</td></tr><tr><td>N</td><td>N</td></tr></table>	P	K	M	S	N	N
P	K																
M	S																
N	N																

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

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