

2018 GENERAL PURPOSE CATALOG



Premium Solid Carbide & Cobalt HSS End Mills, Drills, & Cutting Tools

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Routers & Corner Round



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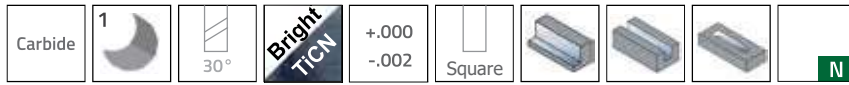
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Double End Ball Nose Split Blanks
Series: **Carbide Blanks**

SPECIAL USE CARBIDE END MILLS

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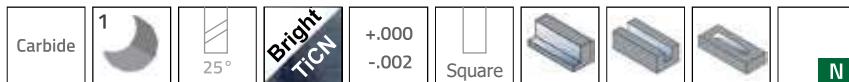
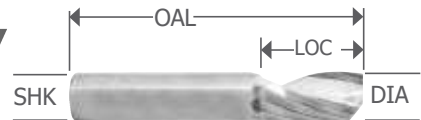
1 FLUTE • ROUTERS FOR ALUMINUM



SERIES: ARMG

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	TICN EDP
1/16	1/8	1/4	1-1/2	std	ARMG-402	12855	42855
1/16	1/4	1/4	2	std	ARMG-802	12865	42865
1/8	1/8	1/4	1-1/2	stub	ARMG-404-S	12857	42857
1/8	1/8	1/2	1-1/2	std	ARMG-404	12859	42859
1/8	1/4	1/4	2	stub	ARMG-804-S	12867	42867
1/8	1/4	1/2	2	std	ARMG-804	12869	42869
3/16	3/16	3/8	2	stub	ARMG-606-S	12861	42861
3/16	1/4	1/2	2	stub	ARMG-806-S	12873	42873
3/16	3/16	5/8	2	std	ARMG-606	12863	42863
3/16	1/4	5/8	2	std	ARMG-806	12875	42875
5/32	1/4	5/8	2	std	ARMG-805	12871	42871
7/32	1/4	3/4	2-1/2	std	ARMG-807	12877	42877
1/4	1/4	3/8	2-1/2	stub	ARMG-808-S	12879	42879
1/4	1/4	3/4	2-1/2	std	ARMG-808	12881	42881
1/4	1/4	1-1/4	3	long	ARMG-808-L	12883	42883
3/8	3/8	1-1/8	3	std	ARMG-1212	12885	42885
1/2	1/2	1	3	std	ARMG-1616	12887	42887
1/2	1/2	1-1/2	3-1/2	med	ARMG-1616-M	12889	42889

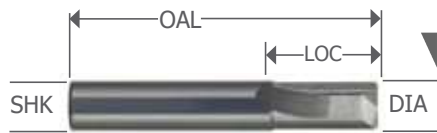
1 FLUTE • ROUTERS FOR PLASTIC



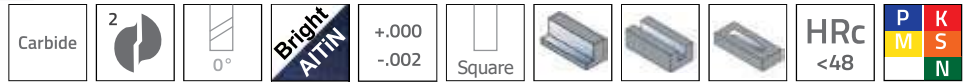
SERIES: PRMG

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	TICN EDP
1/16	1/8	1/4	1-1/2	std	PRMG-402	12819	42819
1/16	1/4	1/4	2	std	PRMG-802	12829	42829
1/8	1/8	1/4	1-1/2	stub	PRMG-404-S	12821	42821
1/8	1/4	1/4	2	stub	PRMG-804-S	12831	42831
1/8	1/8	1/2	1-1/2	std	PRMG-404	12823	42823
1/8	1/4	1/2	2	std	PRMG-804	12833	42833
3/16	3/16	3/8	2	stub	PRMG-606-S	12825	42825
3/16	1/4	1/2	2	stub	PRMG-806-S	12837	42837
3/16	3/16	5/8	2	std	PRMG-606	12827	42827
3/16	1/4	5/8	2	std	PRMG-806	12839	42839
5/32	1/4	5/8	2	std	PRMG-805	12835	42835
7/32	1/4	3/4	2-1/2	std	PRMG-807	12841	42841
1/4	1/4	3/8	2-1/2	stub	PRMG-808-S	12843	42843
1/4	1/4	3/4	2-1/2	std	PRMG-808	12845	42845
1/4	1/4	1-1/4	3	long	PRMG-808-L	12847	42847
3/8	3/8	1-1/8	3	std	PRMG-1212	12849	42849
1/2	1/2	1	3	std	PRMG-1616	12851	42851
1/2	1/2	1-1/2	3-1/2	med	PRMG-1616-M	12853	42853

SPECIAL USE CARBIDE END MILLS



2 FLUTE • STRAIGHT FLUTE END MILLS

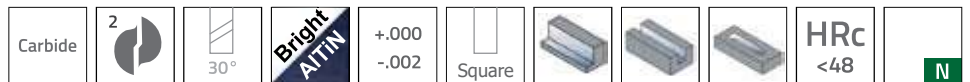


SERIES: SAMG

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
1/16	1/8	3/16	1-1/2	std	SAMG-402	11493	51493
3/32	1/8	9/32	1-1/2	std	SAMG-403	11495	51495
1/8	1/8	1/2	1-1/2	std	SAMG-404	11497	51497
5/32	3/16	1/2	2	std	SAMG-605	11499	51499
3/16	3/16	5/8	2	std	SAMG-606	11501	51501
7/32	1/4	5/8	2-1/2	std	SAMG-807	11503	51503
1/4	1/4	3/4	2-1/2	std	SAMG-808	11505	51505
5/16	5/16	13/16	2-1/2	std	SAMG-1010	11507	51507
3/8	3/8	1	2-1/2	std	SAMG-1212	11509	51509
7/16	7/16	1	2-3/4	std	SAMG-1414	11511	51511
1/2	1/2	1	3	std	SAMG-1616	11513	51513

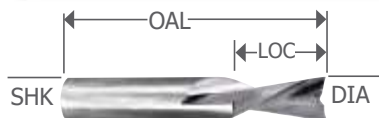


2 FLUTE • WOOD ROUTER - UP CUT (RHS/RHC)



SERIES: WRUMG

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
1/8	1/8	1/2	1-1/2	std	WRUMG-404	10693	50693
1/8	1/4	1/2	2-1/2	std	WRUMG-804	10695	50695
3/16	1/4	5/8	2-1/2	std	WRUMG-806	10697	50697
1/4	1/4	3/4	2-1/2	std	WRUMG-808	10699	50699
1/4	1/4	1-1/8	3	long	WRUMG-808-L	10701	50701
5/16	5/16	13/16	2-1/2	std	WRUMG-1010	10703	50703
3/8	3/8	7/8	2-1/2	std	WRUMG-1212	10705	50705
3/8	3/8	1-1/4	3	long	WRUMG-1212-L	10707	50707
1/2	1/2	1	3	std	WRUMG-1616	10709	50709
1/2	1/2	2	4	long	WRUMG-1616-L	10711	50711



2 FLUTE • WOOD ROUTER - DOWN CUT (LHS/RHC)



SERIES: WRDMG

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
1/8	1/8	1/2	1-1/2	std	WRDMG-404	10713	50713
1/8	1/4	1/2	2-1/2	std	WRDMG-804	10715	50715
3/16	1/4	5/8	2-1/2	std	WRDMG-806	10717	50717
1/4	1/4	3/4	2-1/2	std	WRDMG-808	10719	50719
1/4	1/4	1-1/8	3	long	WRDMG-808-L	10721	50721
5/16	5/16	13/16	2-1/2	std	WRDMG-1010	10723	50723
3/8	3/8	7/8	2-1/2	std	WRDMG-1212	10725	50725
3/8	3/8	1-1/4	3	long	WRDMG-1212-L	10727	50727
1/2	1/2	1	3	std	WRDMG-1616	10729	50729
1/2	1/2	2	4	long	WRDMG-1616-L	10731	50731

SPECIAL USE CARBIDE END MILLS

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2 FLUTE • DIE SINKING END MILLS



SERIES: AMGDS

DEG/ SIDE	TIP RADIUS	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
3°	.0156	1/8	7/8	2	std	AMGDS-401-3B	16998	56998
3°	.0313	1/8	9/16	2	std	AMGDS-402-3B	16999	56999
3°	.0469	3/16	7/8	2	std	AMGDS-603-3B	17607	57607
3°	.0625	1/4	1	2-1/2	std	AMGDS-804-3B	17608	57608
3°	.0781	5/16	1	2-1/2	std	AMGDS-1005-3B	17609	57609
3°	.0938	3/8	1	2-1/2	std	AMGDS-1206-3B	17610	57610
3°	.1094	7/16	1	2-3/4	std	AMGDS-1407-3B	17611	57611
3°	.1250	1/2	1	3	std	AMGDS-1608-3B	17612	57612

DEG/ SIDE	TIP RADIUS	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
5°	.0156	1/8	1/2	2	std	AMGDS-401-5B	17613	57613
5°	.0313	1/8	5/16	2	std	AMGDS-402-5B	17614	57614
5°	.0469	3/16	1/2	2	std	AMGDS-603-5B	17615	57615
5°	.0625	1/4	11/16	2-1/2	std	AMGDS-804-5B	17616	57616
5°	.0781	5/16	7/8	2-1/2	std	AMGDS-1005-5B	17617	57617
5°	.0938	3/8	1	2-1/2	std	AMGDS-1206-5B	17618	57618
5°	.1094	7/16	1	2-3/4	std	AMGDS-1407-5B	17619	57619
5°	.1250	1/2	1	3	std	AMGDS-1608-5B	17620	57620

DEG/ SIDE	TIP RADIUS	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
7°	.0156	1/8	3/8	1-1/2	std	AMGDS-401-7B	17621	57621
7°	.0313	1/8	1/4	1-1/2	std	AMGDS-402-7B	17622	57622
7°	.0469	3/16	3/8	2	std	AMGDS-603-7B	17623	57623
7°	.0625	1/4	1/2	2-1/2	std	AMGDS-804-7B	17624	57624
7°	.0781	5/16	5/8	2-1/2	std	AMGDS-1005-7B	17625	57625
7°	.0938	3/8	3/4	2-1/2	std	AMGDS-1206-7B	17626	57626
7°	.1094	7/16	7/8	2-3/4	std	AMGDS-1407-7B	17627	57627
7°	.1250	1/2	1	3	std	AMGDS-1608-7B	17628	57628

DEG/ SIDE	TIP RADIUS	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
10°	.0156	1/8	1/4	1-1/2	std	AMGDS-401-10B	17629	57629
10°	.0313	1/8	3/16	1-1/2	std	AMGDS-402-10B	17630	57630
10°	.0469	3/16	1/4	2	std	AMGDS-603-10B	17631	57631
10°	.0625	1/4	5/16	2-1/2	std	AMGDS-804-10B	17632	57632
10°	.0781	5/16	7/16	2-1/2	std	AMGDS-1005-10B	17633	57633
10°	.0938	3/8	9/16	2-1/2	std	AMGDS-1206-10B	17634	57634
10°	.1094	7/16	5/8	2-3/4	std	AMGDS-1407-10B	17635	57635
10°	.1250	1/2	11/16	3	std	AMGDS-1608-10B	17636	57636

SPECIAL USE CARBIDE END MILLS



3 FLUTE • TAPERED END MILLS

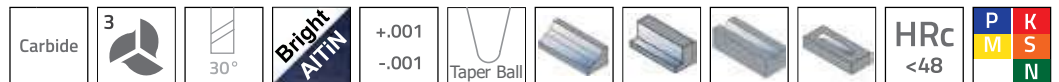


SERIES: EMG-__-_T

TAPER/ SIDE	TIP DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
1°	1/8	1/4	1-1/2	3	std	EMG-804-1T	10257	50257
1°	3/16	3/8	1-3/4	3-1/2	std	EMG-1206-1T	10259	50259
1° 30'	1/8	1/4	1-1/2	3	std	EMG-804-1.5T	10261	50261
1° 30'	3/16	3/8	1-3/4	3-1/2	std	EMG-1206-1.5T	10263	50263
2°	1/8	1/4	1	3	std	EMG-804-2T	10265	50265
2°	3/16	3/8	1-3/4	3-1/2	std	EMG-1206-2T	10267	50267
2°	1/4	1/2	2	4	std	EMG-1608-2T	10269	50269
3°	1/8	1/4	1	3	std	EMG-804-3T	10271	50271
3°	5/32	3/8	1-3/4	3-1/2	std	EMG-1205-3T	10273	50273
3°	1/4	1/2	2	4	std	EMG-1608-3T	10275	50275
5°	1/8	1/4	3/4	3	std	EMG-804-5T	10277	50277
5°	1/8	3/8	1-1/2	3-1/2	std	EMG-1204-5T	10279	50279
5°	1/4	1/2	1-1/4	4	std	EMG-1608-5T	10281	50281
7°	1/8	1/4	1/2	3	std	EMG-804-7T	10283	50283
7°	5/32	3/8	3/4	3-1/2	std	EMG-1205-7T	10285	50285
7°	3/16	1/2	1-1/4	4	std	EMG-1606-7T	10287	50287



3 FLUTE • TAPERED BALL NOSE END MILLS



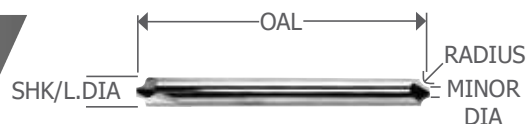
SERIES: EMG-__-_TB

TAPER/ SIDE	TIP DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
1°	1/8	1/4	1-1/2	3	std	EMG-804-1TB	10289	50289
1°	3/16	3/8	1-3/4	3-1/2	std	EMG-1206-1TB	10291	50291
1° 30'	1/8	1/4	1-1/2	3	std	EMG-804-1.5TB	10293	50293
1° 30'	3/16	3/8	1-3/4	3-1/2	std	EMG-1206-1.5TB	10295	50295
2°	1/8	1/4	1	3	std	EMG-804-2TB	10297	50297
2°	3/16	3/8	1-3/4	3-1/2	std	EMG-1206-2TB	10299	50299
2°	1/4	1/2	2	4	std	EMG-1608-2TB	10301	50301
3°	1/8	1/4	1	3	std	EMG-804-3TB	10303	50303
3°	5/32	3/8	1-3/4	3-1/2	std	EMG-1205-3TB	10305	50305
3°	1/4	1/2	2	4	std	EMG-1608-3TB	10307	50307
5°	1/8	1/4	3/4	3	std	EMG-804-5TB	10309	50309
5°	1/8	3/8	1-1/2	3-1/2	std	EMG-1204-5TB	10311	50311
5°	1/4	1/2	1-1/4	4	std	EMG-1608-5TB	10313	50313
7°	1/8	1/4	1/2	3	std	EMG-804-7TB	10315	50315
7°	5/32	3/8	3/4	3-1/2	std	EMG-1205-7TB	10317	50317
7°	3/16	1/2	1-1/4	4	std	EMG-1606-7TB	10319	50319

SPECIAL USE CARBIDE END MILLS

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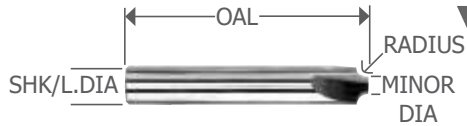
2 FLUTE • DOUBLE END CORNER ROUNDERS



SERIES: BRMG

RADIUS	MINOR DIA	SHK/ LARGE DIA	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
0.010	0.047	1/8	1-1/2	stub	BRMG-4010-S	11178	51178
0.010	0.105	1/8	1-1/2	std	BRMG-4010	16293	56293
0.015	0.047	1/8	1-1/2	stub	BRMG-4015-S	11179	51179
0.015	0.095	1/8	1-1/2	std	BRMG-4015	16294	56294
0.020	0.047	1/8	1-1/2	stub	BRMG-4020-S	11181	51181
0.020	0.085	1/8	1-1/2	std	BRMG-4020	16295	56295
0.025	0.075	1/8	1-1/2	std	BRMG-4025	16296	56296
0.030	0.047	1/8	1-1/2	stub	BRMG-4030-S	11703	51703
0.031	0.047	1/8	1-1/2	stub	BRMG-4031-S	11182	51182
0.031	0.063	1/8	1-1/2	std	BRMG-4031	16297	56297
0.035	0.055	1/8	1-1/2	std	BRMG-4035	16298	56298
0.039	0.047	1/8	1-1/2	std	BRMG-4039	16299	56299
0.047	0.047	3/16	2	stub	BRMG-6047-S	11183	51183
0.047	0.094	3/16	2	std	BRMG-6047	16300	56300
0.050	0.088	3/16	2	std	BRMG-6050	16301	56301
0.055	0.078	3/16	2	std	BRMG-6055	16302	56302
0.062	0.047	3/16	2	stub	BRMG-6062-S	11185	51185
0.062	0.064	3/16	2	std	BRMG-6062	16303	56303
0.072	0.106	1/4	2-1/2	std	BRMG-8072	16304	56304
0.078	0.047	1/4	2	stub	BRMG-8078-S	11186	51186
0.078	0.094	1/4	2-1/2	std	BRMG-8078	16305	56305
0.093	0.064	1/4	2-1/2	std	BRMG-8093	16306	56306
0.094	0.047	1/4	2	stub	BRMG-8094-S	11187	51187
0.100	0.050	1/4	2-1/2	std	BRMG-8100	16307	56307
0.109	0.095	5/16	2-1/2	std	BRMG-10109	16308	56308
0.118	0.077	5/16	2-1/2	std	BRMG-10118	16309	56309
0.125	0.063	5/16	2-1/2	std	BRMG-10125	16310	56310
0.140	0.095	3/8	2-1/2	std	BRMG-12140	16311	56311
0.156	0.063	3/8	2-1/2	std	BRMG-12156	16312	56312

SPECIAL USE CARBIDE END MILLS



3 FLUTE • CORNER ROUNDING END MILLS



SERIES: RMG

RADIUS	MINOR DIA	SHK/ LARGE DIA	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/32	1/8	3/16	2	std	RMG-601	16092	56092
1/16	1/8	1/4	2-1/2	std	RMG-802	16093	56093
3/32	3/16	3/8	2-1/2	std	RMG-1203	16094	56094
1/8	1/4	1/2	3	std	RMG-1604	16095	56095
5/32	5/16	5/8	3-1/2	std	RMG-2005	16096	56096
3/16	3/8	3/4	4	std	RMG-2406	16097	56097
1/4	1/2	1	4	std	RMG-3208	16098	56098

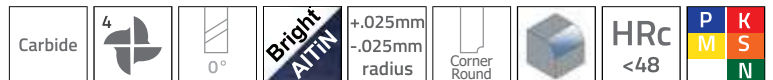
4 FLUTE • CORNER ROUNDING END MILLS



SERIES: RCMG

RADIUS	MINOR DIA	SHK/LARGE DIA	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/32	1/8	3/16	2	std	RCMG-601	16099	56099
1/16	1/8	1/4	2-1/2	std	RCMG-802	16100	56100
3/32	3/16	3/8	2-1/2	std	RCMG-1203	16101	56101
1/8	1/4	1/2	3	std	RCMG-1604	16102	56102
5/32	5/16	5/8	3-1/2	std	RCMG-2005	16103	56103
3/16	3/8	3/4	4	std	RCMG-2406	16104	56104
1/4	1/2	1	4	std	RCMG-3208	16105	56105

4 FLUTE • CORNER ROUNDING END MILLS



SERIES: RCMG

RADIUS	MINOR DIA	SHK/LARGE DIA	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1mm	4mm	6mm	63mm	std	RCMG-M6M1	13632	53632
1.5mm	3mm	6mm	63mm	std	RCMG-M6M1.5	13633	53633
2mm	4mm	8mm	63mm	std	RCMG-M8M2	13634	53634
3mm	6mm	12mm	76mm	std	RCMG-M12M3	13635	53635
4mm	8mm	16mm	89mm	std	RCMG-M16M4	13636	53636

SPECIAL USE CARBIDE END MILLS

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2 FLUTE • 60° OR 90° CHAMFER END MILLS



SERIES: CMG2

60°

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/4	1/4	3/16	2-1/2	std	CMG2-808-60	16281	56281
3/8	3/8	5/16	2-1/2	std	CMG2-1212-60	16282	56282
1/2	1/2	7/16	3	std	CMG2-1616-60	16283	56283
3/4	3/4	5/8	4	std	CMG2-2424-60	11575	51575

90°

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/8	1/8	1/16	1-1/2	std	CMG2-404-90	12091	52091
1/4	1/4	1/8	2-1/2	std	CMG2-808-90	16284	56284
3/8	3/8	3/16	2-1/2	std	CMG2-1212-90	16278	56278
1/2	1/2	1/4	3	std	CMG2-1616-90	16285	56285
3/4	3/4	3/8	4	std	CMG2-2424-90	12293	52293

2 FLUTE • 90° DOUBLE END CHAMFER END MILLS



SERIES: DMG2

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP
1/8	1/8	1/16	1-1/2	std	DMG2-404-90	10971
3/16	3/16	3/32	2	std	DMG2-606-90	10973
1/4	1/4	1/8	2-1/2	std	DMG2-808-90	10975
3/8	3/8	3/16	2-1/2	std	DMG2-1212-90	10977
1/2	1/2	1/4	3	std	DMG2-1616-90	10979
5/8	5/8	5/16	3-1/2	std	DMG2-2020-90	13097
3/4	3/4	3/8	4	std	DMG2-2424-90	13099

4 FLUTE • 60° OR 90° CHAMFER END MILLS



SERIES: CMG4

60°

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/4	1/4	3/16	2-1/2	std	CMG4-808-60	16286	56286
3/8	3/8	5/16	2-1/2	std	CMG4-1212-60	16287	56287
1/2	1/2	7/16	3	std	CMG4-1616-60	16288	56288
3/4	3/4	5/8	4	std	CMG4-2424-60	16289	56289

90°

DIA	SHK	LOC	OAL	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/4	1/4	1/8	2-1/2	std	CMG4-808-90	16290	56290
3/8	3/8	3/16	2-1/2	std	CMG4-1212-90	16279	56279
1/2	1/2	1/4	3	std	CMG4-1616-90	16291	56291
3/4	3/4	3/8	4	std	CMG4-2424-90	16292	56292

SPECIAL USE CARBIDE END MILLS

MULTI FLUTE • BACK CHAMFER END MILLS



Carbide

MULTI FLUTES

BRIGHT

$\begin{matrix} +.0000 \\ -.0050 \\ \text{O.D.} \end{matrix}$

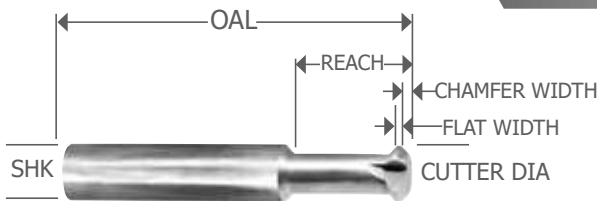
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P	K
M	S
	N

SERIES: BC

CUTTER DIA	SHANK DIA	OAL	WIDTH	FLAT	NECK DIA	NECK WIDTH	FLUTES	TOOL	BRIGHT EDP
3/8	1/4	2-5/8	.125	0.031	.220	.365	4	BC-3/8	12340
1/2	5/16	2-5/8	.125	0.031	.295	.365	5	BC-1/2	12341
3/4	3/8	2-21/32	.156	0.031	----	----	6	BC-3/4	12342
1	1/2	3-3/16	.188	0.031	----	----	7	BC-1	12343

1 FLUTE • BACK CHAMFER FOR LATHES



Carbide

BRIGHT

$\begin{matrix} +.0000 \\ -.0050 \\ \text{O.D.} \end{matrix}$

HRC <48

P	K
M	S
	N

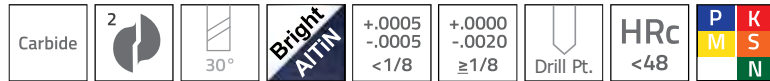
SERIES: BCL

CUTTER DIA	SHANK DIA	OAL	CHAMFER WIDTH	FLAT WIDTH	NECK DIA	REACH	TOOL	BRIGHT EDP
.177	3/16	2-1/2	0.026	0.031	0.125	0.775	BCL-3/16	12333
1/4	1/4	2-1/2	0.035	0.031	0.170	0.775	BCL-1/4	12334
1/4	1/4	2-1/2	0.035	0.031	0.170	1.275	BCL-1/4-L	12335
.300	5/16	2-1/2	0.045	0.031	0.210	0.775	BCL-5/16	12336
.360	3/8	2-1/2	0.055	0.031	0.250	0.775	BCL-3/8	12337
.360	3/8	2-1/2	0.055	0.031	0.250	1.275	BCL-3/8-L	12338
.490	1/2	3	0.070	0.031	0.350	1.000	BCL-1/2	12339

SPECIAL USE CARBIDE END MILLS

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2 FLUTE • 60°, 82° & 90° DRILL POINT END MILLS



SERIES: AMG-__-DP60

DIA	SHK	LOC	OAL	ANGLE	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
1/16	1/8	3/16	1-1/2	60°	std	AMG-402-DP60	12199	52199
3/32	1/8	3/8	1-1/2	60°	std	AMG-403-DP60	12200	52200
1/8	1/8	1/2	1-1/2	60°	std	AMG-404-DP60	11663	51663
3/16	3/16	5/8	2	60°	std	AMG-606-DP60	12201	52201
1/4	1/4	3/4	2-1/2	60°	std	AMG-808-DP60	11665	51665
5/16	5/16	13/16	2-1/2	60°	std	AMG-1010-DP60	12193	52193
3/8	3/8	1	2-1/2	60°	std	AMG-1212-DP60	11667	51667
7/16	7/16	1	2-3/4	60°	std	AMG-1414-DP60	12195	52195
1/2	1/2	1	3	60°	std	AMG-1616-DP60	11669	51669
5/8	5/8	1-1/4	3-1/2	60°	std	AMG-2020-DP60	12196	52196
3/4	3/4	1-1/2	4	60°	std	AMG-2424-DP60	12197	52197

SERIES: AMG-__-DP82

DIA	SHK	LOC	OAL	ANGLE	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
1/8	1/8	1/2	1-1/2	82°	std	AMG-404-DP82	12455	52455
1/4	1/4	3/4	2-1/2	82°	std	AMG-808-DP82	16590	56590
3/8	3/8	1	2-1/2	82°	std	AMG-1212-DP82	16591	56591
1/2	1/2	1	3	82°	std	AMG-1616-DP82	16592	56592
5/8	5/8	1-1/4	3-1/2	82°	std	AMG-2020-DP82	16593	56593
3/4	3/4	1-1/2	4	82°	std	AMG-2424-DP82	16594	56594

SERIES: AMG-__-DP

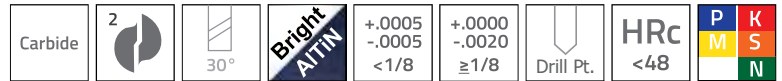
DIA	SHK	LOC	OAL	ANGLE	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
.015	1/8	.045	1-1/2	90°	std	AMG-.015-DP	13039	53039
.020	1/8	.060	1-1/2	90°	std	AMG-.020-DP	13029	53029
.025	1/8	.075	1-1/2	90°	std	AMG-.025-DP	13031	53031
.030	1/8	.090	1-1/2	90°	std	AMG-.030-DP	13033	53033
.045	1/8	.105	1-1/2	90°	std	AMG-.045-DP	13035	53035
.060	1/8	.180	1-1/2	90°	std	AMG-.060-DP	13037	53037
1/16	1/8	3/16	1-1/2	90°	std	AMG-402-DP	11623	51623
3/32	1/8	3/8	1-1/2	90°	std	AMG-403-DP	11625	51625
1/8	1/8	1/2	1-1/2	90°	std	AMG-404-DP	16083	56083
1/8	1/8	1/2	1-1/2	90°	std	AMG-404-DP-1	16703	56703
3/16	3/16	5/8	2	90°	std	AMG-606-DP	16084	56084
3/16	3/16	5/8	2	90°	std	AMG-606-DP-1	16704	56704
1/4	1/4	3/4	2-1/2	90°	std	AMG-808-DP	16085	56085
1/4	1/4	3/4	2-1/2	90°	std	AMG-808-DP-1	16712	56712
5/16	5/16	13/16	2-1/2	90°	std	AMG-1010-DP	16086	56086
5/16	5/16	13/16	2-1/2	90°	std	AMG-1010-DP-1	16705	56705
3/8	3/8	1	2-1/2	90°	std	AMG-1212-DP	16087	56087
3/8	3/8	1	2-1/2	90°	std	AMG-1212-DP-1	16462	56462
7/16	7/16	1	2-3/4	90°	std	AMG-1414-DP	16088	56088
1/2	1/2	1	3	90°	std	AMG-1616-DP	16089	56089
1/2	1/2	1	3	90°	std	AMG-1616-DP-1	16707	56707
5/8	5/8	1-1/4	3-1/2	90°	std	AMG-2020-DP	16090	56090
5/8	5/8	1-1/4	3-1/2	90°	std	AMG-2020-DP-1	16706	56706
3/4	3/4	1-1/2	4	90°	std	AMG-2424-DP	16091	56091

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

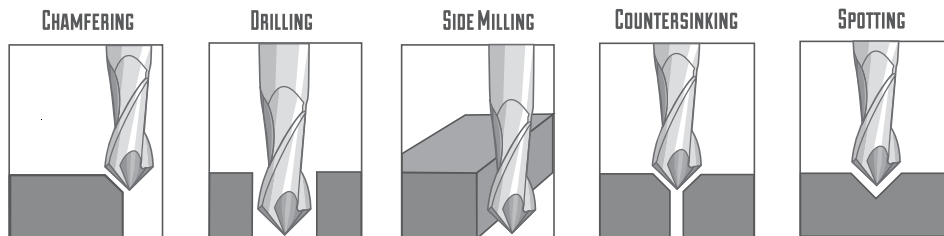
SPECIAL USE CARBIDE END MILLS

2 FLUTE • 90° DRILL POINT END MILLS

SERIES: AMG-__-DP



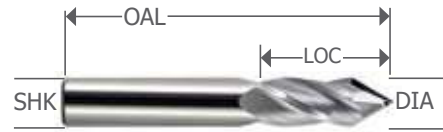
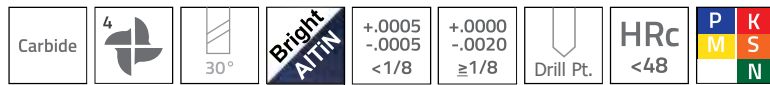
DIA	SHK	LOC	OAL	ANGLE	LENGTH	TOOL	BRIGHT EDP	ALTiN EDP
0.5mm	3mm	2.0mm	38mm	90°	std	AMG-M3M0.5-DP	13364	53364
0.6mm	3mm	2.5mm	38mm	90°	std	AMG-M3M0.6-DP	13365	53365
0.7mm	3mm	2.5mm	38mm	90°	std	AMG-M3M0.7-DP	13366	53366
0.8mm	3mm	3.0mm	38mm	90°	std	AMG-M3M0.8-DP	13367	53367
0.9mm	3mm	3.5mm	38mm	90°	std	AMG-M3M0.9-DP	13368	53368
1.0mm	3mm	4.0mm	38mm	90°	std	AMG-M3M1-DP	13369	53369
1.2mm	3mm	4.5mm	38mm	90°	std	AMG-M3M1.2-DP	13370	53370
1.4mm	3mm	5.5mm	38mm	90°	std	AMG-M3M1.4-DP	13371	53371
1.5mm	3mm	6.0mm	38mm	90°	std	AMG-M3M1.5-DP	13372	53372
1.8mm	3mm	7.0mm	38mm	90°	std	AMG-M3M1.8-DP	13373	53373
2.0mm	3mm	8.0mm	38mm	90°	std	AMG-M3M2-DP	13374	53374
2.5mm	3mm	10mm	38mm	90°	std	AMG-M3M2.5-DP	13375	53375
3.0mm	3mm	12mm	38mm	90°	std	AMG-M3M3-DP	13376	53376
4.0mm	4mm	14mm	51mm	90°	std	AMG-M4M4-DP	13377	53377
5.0mm	5mm	20mm	51mm	90°	std	AMG-M5M5-DP	13378	53378
6.0mm	6mm	20mm	63mm	90°	std	AMG-M6M6-DP	13379	53379
8.0mm	8mm	20mm	63mm	90°	std	AMG-M8M8-DP	13380	53380
10.0mm	10mm	25mm	70mm	90°	std	AMG-M10M10-DP	13381	53381
12.0mm	12mm	25mm	76mm	90°	std	AMG-M12M12-DP	13382	53382
16.0mm	16mm	32mm	89mm	90°	std	AMG-M16M16-DP	13383	53383
20.0mm	20mm	38mm	100mm	90°	std	AMG-M20M20-DP	13384	53384



SPECIAL USE CARBIDE END MILLS

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4 FLUTE • 60°, 82°, 90° DRILL POINT END MILLS



SERIES: CCMG-__-DP60

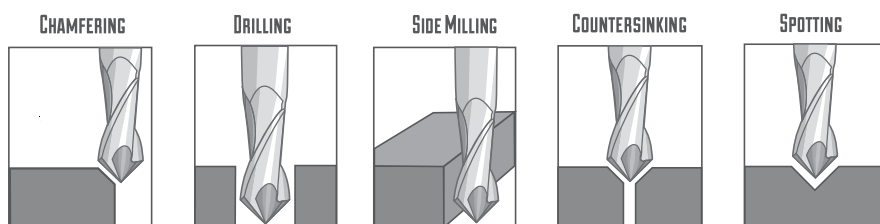
DIA	SHK	LOC	OAL	ANGLE	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/16	1/8	3/16	1-1/2	60°	std	CCMG-402-DP60	19764	59764
3/32	1/8	3/8	1-1/2	60°	std	CCMG-403-DP60	19765	59765
1/8	1/8	1/2	1-1/2	60°	std	CCMG-404-DP60	19766	59766
3/16	3/16	5/8	2	60°	std	CCMG-606-DP60	19767	59767
1/4	1/4	3/4	2-1/2	60°	std	CCMG-808-DP60	19768	59768
5/16	5/16	13/16	2-1/2	60°	std	CCMG-1010-DP60	19769	59769
3/8	3/8	1	2-1/2	60°	std	CCMG-1212-DP60	19770	59770
7/16	7/16	1	2-3/4	60°	std	CCMG-1414-DP60	19771	59771
1/2	1/2	1	3	60°	std	CCMG-1616-DP60	19772	59772
5/8	5/8	1-1/4	3-1/2	60°	std	CCMG-2020-DP60	19773	59773
3/4	3/4	1-1/2	4	60°	std	CCMG-2424-DP60	19774	59774

SERIES: CCMG-__-DP82

DIA	SHK	LOC	OAL	ANGLE	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/16	1/8	3/16	1-1/2	82°	std	CCMG-402-DP82	19775	59775
3/32	1/8	3/8	1-1/2	82°	std	CCMG-403-DP82	19776	59776
1/8	1/8	1/2	1-1/2	82°	std	CCMG-404-DP82	19777	59777
3/16	3/16	5/8	2	82°	std	CCMG-606-DP82	19778	59778
1/4	1/4	3/4	2-1/2	82°	std	CCMG-808-DP82	19779	59779
5/16	5/16	13/16	2-1/2	82°	std	CCMG-1010-DP82	19780	59780
3/8	3/8	1	2-1/2	82°	std	CCMG-1212-DP82	19781	59781
1/2	1/2	1	3	82°	std	CCMG-1616-DP82	19783	59783
5/8	5/8	1-1/4	3-1/2	82°	std	CCMG-2020-DP82	19784	59784
3/4	3/4	1-1/2	4	82°	std	CCMG-2424-DP82	19785	59785

SERIES: CCMG-__-DP

DIA	SHK	LOC	OAL	ANGLE	LENGTH	TOOL	BRIGHT EDP	ALTIN EDP
1/16	1/8	3/16	1-1/2	90°	std	CCMG-402-DP	11629	51629
3/32	1/8	3/8	1-1/2	90°	std	CCMG-403-DP	11631	51631
1/8	1/8	1/2	1-1/2	90°	std	CCMG-404-DP	11633	51633
3/16	3/16	5/8	2	90°	std	CCMG-606-DP	11635	51635
1/4	1/4	3/4	2-1/2	90°	std	CCMG-808-DP	11637	51637
5/16	5/16	13/16	2-1/2	90°	std	CCMG-1010-DP	11639	51639
3/8	3/8	1	2-1/2	90°	std	CCMG-1212-DP	11640	51640
7/16	7/16	1	2-3/4	90°	std	CCMG-1414-DP	11641	51641
1/2	1/2	1	3	90°	std	CCMG-1616-DP	11642	51642
5/8	5/8	1-1/4	3-1/2	90°	std	CCMG-2020-DP	11643	51643
3/4	3/4	1-1/2	4	90°	std	CCMG-2424-DP	11644	51644



SPECIAL USE CARBIDE END MILLS

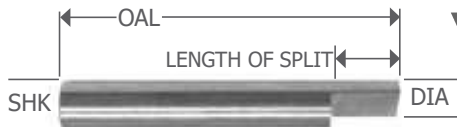


BLANKS • CENTERLESS GROUND BLANKS

Carbide	BRIGHT	+.0010 -.0000
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SIZE	CENTERLESS GROUND EDP
1/8 x 1-1/2	10455
1/8 x 2	10457
1/8 x 3	10459
3/16 x 2	10461
3/16 x 3	10463
1/4 x 2	10465
1/4 x 2-1/2	10467
1/4 x 3	10469
1/4 x 4	10471
5/16 x 2-1/2	10473
5/16 x 3	10475
5/16 x 4	10477
3/8 x 2-1/2	10479
3/8 x 3	10481
3/8 x 3-1/2	10483
3/8 x 4	10485
3/8 x 6	10487

SIZE	CENTERLESS GROUND EDP
7/16 x 2-1/2	10489
7/16 x 2-3/4	10491
7/16 x 3	10493
7/16 x 4	10495
1/2 x 3	10499
1/2 x 4	10501
1/2 x 6	10503
9/16 x 3-1/2	10505
5/8 x 3-1/2	10507
5/8 x 6	10509
3/4 x 4	10511
3/4 x 6	10513
7/8 x 4	10515
1 x 4	10517
1 x 6	10519



BLANKS • ENGRAVING BLANKS

DIA	SHK	LENGTH OF SPLIT	OAL	SINGLE END EDP	DOUBLE END EDP
1/8	1/8	3/8	1-1/2	10521	10565
1/8	1/8	3/8	2	10523	10567
1/8	1/8	3/8	3	10525	10569
3/16	3/16	1/2	2	10527	10571
3/16	3/16	1/2	3	10529	10573
1/4	1/4	1/2	2	10531	10575
1/4	1/4	1/2	2-1/2	10533	10577
1/4	1/4	1/2	3	10535	10579
1/4	1/4	1/2	4	10537	10581
5/16	5/16	1/2	2-1/2	10539	10583
5/16	5/16	1/2	3	10541	10585
5/16	5/16	1/2	4	10543	10587
3/8	3/8	1/2	2-1/2	10545	10589
3/8	3/8	1/2	3	10547	10591
3/8	3/8	1/2	4	10549	10593
3/8	3/8	1/2	6	10551	10595
7/16	7/16	5/8	2-1/2	10553	10597
7/16	7/16	5/8	3	10555	10599
7/16	7/16	5/8	4	10557	10601
1/2	1/2	5/8	3	10559	10603
1/2	1/2	5/8	4	10561	10605
1/2	1/2	5/8	6	10563	10607

SPECIAL USE CARBIDE END MILLS

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BLANKS • HALF ROUND - RELIEVED FOR RIGHT HAND CUT

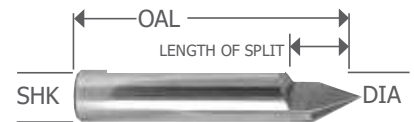
Carbide	BRIGHT	+.0010 -.0000	
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DIA	SHK	LENGTH OF SPLIT	OAL	HALF ROUND BALL
1/8	1/8	3/16	1-1/2	91073
5/32	5/32	3/16	1-1/2	91074
3/16	3/16	1/4	1-1/2	91075
1/4	1/4	3/8	2	91076
5/16	5/16	3/8	2	91077
3/8	3/8	1/2	2	91078
7/16	7/16	1/2	2	91079
1/2	1/2	9/16	2	91080

BLANKS • HALF ROUND 60° CONICAL- RELIEVED FOR RIGHT HAND CUT

Carbide	BRIGHT	+.0010 -.0000	
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DIA	SHK	LENGTH OF SPLIT	OAL	HALF ROUND 60° CONICAL
1/8	1/8	3/16	1-1/2	91081
5/32	5/32	3/16	1-1/2	91082
3/16	3/16	1/4	1-1/2	91083
1/4	1/4	3/8	2	91084
5/16	5/16	3/8	2	91085
3/8	3/8	1/2	2	91086
7/16	7/16	1/2	2	91087
1/2	1/2	1/2	2	91088

BLANKS • HALF ROUND SQUARE - RELIEVED FOR RIGHT HAND CUT

Carbide	BRIGHT	+.0010 -.0000	
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DIA	SHK	LENGTH OF SPLIT	OAL	HALF ROUND SQUARE
1/8	1/8	3/16	1-1/2	91089
5/32	5/32	3/16	1-1/2	91090
3/16	3/16	1/4	1-1/2	91091
1/4	1/4	3/8	2	91092
5/16	5/16	3/8	2	91093
3/8	3/8	1/2	2	91094
7/16	7/16	1/2	2	91095
1/2	1/2	1/2	2	91096

SPECIAL USE CARBIDE END MILLS

BLANKS • 30°, 60°, 90° CONICAL - RELIEVED FOR RIGHT HAND CUT



Carbide	BRIGHT	+0.010 -0.0000	
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DIA	SHK	LENGTH OF SPLIT	OAL	30°	60°	90°
1/8	1/8	3/8	1-1/2	91001	91013	91025
1/8	1/8	3/8	3	91002	91014	91026
3/16	3/16	7/16	2	91003	91015	91027
3/16	3/16	7/16	3	91004	91016	91028
1/4	1/4	1/2	2	91005	91017	91029
1/4	1/4	1/2	4	91006	91018	91030
5/16	5/16	1/2	2-1/2	91007	91019	91031
5/16	5/16	1/2	4	91008	91020	91032
3/8	3/8	1/2	2-1/2	91009	91021	91033
3/8	3/8	1/2	4	91010	91022	91034
1/2	1/2	5/8	3	91011	91023	91035
1/2	1/2	5/8	4	91012	91024	91036

BLANKS • 30°, 60°, 90° DOUBLE END CONICAL - RELIEVED FOR RIGHT HAND CUT



Carbide	BRIGHT	+0.010 -0.0000	
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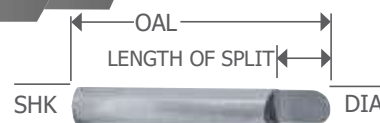
DIA	SHK	LENGTH OF SPLIT	OAL	30°	60°	90°
1/8	1/8	3/8	2	91037	91049	91061
1/8	1/8	3/8	3	91038	91050	91062
3/16	3/16	7/16	2	91039	91051	91063
3/16	3/16	7/16	3	91040	91052	91064
1/4	1/4	1/2	2-1/2	91041	91053	91065
1/4	1/4	1/2	4	91042	91054	91066
5/16	5/16	1/2	2-1/2	91043	91055	91067
5/16	5/16	1/2	4	91044	91056	91068
3/8	3/8	1/2	2-1/2	91045	91057	91069
3/8	3/8	1/2	4	91046	91058	91070
1/2	1/2	5/8	3	91047	91059	91071
1/2	1/2	5/8	4	91048	91060	91072

SPECIAL USE CARBIDE END MILLS

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BLANKS • SPLIT BALL NOSE - RELIEVED FOR RIGHT HAND CUT

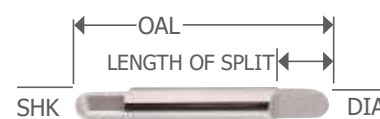
Carbide	BRIGHT	+0.0010 -0.0000	
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DIA	SHK	LENGTH OF SPLIT	OAL	SINGLE END
1/8	1/8	3/8	1-1/2	12344
1/8	1/8	3/8	3	12345
3/16	3/16	3/8	2	12346
3/16	3/16	3/8	3	12347
1/4	1/4	3/8	2-1/2	12348
1/4	1/4	3/8	4	12349
5/16	5/16	1/2	2-1/2	12350
3/8	3/8	1/2	2-1/2	12351
1/2	1/2	5/8	3	12352

BLANKS • Double End SPLIT BALL NOSE - RELIEVED FOR RIGHT HAND CUT

Carbide	BRIGHT	+0.0010 -0.0000	
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DIA	SHK	LENGTH OF SPLIT	OAL	DOUBLE END
1/8	1/8	3/8	1-1/2	12353
1/8	1/8	3/8	3	12354
3/16	3/16	3/8	2	12355
3/16	3/16	3/8	3	12356
1/4	1/4	3/8	2-1/2	12357
1/4	1/4	3/8	4	12358
5/16	5/16	1/2	2-1/2	12359
3/8	3/8	1/2	2-1/2	12360
1/2	1/2	5/8	3	12361
1/2	1/2	5/8	4	12363