

MICRO END MILL TOOL CATALOG

Micro sized solid carbide end mills & drills



THE MANUFACTURER ADVANTAGE—

***GET TO KNOW
WHO MAKES
YOUR MICROS***



MELIN TOOL MICRO CATALOG

- » **New Micro 3 Flute Series**
- » Over **3000** MICRO items INSIDE
- » Expanded manufacturing facility & product line



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MICRO TOOL CATALOG

Micro Size Solid Carbide End Mills & Drills



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- 2** Flute Micro **Square** End Mill (*Inch & Metric*)
Diameters Range From .005 - .125"
Series: AMG



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- 2** Flute Micro **Ball** End Mill (*Inch & Metric*)
Diameters Range From .005 - .120"
Series: AMG-__-B



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- 3** Flute Micro **Square** End Mill (*Inch & Metric*)
Diameters Range From .010 - .250"
Series: EMG



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- 3** Flute Micro **Ball** End Mill (*Inch & Metric*)
Diameters Range From .010 - .250"
Series: EMG-__-B



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- 4** Flute Micro **Square** End Mill (*Inch & Metric*)
Diameters Range From .005 - .125"
Series: CCMG



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- 4** Flute Micro **Ball** End Mill (*Inch & Metric*)
Diameters Range From .010 - .125"
Series: CCMG-__-B



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- 4** Flute Micro **Radius** End Mill
Diameters Range From .020 - .125"
Series: CCMG-__-R

High Performance



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- 3** FL **Sq & Radius** Variable FL - HP Roughing & Finishing (*Inch & Metric*)
Diameters Range From .031 - .093"
Series: VXMGT



SERIES: AMG

2 FLUTE MELIN SQUARE AND BALL MICRO END MILLS

Expanded Melin 2 Flute Series offered in both square, and ball end styles. This series offers stub and standard lengths of cut. With Melin's in house coating capabilities, All tools in this series are available to you bright or can be ordered with any of Melin's coatings (recommended coating for this series is AlTiN).



(For larger diameters, please see full line catalog)



- Sizes available
 - Square from 0.005 - 0.125
 - Ball from 0.005 - 0.120
- Length of cut 1.5xD & 3xD
- Center cutting
- Metric offering available
- Bright, AlTiN, & Amorphous (DLC)
 - Diamond
 - additional coatings available on request*
- Made from premium submicron grain carbide

ALL LENGTHS - SQUARE END BALL END

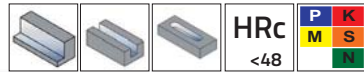
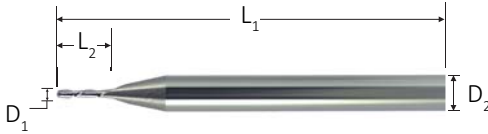
Premium 2 Flute Carbide Micro End Mills. Square and Ball End in both stub and standard length of cuts. Ideal for **profiling, slotting and plunging.** Manufactured in Cleveland, OH.

2 FLUTES

SERIES: AMG

2 FLUTE MELIN MICRO SQUARE END MILLS

(discount code PIC2)



DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTiN EDP	DLC EDP
0.005	1/8	0.008	1-1/2	stub	AMGS-.005	16629	56629	
0.005	1/8	0.015	1-1/2	std	AMG-.005	10615	50615	
0.006	1/8	0.009	1-1/2	stub	AMGS-.006	16630	56630	
0.006	1/8	0.018	1-1/2	std	AMG-.006	16636	56636	
0.007	1/8	0.011	1-1/2	stub	AMGS-.007	16638	56638	
0.007	1/8	0.021	1-1/2	std	AMG-.007	16640	56640	
0.008	1/8	0.012	1-1/2	stub	AMGS-.008	16643	56643	
0.008	1/8	0.024	1-1/2	std	AMG-.008	16651	56651	
0.009	1/8	0.014	1-1/2	stub	AMGS-.009	16652	56652	
0.009	1/8	0.027	1-1/2	std	AMG-.009	16653	56653	
0.010	1/8	0.015	1-1/2	stub	AMGS-.010	16654	56654	76654
0.010	1/8	0.030	1-1/2	std	AMG-.010	10617	50617	70617
0.011	1/8	0.017	1-1/2	stub	AMGS-.011	16655	56655	76655
0.011	1/8	0.033	1-1/2	std	AMG-.011	16658	56658	76658
0.012	1/8	0.018	1-1/2	stub	AMGS-.012	16659	56659	76659
0.012	1/8	0.036	1-1/2	std	AMG-.012	16660	56660	76660
0.013	1/8	0.020	1-1/2	stub	AMGS-.013	16670	56670	76670
0.013	1/8	0.039	1-1/2	std	AMG-.013	16671	56671	76671
0.014	1/8	0.021	1-1/2	stub	AMGS-.014	16672	56672	76672
0.014	1/8	0.042	1-1/2	std	AMG-.014	16673	56673	76673
0.015 (1/64)	1/8	0.023	1-1/2	stub	AMGS-.015	16674	56674	76674
0.015 (1/64)	1/8	0.045	1-1/2	std	AMG-.015	10619	50619	70619
0.016	1/8	0.024	1-1/2	stub	AMGS-.016	16675	56675	76675
0.016	1/8	0.048	1-1/2	std	AMG-.016	16676	56676	76676
0.017	1/8	0.026	1-1/2	stub	AMGS-.017	16677	56677	76677
0.017	1/8	0.051	1-1/2	std	AMG-.017	16678	56678	76678
0.018	1/8	0.027	1-1/2	stub	AMGS-.018	16679	56679	76679
0.018	1/8	0.054	1-1/2	std	AMG-.018	16680	56680	76680
0.019	1/8	0.029	1-1/2	stub	AMGS-.019	16681	56681	76681
0.019	1/8	0.057	1-1/2	std	AMG-.019	16682	56682	76682

sizes continued on next page



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Series: AMG

(discount code P1C2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.020	1/8	0.030	1-1/2	stub	AMGS-.020	16683	56683	76683
0.020	1/8	0.060	1-1/2	std	AMG-.020	10621	50621	70621
0.021	1/8	0.032	1-1/2	stub	AMGS-.021	16684	56684	76684
0.021	1/8	0.063	1-1/2	std	AMG-.021	16685	56685	76685
0.022	1/8	0.033	1-1/2	stub	AMGS-.022	16686	56686	76686
0.022	1/8	0.066	1-1/2	std	AMG-.022	16687	56687	76687
0.023	1/8	0.035	1-1/2	stub	AMGS-.023	16688	56688	76688
0.023	1/8	0.069	1-1/2	std	AMG-.023	16689	56689	76689
0.024	1/8	0.036	1-1/2	stub	AMGS-.024	16690	56690	76690
0.024	1/8	0.072	1-1/2	std	AMG-.024	16691	56691	76691
0.025	1/8	0.038	1-1/2	stub	AMGS-.025	16692	56692	76692
0.025	1/8	0.075	1-1/2	std	AMG-.025	10623	50623	70623
0.026	1/8	0.039	1-1/2	stub	AMGS-.026	16693	56693	76693
0.026	1/8	0.078	1-1/2	std	AMG-.026	16694	56694	76694
0.027	1/8	0.041	1-1/2	stub	AMGS-.027	16695	56695	76695
0.027	1/8	0.081	1-1/2	std	AMG-.027	16696	56696	76696
0.028	1/8	0.042	1-1/2	stub	AMGS-.028	16697	56697	76697
0.028	1/8	0.084	1-1/2	std	AMG-.028	16745	56745	76745
0.029	1/8	0.044	1-1/2	stub	AMGS-.029	16763	56763	76763
0.029	1/8	0.087	1-1/2	std	AMG-.029	16781	56781	76781
0.030	1/8	0.045	1-1/2	stub	AMGS-.030	16908	56908	76908
0.030	1/8	0.090	1-1/2	std	AMG-.030	10625	50625	70625
0.031 (1/32)	1/8	0.047	1-1/2	stub	AMGS-.031	16916	56916	76916
0.031 (1/32)	1/8	0.093	1-1/2	std	AMG-.031	16917	56917	76917
0.032	1/8	0.048	1-1/2	stub	AMGS-.032	16918	56918	76918
0.032	1/8	0.096	1-1/2	std	AMG-.032	16919	56919	76919
0.033	1/8	0.050	1-1/2	stub	AMGS-.033	16920	56920	76920
0.033	1/8	0.099	1-1/2	std	AMG-.033	16921	56921	76921
0.034	1/8	0.051	1-1/2	stub	AMGS-.034	16922	56922	76922
0.034	1/8	0.102	1-1/2	std	AMG-.034	16923	56923	76923
0.035	1/8	0.053	1-1/2	stub	AMGS-.035	16924	56924	76924
0.035	1/8	0.105	1-1/2	std	AMG-.035	10627	50627	70627
0.036	1/8	0.054	1-1/2	stub	AMGS-.036	H1753	H1961	
0.036	1/8	0.108	1-1/2	std	AMG-.036	H1523	H1962	
0.037	1/8	0.056	1-1/2	stub	AMGS-.037	H1406	H1963	
0.037	1/8	0.111	1-1/2	std	AMG-.037	H1524	H1964	
0.038	1/8	0.057	1-1/2	stub	AMGS-.038	H1407	H1965	
0.038	1/8	0.114	1-1/2	std	AMG-.038	H1525	H1966	
0.039	1/8	0.059	1-1/2	stub	AMGS-.039	H1408	H1967	
0.039	1/8	0.117	1-1/2	std	AMG-.039	H1526	H1527	
0.040	1/8	0.060	1-1/2	stub	AMGS-.040	16925	56925	76925
0.040	1/8	0.120	1-1/2	std	AMG-.040	10629	50629	70629
0.041	1/8	0.123	1-1/2	std	AMG-.041	H1528	H1968	
0.042	1/8	0.126	1-1/2	std	AMG-.042	H1529	H1969	
0.043	1/8	0.129	1-1/2	std	AMG-.043	H1530	H1970	

sizes continued on next page

SERIES: AMG

2 FLUTE MELIN MICRO SQUARE END MILLS

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.044	1/8	0.132	1-1/2	std	AMG-.044	H1531	H1971	
0.045	1/8	0.068	1-1/2	stub	AMGS-.045	16932	56932	76932
0.045	1/8	0.135	1-1/2	std	AMG-.045	10631	50631	70631
0.046	1/8	0.138	1-1/2	std	AMG-.046	H1532	H1972	
0.047 (3/64)	1/8	0.071	1-1/2	stub	AMGS-.047	H1409	H1410	
0.047 (3/64)	1/8	0.141	1-1/2	std	AMG-.047	H1533	H1534	H1535
0.048	1/8	0.144	1-1/2	std	AMG-.048	H1536	H1973	
0.049	1/8	0.147	1-1/2	std	AMG-.049	H1537	H1974	
0.050	1/8	0.074	1-1/2	stub	AMGS-.050	16937	56937	76937
0.050	1/8	0.150	1-1/2	std	AMG-.050	10633	50633	70633
0.051	1/8	0.153	1-1/2	std	AMG-.051	H1538	H1975	
0.052	1/8	0.156	1-1/2	std	AMG-.052	H1539	H1976	
0.053	1/8	0.159	1-1/2	std	AMG-.053	H1540	H1977	
0.054	1/8	0.162	1-1/2	std	AMG-.054	H1541	H1978	
0.055	1/8	0.083	1-1/2	stub	AMGS-.055	17000	57000	77000
0.055	1/8	0.165	1-1/2	std	AMG-.055	10635	50635	70635
0.056	1/8	0.168	1-1/2	std	AMG-.056	H1542	H1979	
0.057	1/8	0.171	1-1/2	std	AMG-.057	H1543	H1980	
0.058	1/8	0.174	1-1/2	std	AMG-.058	H1544	H1981	
0.059	1/8	0.177	1-1/2	std	AMG-.059	H1545	H1982	
0.060	1/8	0.090	1-1/2	stub	AMGS-.060	17116	57116	77116
0.060	1/8	0.180	1-1/2	std	AMG-.060	10637	50637	70637
0.062 (1/16)	1/8	0.093	1-1/2	stub	AMGS-.062	H1411	H1412	
0.062 (1/16)	1/8	0.186	1-1/2	std	AMG-.062	H1546	H1547	H1548
0.065	1/8	0.098	1-1/2	stub	AMGS-.065	17117	57117	77117
0.065	1/8	0.195	1-1/2	std	AMG-.065	10639	50639	70639
0.070	1/8	0.105	1-1/2	stub	AMGS-.070	17118	57118	77118
0.070	1/8	0.210	1-1/2	std	AMG-.070	10641	50641	70641
0.075	1/8	0.113	1-1/2	stub	AMGS-.075	17119	57119	77119
0.075	1/8	0.225	1-1/2	std	AMG-.075	10643	50643	70643
0.078 (5/64)	1/8	0.117	1-1/2	stub	AMGS-.078	H1413	H1414	
0.078 (5/64)	1/8	0.234	1-1/2	std	AMG-.078	H1549	H1550	H1551
0.080	1/8	0.120	1-1/2	stub	AMGS-.080	17120	57120	77120
0.080	1/8	0.240	1-1/2	std	AMG-.080	10645	50645	70645
0.085	1/8	0.128	1-1/2	stub	AMGS-.085	17121	57121	77121
0.085	1/8	0.255	1-1/2	std	AMG-.085	10647	50647	70647
0.090	1/8	0.135	1-1/2	stub	AMGS-.090	17122	57122	77122
0.090	1/8	0.270	1-1/2	std	AMG-.090	10649	50649	70649
0.093 (3/32)	1/8	0.140	1-1/2	stub	AMGS-.093	H1415	H1416	
0.093 (3/32)	1/8	0.279	1-1/2	std	AMG-.093	H1552	H1553	H1554
0.095	1/8	0.143	1-1/2	stub	AMGS-.095	17123	57123	77123
0.095	1/8	0.285	1-1/2	std	AMG-.095	10651	50651	70651

sizes continued on next page



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Series: AMG

(discount code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.100	1/8	0.150	1-1/2	stub	AMGS-.100	17124	57124	77124
0.100	1/8	0.300	1-1/2	std	AMG-.100	10653	50653	70653
0.105	1/8	0.158	1-1/2	stub	AMGS-.105	H1606	H1607	
0.105	1/8	0.315	1-1/2	std	AMG-.105	H1585	H1586	
0.110	1/8	0.165	1-1/2	stub	AMGS-.110	H1608	H1609	
0.110	1/8	0.330	1-1/2	std	AMG-.110	H1588	H1589	
0.115	1/8	0.173	1-1/2	stub	AMGS-.115	H1610	H1611	
0.115	1/8	0.345	1-1/2	std	AMG-.115	H1591	H1592	
0.118	1/8	0.177	1-1/2	stub	AMGS-.118	H1983	H1984	
0.118	1/8	0.354	1-1/2	std	AMG-.118	H2015	H2016	
0.120	1/8	0.180	1-1/2	stub	AMGS-.120	H1927	H1928	
0.120	1/8	0.360	1-1/2	std	AMG-.120	H1925	H1926	
0.125 (1/8)	1/8	0.187	1-1/2	stub	AMGS-.125	H1985	H1986	
0.125 (1/8)	1/8	0.375	1-1/2	std	AMG-.125	H1987	H1988	H1989



LARGER Sizes In Full Line Catalog

S E R I E S: **AMG** (Metric)

2 FLUTE MELIN MICRO SQUARE END MILLS

(product code PIC2)



Carbide	2			+0.013mm -0.013mm				HRc <48	
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DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP
0.2mm	3mm	0.4mm	38mm	std	AMG-M0.2	13649	53649
0.3mm	3mm	0.9mm	38mm	std	AMG-M0.3	13650	53650
0.4mm	3mm	1.2mm	38mm	std	AMG-M0.4	13651	53651
0.5mm	3mm	1.5mm	38mm	std	AMG-M0.5	13652	53652
0.6mm	3mm	1.8mm	38mm	std	AMG-M0.6	13653	53653
0.7mm	3mm	2.1mm	38mm	std	AMG-M0.7	13654	53654
0.8mm	3mm	2.4mm	38mm	std	AMG-M0.8	13655	53655
0.9mm	3mm	2.7mm	38mm	std	AMG-M0.9	13656	53656
1.0mm	3mm	3.0mm	38mm	std	AMG-M3M1	16935	56935
1.1mm	3mm	3.3mm	38mm	std	AMG-M1.1	13658	53658
1.2mm	3mm	3.6mm	38mm	std	AMG-M1.2	13659	53659
1.3mm	3mm	3.9mm	38mm	std	AMG-M1.3	13660	53660
1.4mm	3mm	4.2mm	38mm	std	AMG-M1.4	13661	53661
1.5mm	3mm	4.5mm	38mm	std	AMG-M1.5	13662	53662



LARGER Sizes In Full line Catalog

SERIES: AMG-__-B

2 FLUTE MELIN MICRO BALL END MILLS

(product code PIC2)



Carbide	2		Bright ALTIN	±.0005 -.0005	Ball					HRc <48	
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DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.005	1/8	0.008	1-1/2	stub	AMGS-.005-B	17665	57665	
0.005	1/8	0.015	1-1/2	std	AMG-.005-B	17671	57671	
0.006	1/8	0.009	1-1/2	stub	AMGS-.006-B	17690	57690	
0.006	1/8	0.018	1-1/2	std	AMG-.006-B	17697	57697	
0.007	1/8	0.011	1-1/2	stub	AMGS-.007-B	17710	57710	
0.007	1/8	0.021	1-1/2	std	AMG-.007-B	17721	57721	
0.008	1/8	0.012	1-1/2	stub	AMGS-.008-B	17725	57725	
0.008	1/8	0.024	1-1/2	std	AMG-.008-B	17726	57726	
0.009	1/8	0.014	1-1/2	stub	AMGS-.009-B	17728	57728	
0.009	1/8	0.027	1-1/2	std	AMG-.009-B	17731	57731	
0.010	1/8	0.015	1-1/2	stub	AMGS-.010-B	17734	57734	77734
0.010	1/8	0.030	1-1/2	std	AMG-.010-B	13142	53142	73142
0.011	1/8	0.017	1-1/2	stub	AMGS-.011-B	17738	57738	77738
0.011	1/8	0.033	1-1/2	std	AMG-.011-B	17740	57740	77740
0.012	1/8	0.018	1-1/2	stub	AMGS-.012-B	17742	57742	77742
0.012	1/8	0.036	1-1/2	std	AMG-.012-B	17744	57744	77744
0.013	1/8	0.020	1-1/2	stub	AMGS-.013-B	17746	57746	77746
0.013	1/8	0.039	1-1/2	std	AMG-.013-B	17748	57748	77748
0.014	1/8	0.021	1-1/2	stub	AMGS-.014-B	17750	57750	77750
0.014	1/8	0.042	1-1/2	std	AMG-.014-B	17753	57753	77753
0.015 (1/64)	1/8	0.023	1-1/2	stub	AMGS-.015-B	17758	57758	77758
0.015 (1/64)	1/8	0.045	1-1/2	std	AMG-.015-B	13143	53143	73143
0.016	1/8	0.024	1-1/2	stub	AMGS-.016-B	17763	57763	77763
0.016	1/8	0.048	1-1/2	std	AMG-.016-B	17765	57765	77765
0.017	1/8	0.026	1-1/2	stub	AMGS-.017-B	17767	57767	77767
0.017	1/8	0.051	1-1/2	std	AMG-.017-B	17769	57769	77769
0.018	1/8	0.027	1-1/2	stub	AMGS-.018-B	17771	57771	77771
0.018	1/8	0.054	1-1/2	std	AMG-.018-B	17773	57773	77773
0.019	1/8	0.029	1-1/2	stub	AMGS-.019-B	17775	57775	77775
0.019	1/8	0.057	1-1/2	std	AMG-.019-B	17777	57777	77777

sizes continued on next page



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Series: AMG-__-B

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.020	1/8	0.030	1-1/2	stub	AMGS-.020-B	17780	57780	77780
0.020	1/8	0.060	1-1/2	std	AMG-.020-B	13144	53144	73144
0.021	1/8	0.032	1-1/2	stub	AMGS-.021-B	17785	57785	77785
0.021	1/8	0.063	1-1/2	std	AMG-.021-B	17790	57790	77790
0.022	1/8	0.033	1-1/2	stub	AMGS-.022-B	17813	57813	77813
0.022	1/8	0.066	1-1/2	std	AMG-.022-B	17963	57963	77963
0.023	1/8	0.035	1-1/2	stub	AMGS-.023-B	17996	57996	77996
0.023	1/8	0.069	1-1/2	std	AMG-.023-B	17997	57997	77997
0.024	1/8	0.036	1-1/2	stub	AMGS-.024-B	17998	57998	77998
0.024	1/8	0.072	1-1/2	std	AMG-.024-B	17999	57999	77999
0.025	1/8	0.038	1-1/2	stub	AMGS-.025-B	18025	58025	78025
0.025	1/8	0.075	1-1/2	std	AMG-.025-B	13145	53145	73145
0.026	1/8	0.039	1-1/2	stub	AMGS-.026-B	18180	58180	78180
0.026	1/8	0.078	1-1/2	std	AMG-.026-B	18245	58245	78245
0.027	1/8	0.041	1-1/2	stub	AMGS-.027-B	18246	58246	78246
0.027	1/8	0.081	1-1/2	std	AMG-.027-B	18247	58247	78247
0.028	1/8	0.042	1-1/2	stub	AMGS-.028-B	18514	58514	78514
0.028	1/8	0.084	1-1/2	std	AMG-.028-B	18519	58519	78519
0.029	1/8	0.044	1-1/2	stub	AMGS-.029-B	18533	58533	78533
0.029	1/8	0.087	1-1/2	std	AMG-.029-B	18546	58546	78546
0.030	1/8	0.045	1-1/2	stub	AMGS-.030-B	18556	58556	78556
0.030	1/8	0.090	1-1/2	std	AMG-.030-B	13146	53146	73146
0.031 (1/32)	1/8	0.047	1-1/2	stub	AMGS-.031-B	18557	58557	78557
0.031 (1/32)	1/8	0.093	1-1/2	std	AMG-.031-B	18559	58559	78559
0.032	1/8	0.048	1-1/2	stub	AMGS-.032-B	18561	58561	78561
0.032	1/8	0.096	1-1/2	std	AMG-.032-B	18563	58563	78563
0.033	1/8	0.050	1-1/2	stub	AMGS-.033-B	18564	58564	78564
0.033	1/8	0.099	1-1/2	std	AMG-.033-B	18565	58565	78565
0.034	1/8	0.051	1-1/2	stub	AMGS-.034-B	18566	58566	78566
0.034	1/8	0.102	1-1/2	std	AMG-.034-B	18814	58814	78814
0.035	1/8	0.053	1-1/2	stub	AMGS-.035-B	18815	58815	78815
0.035	1/8	0.105	1-1/2	std	AMG-.035-B	13147	53147	73147
0.036	1/8	0.054	1-1/2	stub	AMGS-.036-B	H1595	H1933	
0.036	1/8	0.108	1-1/2	std	AMG-.036-B	H1555	H1934	
0.037	1/8	0.056	1-1/2	stub	AMGS-.037-B	H1596	H1935	
0.037	1/8	0.111	1-1/2	std	AMG-.037-B	H1556	H1936	
0.038	1/8	0.057	1-1/2	stub	AMGS-.038-B	H1597	H1937	
0.038	1/8	0.114	1-1/2	std	AMG-.038-B	H1557	H1938	
0.039	1/8	0.059	1-1/2	stub	AMGS-.039-B	H1598	H1939	
0.039	1/8	0.117	1-1/2	std	AMG-.039-B	H1558	H1940	
0.040	1/8	0.060	1-1/2	stub	AMGS-.040-B	18816	58816	78816
0.040	1/8	0.120	1-1/2	std	AMG-.040-B	13148	53148	73148
0.041	1/8	0.123	1-1/2	std	AMG-.041-B	H1559	H1941	
0.042	1/8	0.126	1-1/2	std	AMG-.042-B	H1560	H1942	

sizes continued on next page

S E R I E S: AMG-__-B

2 FLUTE MELIN MICRO BALL END MILLS

(product code P1C2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.043	1/8	0.129	1-1/2	std	AMG-.043-B	H1561	H1943	
0.044	1/8	0.132	1-1/2	std	AMG-.044-B	H1562	H1944	
0.045	1/8	0.068	1-1/2	stub	AMGS-.045-B	18817	58817	78817
0.045	1/8	0.135	1-1/2	std	AMG-.045-B	18818	58818	78818
0.046	1/8	0.138	1-1/2	std	AMG-.046-B	H1563	H1945	
0.047 (3/64)	1/8	0.071	1-1/2	stub	AMGS-.047-B	H1599	H1600	
0.047 (3/64)	1/8	0.141	1-1/2	std	AMG-.047-B	H1564	H1565	H1566
0.048	1/8	0.144	1-1/2	std	AMG-.048-B	H1567	H1946	
0.049	1/8	0.147	1-1/2	std	AMG-.049-B	H1568	H1947	
0.050	1/8	0.075	1-1/2	stub	AMGS-.050-B	18819	58819	78819
0.050	1/8	0.150	1-1/2	std	AMG-.050-B	13149	53149	73149
0.051	1/8	0.153	1-1/2	std	AMG-.051-B	H1569	H1948	
0.052	1/8	0.156	1-1/2	std	AMG-.052-B	H1570	H1949	
0.053	1/8	0.159	1-1/2	std	AMG-.053-B	H1571	H1950	
0.054	1/8	0.162	1-1/2	std	AMG-.054-B	H1572	H1951	
0.055	1/8	0.083	1-1/2	stub	AMGS-.055-B	18821	58821	78821
0.055	1/8	0.165	1-1/2	std	AMG-.055-B	18822	58822	78822
0.056	1/8	0.168	1-1/2	std	AMG-.056-B	H1573	H1952	
0.057	1/8	0.171	1-1/2	std	AMG-.057-B	H1574	H1953	
0.058	1/8	0.174	1-1/2	std	AMG-.058-B	H1575	H1954	
0.059	1/8	0.177	1-1/2	std	AMG-.059-B	H1576	H1955	
0.060	1/8	0.090	1-1/2	stub	AMGS-.060-B	18846	58846	78846
0.060	1/8	0.180	1-1/2	std	AMG-.060-B	13150	53150	73150
0.062 (1/16)	1/8	0.186	1-1/2	std	AMG-.062-B	H2008	H2009	H2010
0.062 (1/16)	1/8	0.093	1-1/2	stub	AMGS-.062-B	H1577	H1578	
0.065	1/8	0.098	1-1/2	stub	AMGS-.065-B	18847	58847	78847
0.065	1/8	0.195	1-1/2	std	AMG-.065-B	18848	58848	78848
0.070	1/8	0.105	1-1/2	stub	AMGS-.070-B	18849	58849	78849
0.070	1/8	0.210	1-1/2	std	AMG-.070-B	13151	53151	73151
0.075	1/8	0.113	1-1/2	stub	AMGS-.075-B	18850	58850	78850
0.075	1/8	0.225	1-1/2	std	AMG-.075-B	18851	58851	78851
0.078 (5/64)	1/8	0.117	1-1/2	stub	AMGS-.078-B	H1602	H1603	
0.078 (5/64)	1/8	0.234	1-1/2	std	AMG-.078-B	H1579	H1580	H1581
0.080	1/8	0.120	1-1/2	stub	AMGS-.080-B	18852	58852	78852
0.080	1/8	0.240	1-1/2	std	AMG-.080-B	13152	53152	73152
0.085	1/8	0.128	1-1/2	stub	AMGS-.085-B	18853	58853	78853
0.085	1/8	0.255	1-1/2	std	AMG-.085-B	18854	58854	78854
0.090	1/8	0.135	1-1/2	stub	AMGS-.090-B	18855	58855	78855
0.090	1/8	0.270	1-1/2	std	AMG-.090-B	13153	53153	73153

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Series: AMG-__-B

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.093 (3/32)	1/8	0.140	1-1/2	stub	AMGS-.093-B	H1604	H1605	
0.093 (3/32)	1/8	0.279	1-1/2	std	AMG-.093-B	H1582	H1583	H1584
0.095	1/8	0.143	1-1/2	stub	AMGS-.095-B	18856	58856	78856
0.095	1/8	0.285	1-1/2	std	AMG-.095-B	18857	58857	78857
0.100	1/8	0.150	1-1/2	stub	AMGS-.100-B	18858	58858	78858
0.100	1/8	0.300	1-1/2	std	AMG-.100-B	18859	58859	78859
0.105	1/8	0.315	1-1/2	std	AMG-.105-B	H1587	H1956	
0.110	1/8	0.330	1-1/2	std	AMG-.110-B	H1590	H1957	
0.115	1/8	0.345	1-1/2	std	AMG-.115-B	H1593	H2005	
0.118	1/8	0.177	1-1/2	stub	AMGS-.118-B	H1958	H2006	
0.118	1/8	0.354	1-1/2	std	AMG-.118-B	H1959	H1960	
0.120	1/8	0.360	1-1/2	std	AMG-.120-B	H1594	H2007	

LARGER Sizes In [Full Line](#) Catalog

NEED a different SIZE, STYLE or COATING? We are constantly adding standard items to our micro offering & we make CUSTOM designed tools with exceptionally fast deliveries. Contact your local distributor or email us at specials@melintool.com

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What You Are
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S E R I E S: AMG-___-B (metric)

2 FLUTE MELIN MICRO BALL END MILLS

(product code PIC2)



DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTiN EDP
0.2mm	3mm	0.4mm	38mm	std	AMG-M0.2-B	13677	53677
0.3mm	3mm	0.9mm	38mm	std	AMG-M0.3-B	13678	53678
0.4mm	3mm	1.2mm	38mm	std	AMG-M0.4-B	13679	53679
0.5mm	3mm	1.5mm	38mm	std	AMG-M0.5-B	13680	53680
0.6mm	3mm	1.8mm	38mm	std	AMG-M0.6-B	13681	53681
0.7mm	3mm	2.1mm	38mm	std	AMG-M0.7-B	13682	53682
0.8mm	3mm	2.4mm	38mm	std	AMG-M0.8-B	13683	53683
0.9mm	3mm	2.7mm	38mm	std	AMG-M0.9-B	13684	53684
1.0mm	3mm	3.0mm	38mm	std	AMG-M3M1-B	16805	56805
1.1mm	3mm	3.3 mm	38mm	std	AMG-M1.1-B	13686	53686
1.2mm	3mm	3.6mm	38mm	std	AMG-M1.2-B	13687	53687
1.3mm	3mm	3.9mm	38mm	std	AMG-M1.3-B	13688	53688
1.4mm	3mm	4.2mm	38mm	std	AMG-M1.4-B	13689	53689
1.5mm	3mm	4.5mm	38mm	std	AMG-M1.5-B	13690	53690



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S E R I E S: EMG

3 FLUTE MELIN SQUARE AND BALL MICRO END MILLS

NEW Melin 3 Flute offered in both square and ball end tools. This series ranges from standard, stub flute, long reach stub flute, long reach, and extended long reach. With Melin's in house coating capabilities, all tools listed are available bright or can be ordered with any Melin coating.



(For larger diameters, please see full line catalog)



- Available from 0.010 - 0.250
- Length of cut 1.5xD, 5xD-10xD & 12xD
- Center cutting
- Extended Neck Styles with LBS
(length below shank) range from
3xD - 25xD
- Bright, AlTiN, & Amorphous (DLC)
Diamond
additional coatings available on request
- Made from premium sub micron grain
carbide

ALL LENGTHS - SQUARE END BALL END

Premium 3 Flute Carbide Micro End Mills. This is our NEWEST series to the micro line.

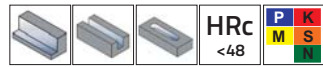
Extended Neck styles enables step down milling paths, with higher feed rates. Ideal for **profiling, slotting and plunging**. Manufactured in Cleveland, OH.

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SERIES: EMG

3 FLUTE MELIN MICRO SQUARE END MILLS

(product code PIC2)



DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.010	1/8	0.015 (1.5x)	0.030 (3x)	2-1/2	EMGN-.010-SF3	H0594	H0930	
0.010	1/8	0.015 (1.5x)	0.050 (5x)	2-1/2	EMGN-.010-SF5	H0595	H0931	H1249
0.010	1/8	0.015 (1.5x)	0.080 (8x)	2-1/2	EMGN-.010-SF8	H0596	H0932	H1250
0.010	1/8	0.015 (1.5x)	0.125 (12x)	2-1/2	EMGN-.010-SF12	H0597	H0933	H1251
0.010	1/8	0.015 (1.5x)	0.150 (15x)	2-1/2	EMGN-.010-SF15	H0598	H0934	
0.010	1/8	0.050 (5x)		2-1/2	EMG-.010-LF5	H0001	H0225	H0449
0.010	1/8	0.050 (5x)	0.100 (10x)	2-1/2	EMGN-.010	H0103	H0327	H0495
0.010	1/8	0.080 (8x)		2-1/2	EMG-.010-LF8	H0002	H0226	
0.015 (1/64)	1/8	0.022 (1.5x)	0.045 (3x)	2-1/2	EMGN-.015-SF3	H0599	H0935	
0.015 (1/64)	1/8	0.022 (1.5x)	0.078 (5x)	2-1/2	EMGN-.015-SF5	H0600	H0936	H1252
0.015 (1/64)	1/8	0.022 (1.5x)	0.125 (8x)	2-1/2	EMGN-.015-SF8	H0601	H0937	H1253
0.015 (1/64)	1/8	0.022 (1.5x)	0.156 (10x)	2-1/2	EMGN-.015-SF10	H0602	H0938	
0.015 (1/64)	1/8	0.022 (1.5x)	0.187 (12x)	2-1/2	EMGN-.015-SF12	H0603	H0939	H1254
0.015 (1/64)	1/8	0.022 (1.5x)	0.225 (15x)	2-1/2	EMGN-.015-SF15	H0604	H0940	H1255
0.015 (1/64)	1/8	0.022 (1.5x)	0.270 (18x)	2-1/2	EMGN-.015-SF18	H0605	H0941	
0.015 (1/64)	1/8	0.022 (1.5x)	0.300 (20x)	2-1/2	EMGN-.015-SF20	H0606	H0942	
0.015 (1/64)	1/8	0.022 (1.5x)	0.375 (25x)	2-1/2	EMGN-.015-SF25	H0607	H0943	
0.015 (1/64)	1/8	0.078 (5x)		2-1/2	EMG-.015-LF5	H0003	H0227	H0450
0.015 (1/64)	1/8	0.078 (5x)	0.150 (10x)	2-1/2	EMGN-.015	H0104	H0328	H0496
0.015 (1/64)	1/8	0.125 (8x)		2-1/2	EMG-.015-LF8	H0004	H0228	H0451
0.015 (1/64)	1/8	0.187 (12x)		2-1/2	EMG-.015-LF12	H0005	H0229	
0.020	1/8	0.030 (1.5x)	0.060 (3x)	2-1/2	EMGN-.020-SF3	H0608	H0944	
0.020	1/8	0.030 (1.5x)	0.100 (5x)	2-1/2	EMGN-.020-SF5	H0609	H0945	H1256
0.020	1/8	0.030 (1.5x)	0.160 (8x)	2-1/2	EMGN-.020-SF8	H0610	H0946	H1257
0.020	1/8	0.030 (1.5x)	0.200 (10x)	2-1/2	EMGN-.020-SF10	H0611	H0947	
0.020	1/8	0.030 (1.5x)	0.250 (12x)	2-1/2	EMGN-.020-SF12	H0612	H0948	H1258

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Series: EMG

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.020	1/8	0.030 (1.5x)	0.300 (15x)	2-1/2	EMGN-.020-SF15	H0613	H0949	H1259
0.020	1/8	0.030 (1.5x)	0.400 (20x)	2-1/2	EMGN-.020-SF20	H0614	H0950	
0.020	1/8	0.030 (1.5x)	0.500 (25x)	2-1/2	EMGN-.020-SF25	H0615	H0951	
0.020	1/8	0.100 (5x)		2-1/2	EMG-.020-LF5	H0006	H0230	H0452
0.020	1/8	0.100 (5x)	0.200 (10x)	2-1/2	EMGN-.020	H0105	H0329	H0497
0.020	1/8	0.160 (8x)		2-1/2	EMG-.020-LF8	H0007	H0231	
0.020	1/8	0.250 (12x)		2-1/2	EMG-.020-LF12	H0008	H0232	
0.025	1/8	0.037 (1.5x)	0.075 (3x)	2-1/2	EMGN-.025-SF3	H0616	H0952	
0.025	1/8	0.037 (1.5x)	0.125 (5x)	2-1/2	EMGN-.025-SF5	H0617	H0953	H1260
0.025	1/8	0.037 (1.5x)	0.203 (8x)	2-1/2	EMGN-.025-SF8	H0618	H0954	H1261
0.025	1/8	0.037 (1.5x)	0.250 (10x)	2-1/2	EMGN-.025-SF10	H0619	H0955	
0.025	1/8	0.037 (1.5x)	0.312 (12x)	2-1/2	EMGN-.025-SF12	H0620	H0956	H1262
0.025	1/8	0.037 (1.5x)	0.375 (15x)	2-1/2	EMGN-.025-SF15	H0621	H0957	H1263
0.025	1/8	0.037 (1.5x)	0.500 (20x)	2-1/2	EMGN-.025-SF20	H0622	H0958	
0.025	1/8	0.037 (1.5x)	0.625 (25x)	2-1/2	EMGN-.025-SF25	H0623	H0959	
0.025	1/8	0.125 (5x)		2-1/2	EMG-.025-LF5	H0009	H0233	H0453
0.025	1/8	0.125 (5x)	0.250 (10x)	2-1/2	EMGN-.025	H0106	H0330	H0498
0.025	1/8	0.203 (8x)		2-1/2	EMG-.025-LF8	H0010	H0234	
0.025	1/8	0.312 (12x)		2-1/2	EMG-.025-LF12	H0011	H0235	
0.030	1/8	0.045 (1.5x)	0.090 (3x)	2-1/2	EMGN-.030-SF3	H0624	H0960	
0.030	1/8	0.045 (1.5x)	0.156 (5x)	2-1/2	EMGN-.030-SF5	H0625	H0961	H1264
0.030	1/8	0.045 (1.5x)	0.250 (8x)	2-1/2	EMGN-.030-SF8	H0626	H0962	H1265
0.030	1/8	0.045 (1.5x)	0.312 (10x)	2-1/2	EMGN-.030-SF10	H0627	H0963	
0.030	1/8	0.045 (1.5x)	0.375 (12x)	2-1/2	EMGN-.030-SF12	H0628	H0964	H1266
0.030	1/8	0.045 (1.5x)	0.450 (15x)	2-1/2	EMGN-.030-SF15	H0629	H0965	
0.030	1/8	0.045 (1.5x)	0.600 (20x)	2-1/2	EMGN-.030-SF20	H0630	H0966	
0.030	1/8	0.150 (5x)		2-1/2	EMG-.030-LF5	H0012	H0236	H0454
0.030	1/8	0.150 (5x)	0.300 (10x)	2-1/2	EMGN-.030	H0107	H0331	H0499
0.030	1/8	0.250 (8x)		2-1/2	EMG-.030-LF8	H0013	H0237	
0.030	1/8	0.375 (12x)		2-1/2	EMG-.030-LF12	H0014	H0238	
0.031 (1/32)	1/8	0.046 (1.5x)	0.093 (3x)	2-1/2	EMGN-.031-SF3	H0631	H0967	
0.031 (1/32)	1/8	0.046 (1.5x)	0.156 (5x)	2-1/2	EMGN-.031-SF5	H0632	H0968	H1267
0.031 (1/32)	1/8	0.046 (1.5x)	0.250 (8x)	2-1/2	EMGN-.031-SF8	H0633	H0969	H1268
0.031 (1/32)	1/8	0.046 (1.5x)	0.312 (10x)	2-1/2	EMGN-.031-SF10	H0634	H0970	
0.031 (1/32)	1/8	0.046 (1.5x)	0.375 (12x)	2-1/2	EMGN-.031-SF12	H0635	H0971	H1269
0.031 (1/32)	1/8	0.046 (1.5x)	0.470 (15x)	2-1/2	EMGN-.031-SF15	H0636	H0972	H1270
0.031 (1/32)	1/8	0.046 (1.5x)	0.565 (18x)	2-1/2	EMGN-.031-SF18	H0637	H0973	
0.031 (1/32)	1/8	0.046 (1.5x)	0.625 (20x)	2-1/2	EMGN-.031-SF20	H0638	H0974	
0.031 (1/32)	1/8	0.046 (1.5x)	0.687 (22x)	2-1/2	EMGN-.031-SF22	H0639	H0975	
0.031 (1/32)	1/8	0.046 (1.5x)	0.775 (25x)	2-1/2	EMGN-.031-SF25	H0640	H0976	
0.031 (1/32)	1/8	0.046 (1.5x)	0.937 (30x)	2-1/2	EMGN-.031-SF30	H0641	H2020	
0.031 (1/32)	1/8	0.156 (5x)		2-1/2	EMG-.031-LF5	H0015	H0239	H0455
0.031 (1/32)	1/8	0.156 (5x)	0.310 (10x)	2-1/2	EMGN-.031	H0108	H0332	H0500

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S E R I E S: EMG

3 FLUTE MELIN MICRO SQUARE END MILLS

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.031 (1/32)	1/8	0.250 (8x)		2-1/2	EMG-.031-LF8	H0016	H0240	H0456
0.031 (1/32)	1/8	0.312 (10x)		2-1/2	EMG-.031-LF10	H0017	H0241	
0.031 (1/32)	1/8	0.375 (12x)		2-1/2	EMG-.031-LF12	H0018	H0242	H0457
0.031 (1/32)	1/8	0.470 (15x)		2-1/2	EMG-.031-LF15	H0019	H0243	
0.035	1/8	0.052 (1.5x)	0.105 (3x)	2-1/2	EMGN-.035-SF3	H0642	H0977	
0.035	1/8	0.052 (1.5x)	0.187 (5x)	2-1/2	EMGN-.035-SF5	H0643	H0978	H1271
0.035	1/8	0.052 (1.5x)	0.281 (8x)	2-1/2	EMGN-.035-SF8	H0644	H0979	H1272
0.035	1/8	0.052 (1.5x)	0.350 (10x)	2-1/2	EMGN-.035-SF10	H0645	H0980	
0.035	1/8	0.052 (1.5x)	0.425 (12x)	2-1/2	EMGN-.035-SF12	H0646	H0981	H1273
0.035	1/8	0.052 (1.5x)	0.525 (15x)	2-1/2	EMGN-.035-SF15	H0647	H0982	
0.035	1/8	0.052 (1.5x)	0.700 (20x)	2-1/2	EMGN-.035-SF20	H0648	H0983	
0.035	1/8	0.175 (5x)		2-1/2	EMG-.035-LF5	H0020	H0244	H0458
0.035	1/8	0.175 (5x)	0.350 (10x)	2-1/2	EMGN-.035	H0109	H0333	H0501
0.035	1/8	0.280 (8x)		2-1/2	EMG-.035-LF8	H0021	H0245	
0.035	1/8	0.425 (12x)		2-1/2	EMG-.035-LF12	H0022	H0246	
0.039	1/8	0.059 (1.5x)	0.117 (3x)	2-1/2	EMGN-.039-SF3	H0649	H0984	
0.039	1/8	0.059 (1.5x)	0.203 (5x)	2-1/2	EMGN-.039-SF5	H0650	H0985	
0.039	1/8	0.059 (1.5x)	0.325 (8x)	2-1/2	EMGN-.039-SF8	H0651	H0986	
0.039	1/8	0.059 (1.5x)	0.480 (12x)	2-1/2	EMGN-.039-SF12	H0652	H0987	
0.039	1/8	0.203 (5x)		2-1/2	EMG-.039-LF5	H0023	H0247	
0.039	1/8	0.325 (8x)		2-1/2	EMG-.039-LF8	H0024	H0248	
0.040	1/8	0.060 (1.5x)	0.120 (3x)	2-1/2	EMGN-.040-SF3	H0653	H0988	
0.040	1/8	0.060 (1.5x)	0.203 (5x)	2-1/2	EMGN-.040-SF5	H0654	H0989	H1274
0.040	1/8	0.060 (1.5x)	0.325 (8x)	2-1/2	EMGN-.040-SF8	H0655	H0990	H1275
0.040	1/8	0.060 (1.5x)	0.400 (10x)	2-1/2	EMGN-.040-SF10	H0656	H0991	
0.040	1/8	0.060 (1.5x)	0.480 (12x)	2-1/2	EMGN-.040-SF12	H0657	H0992	H1276
0.040	1/8	0.060 (1.5x)	0.600 (15x)	2-1/2	EMGN-.040-SF15	H0658	H0993	
0.040	1/8	0.060 (1.5x)	0.800 (20x)	2-1/2	EMGN-.040-SF20	H0659	H0994	
0.040	1/8	0.060 (1.5x)	1.000 (25x)	2-1/2	EMGN-.040-SF25	H0660	H0995	
0.040	1/8	0.200 (5x)		2-1/2	EMG-.040-LF5	H0025	H0249	H0459
0.040	1/8	0.200 (5x)	0.400 (10x)	2-1/2	EMGN-.040	H0110	H0334	H0502
0.040	1/8	0.325 (8x)		2-1/2	EMG-.040-LF8	H0026	H0250	
0.040	1/8	0.480 (12x)		2-1/2	EMG-.040-LF12	H0027	H0251	
0.045	1/8	0.067 (1.5x)	0.135 (3x)	2-1/2	EMGN-.045-SF3	H0661	H0996	
0.045	1/8	0.067 (1.5x)	0.225 (5x)	2-1/2	EMGN-.045-SF5	H0662	H0997	H1277
0.045	1/8	0.067 (1.5x)	0.375 (8x)	2-1/2	EMGN-.045-SF8	H0663	H0998	H1278
0.045	1/8	0.067 (1.5x)	0.450 (10x)	2-1/2	EMGN-.045-SF10	H0664	H0999	
0.045	1/8	0.067 (1.5x)	0.550 (12x)	2-1/2	EMGN-.045-SF12	H0665	H1000	H1279
0.045	1/8	0.067 (1.5x)	0.680 (15x)	2-1/2	EMGN-.045-SF15	H0666	H1001	

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Series: EMG

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.045	1/8	0.067 (1.5x)	0.900 (20x)	2-1/2	EMGN-.045-SF20	H0667	H1002	
0.045	1/8	0.225 (5x)		2-1/2	EMG-.045-LF5	H0028	H0252	H0460
0.045	1/8	0.225 (5x)	0.450 (10x)	2-1/2	EMGN-.045	H0111	H0335	H0503
0.045	1/8	0.375 (8x)		2-1/2	EMG-.045-LF8	H0029	H0253	
0.045	1/8	0.550 (12x)		2-1/2	EMG-.045-LF12	H0030	H0254	
0.047 (3/64)	1/8	0.070 (1.5x)	0.141 (3x)	2-1/2	EMGN-.047-SF3	H0668	H1003	
0.047 (3/64)	1/8	0.070 (1.5x)	0.250 (5x)	2-1/2	EMGN-.047-SF5	H0669	H1004	H1280
0.047 (3/64)	1/8	0.070 (1.5x)	0.375 (8x)	2-1/2	EMGN-.047-SF8	H0670	H1005	H1281
0.047 (3/64)	1/8	0.070 (1.5x)	0.480 (10x)	2-1/2	EMGN-.047-SF10	H0671	H1006	
0.047 (3/64)	1/8	0.070 (1.5x)	0.570 (12x)	2-1/2	EMGN-.047-SF12	H0672	H1007	H1282
0.047 (3/64)	1/8	0.070 (1.5x)	0.710 (15x)	2-1/2	EMGN-.047-SF15	H0673	H1008	
0.047 (3/64)	1/8	0.070 (1.5x)	0.850 (18x)	2-1/2	EMGN-.047-SF18	H0674	H1009	
0.047 (3/64)	1/8	0.070 (1.5x)	0.950 (20x)	2-1/2	EMGN-.047-SF20	H0675	H1010	
0.047 (3/64)	1/8	0.070 (1.5x)	1.187 (25x)	2-1/2	EMGN-.047-SF25	H0676	H1011	
0.047 (3/64)	1/8	0.070 (1.5x)	1.406 (30x)	2-1/2	EMGN-.047-SF30	H0677	H2021	
0.047 (3/64)	1/8	0.250 (5x)		2-1/2	EMG-.047-LF5	H0031	H0255	H0461
0.047 (3/64)	1/8	0.250 (5x)	0.500 (10x)	2-1/2	EMGN-.047	H0112	H0336	H0504
0.047 (3/64)	1/8	0.375 (8x)		2-1/2	EMG-.047-LF8	H0032	H0256	H0462
0.047 (3/64)	1/8	0.480 (10x)		2-1/2	EMG-.047-LF10	H0033	H0257	
0.047 (3/64)	1/8	0.570 (12x)		2-1/2	EMG-.047-LF12	H0034	H0258	H0463
0.047 (3/64)	1/8	0.710 (15x)		2-1/2	EMG-.047-LF15	H0035	H0259	
0.050	1/8	0.075 (1.5x)	0.150 (3x)	2-1/2	EMGN-.050-SF3	H0678	H1012	
0.050	1/8	0.075 (1.5x)	0.250 (5x)	2-1/2	EMGN-.050-SF5	H0679	H1013	H1283
0.050	1/8	0.075 (1.5x)	0.400 (8x)	2-1/2	EMGN-.050-SF8	H0680	H1014	H1284
0.050	1/8	0.075 (1.5x)	0.500 (10x)	2-1/2	EMGN-.050-SF10	H0681	H1015	
0.050	1/8	0.075 (1.5x)	0.600 (12x)	2-1/2	EMGN-.050-SF12	H0682	H1016	H1285
0.050	1/8	0.075 (1.5x)	0.750 (15x)	2-1/2	EMGN-.050-SF15	H0683	H1017	
0.050	1/8	0.300 (6x)		2-1/2	EMG-.050-LF6	H0036	H0260	H0464
0.050	1/8	0.300 (6x)	0.600 (12x)	2-1/2	EMGN-.050	H0113	H0337	H0505
0.050	1/8	0.400 (8x)		2-1/2	EMG-.050-LF8	H0037	H0261	
0.050	1/8	0.600 (12x)		2-1/2	EMG-.050-LF12	H0038	H0262	
0.055	1/8	0.082 (1.5x)	0.165 (3x)	2-1/2	EMGN-.055-SF3	H0684	H1018	
0.055	1/8	0.082 (1.5x)	0.275 (5x)	2-1/2	EMGN-.055-SF5	H0685	H1019	H1286
0.055	1/8	0.082 (1.5x)	0.450 (8x)	2-1/2	EMGN-.055-SF8	H0686	H1020	H1287
0.055	1/8	0.082 (1.5x)	0.560 (10x)	2-1/2	EMGN-.055-SF10	H0687	H1021	
0.055	1/8	0.082 (1.5x)	0.660 (12x)	2-1/2	EMGN-.055-SF12	H0688	H1022	H1288
0.055	1/8	0.082 (1.5x)	0.825 (15x)	2-1/2	EMGN-.055-SF15	H0689	H1023	
0.055	1/8	0.275 (5x)		2-1/2	EMG-.055-LF5	H0039	H0263	
0.055	1/8	0.385 (7x)		2-1/2	EMG-.055-LF7	H0040	H0264	H0465
0.055	1/8	0.385 (7x)	0.770 (14x)	2-1/2	EMGN-.055	H0114	H0338	H0506
0.055	1/8	0.660 (12x)		2-1/2	EMG-.055-LF12	H0041	H0265	

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SERIES: EMG

3 FLUTE MELIN MICRO SQUARE END MILLS

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.060	1/8	0.090 (1.5x)	0.180 (3x)	2-1/2	EMGN-.060-SF3	H0690	H1024	
0.060	1/8	0.090 (1.5x)	0.312 (5x)	2-1/2	EMGN-.060-SF5	H0691	H1025	H1289
0.060	1/8	0.090 (1.5x)	0.500 (8x)	2-1/2	EMGN-.060-SF8	H0692	H1026	H1290
0.060	1/8	0.090 (1.5x)	0.625 (10x)	2-1/2	EMGN-.060-SF10	H0693	H1027	
0.060	1/8	0.090 (1.5x)	0.720 (12x)	2-1/2	EMGN-.060-SF12	H0694	H1028	H1291
0.060	1/8	0.090 (1.5x)	0.900 (15x)	2-1/2	EMGN-.060-SF15	H0695	H1029	
0.060	1/8	0.090 (1.5x)	1.200 (20x)	2-1/2	EMGN-.060-SF20	H0696	H1030	
0.060	1/8	0.312 (5x)		2-1/2	EMG-.060-LF5	H0042	H0266	
0.060	1/8	0.500 (8x)		2-1/2	EMG-.060-LF8	H0043	H0267	H0466
0.060	1/8	0.500 (8x)	1.000 (16x)	2-1/2	EMGN-.060	H0115	H0339	H0507
0.060	1/8	0.720 (12x)		2-1/2	EMG-.060-LF12	H0044	H0268	
0.062 (1/16)	1/8	0.093 (1.5x)	0.186 (3x)	2-1/2	EMGN-.062-SF3	H0697	H1031	
0.062 (1/16)	1/8	0.093 (1.5x)	0.312 (5x)	2-1/2	EMGN-.062-SF5	H0698	H1032	H1292
0.062 (1/16)	1/8	0.093 (1.5x)	0.500 (8x)	2-1/2	EMGN-.062-SF8	H0699	H1033	H1293
0.062 (1/16)	1/8	0.093 (1.5x)	0.625 (10x)	2-1/2	EMGN-.062-SF10	H0700	H1034	
0.062 (1/16)	1/8	0.093 (1.5x)	0.750 (12x)	2-1/2	EMGN-.062-SF12	H0701	H1035	H1294
0.062 (1/16)	1/8	0.093 (1.5x)	0.950 (15x)	2-1/2	EMGN-.062-SF15	H0702	H1036	H1295
0.062 (1/16)	1/8	0.093 (1.5x)	1.125 (18x)	2-1/2	EMGN-.062-SF18	H0703	H1037	
0.062 (1/16)	1/8	0.093 (1.5x)	1.250 (20x)	2-1/2	EMGN-.062-SF20	H0704	H1038	
0.062 (1/16)	1/8	0.093 (1.5x)	1.375 (22x)	3	EMGN-.062-SF22	H0705	H1039	
0.062 (1/16)	1/8	0.093 (1.5x)	1.550 (25x)	3	EMGN-.062-SF25	H0706	H1040	
0.062 (1/16)	1/8	0.093 (1.5x)	1.875 (30x)	3	EMGN-.062-SF30	H0707	H2022	
0.062 (1/16)	1/8	0.312 (5x)		2-1/2	EMG-.062-LF5	H0045	H0269	H0467
0.062 (1/16)	1/8	0.500 (8x)		2-1/2	EMG-.062-LF8	H0046	H0270	H0468
0.062 (1/16)	1/8	0.500 (8x)	1.000 (16x)	2-1/2	EMGN-.062	H0116	H0340	H0508
0.062 (1/16)	1/8	0.625 (10x)		2-1/2	EMG-.062-LF10	H0047	H0271	
0.062 (1/16)	1/8	0.750 (12x)		2-1/2	EMG-.062-LF12	H0048	H0272	H0469
0.062 (1/16)	1/8	0.950 (15x)		2-1/2	EMG-.062-LF15	H0049	H0273	H0470
0.065	1/8	0.097 (1.5x)	0.325 (5x)	2-1/2	EMGN-.065-SF5	H0708	H1041	
0.065	1/8	0.097 (1.5x)	0.530 (8x)	2-1/2	EMGN-.065-SF8	H0709	H1042	H1296
0.065	1/8	0.097 (1.5x)	0.800 (12x)	2-1/2	EMGN-.065-SF12	H0710	H1043	
0.065	1/8	0.325 (5x)		2-1/2	EMG-.065-LF5	H0050	H0274	
0.065	1/8	0.500 (8x)		2-1/2	EMG-.065-LF8	H0051	H0275	H0471
0.065	1/8	0.500 (8x)	1.000 (15x)	2-1/2	EMGN-.065	H0117	H0341	H0509
0.070	1/8	0.105 (1.5x)	0.375 (5x)	2-1/2	EMGN-.070-SF5	H0711	H1044	
0.070	1/8	0.105 (1.5x)	0.570 (8x)	2-1/2	EMGN-.070-SF8	H0712	H1045	H1297
0.070	1/8	0.105 (1.5x)	0.850 (12x)	2-1/2	EMGN-.070-SF12	H0713	H1046	
0.070	1/8	0.105 (1.5x)	1.062 (15x)	2-1/2	EMGN-.070-SF15	H0714	H1047	
0.070	1/8	0.375 (5x)		2-1/2	EMG-.070-LF5	H0052	H0276	

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Series: EMG

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.070	1/8	0.500 (7x)		2-1/2	EMG-.070-LF7	H0053	H0277	H0472
0.070	1/8	0.500 (7x)	1.000 (14x)	2-1/2	EMGN-.070	H0118	H0342	H0510
0.070	1/8	0.850 (12x)		2-1/2	EMG-.070-LF12	H0054	H0278	
0.075	1/8	0.112 (1.5x)	0.375 (5x)	2-1/2	EMGN-.075-SF5	H0715	H1048	
0.075	1/8	0.112 (1.5x)	0.625 (8x)	2-1/2	EMGN-.075-SF8	H0716	H1049	H1298
0.075	1/8	0.112 (1.5x)	0.900 (12x)	2-1/2	EMGN-.075-SF12	H0717	H1050	
0.075	1/8	0.375 (5x)		2-1/2	EMG-.075-LF5	H0055	H0279	
0.075	1/8	0.500 (7x)		2-1/2	EMG-.075-LF7	H0056	H0280	H0473
0.075	1/8	0.500 (7x)	1.000 (13x)	2-1/2	EMGN-.075	H0119	H0343	H0511
0.075	1/8	0.900 (12x)		2-1/2	EMG-.075-LF12	H0057	H0281	
0.078 (5/64)	1/8	0.117 (1.5x)	0.234 (3x)	2-1/2	EMGN-.078-SF3	H0718	H1051	
0.078 (5/64)	1/8	0.117 (1.5x)	0.406 (5x)	2-1/2	EMGN-.078-SF5	H0719	H1052	H1299
0.078 (5/64)	1/8	0.117 (1.5x)	0.625 (8x)	2-1/2	EMGN-.078-SF8	H0720	H1053	H1300
0.078 (5/64)	1/8	0.117 (1.5x)	0.800 (10x)	2-1/2	EMGN-.078-SF10	H0721	H1054	
0.078 (5/64)	1/8	0.117 (1.5x)	0.940 (12x)	2-1/2	EMGN-.078-SF12	H0722	H1055	H1301
0.078 (5/64)	1/8	0.117 (1.5x)	1.187 (15x)	2-1/2	EMGN-.078-SF15	H0723	H1056	
0.078 (5/64)	1/8	0.117 (1.5x)	1.400 (18x)	3	EMGN-.078-SF18	H0724	H1057	
0.078 (5/64)	1/8	0.117 (1.5x)	1.562 (20x)	3	EMGN-.078-SF20	H0725	H1058	
0.078 (5/64)	1/8	0.117 (1.5x)	1.950 (25x)	3	EMGN-.078-SF25	H0726	H1059	
0.078 (5/64)	1/8	0.117 (1.5x)	2.343 (30x)	4	EMGN-.078-SF30	H0727	H2023	
0.078 (5/64)	1/8	0.406 (5x)		2-1/2	EMG-.078-LF5	H0058	H0282	H0474
0.078 (5/64)	1/8	0.500 (6x)	1.000 (12x)	2-1/2	EMGN-.078	H0120	H0344	H0512
0.078 (5/64)	1/8	0.625 (8x)		2-1/2	EMG-.078-LF8	H0059	H0283	H0475
0.078 (5/64)	1/8	0.800 (10x)		2-1/2	EMG-.078-LF10	H0060	H0284	
0.078 (5/64)	1/8	0.940 (12x)		2-1/2	EMG-.078-LF12	H0061	H0285	H0476
0.078 (5/64)	1/8	1.187 (15x)		2-1/2	EMG-.078-LF15	H0062	H0286	H0477
0.080	1/8	0.120 (1.5x)	0.406 (5x)	2-1/2	EMGN-.080-SF5	H0728	H1060	
0.080	1/8	0.120 (1.5x)	0.650 (8x)	2-1/2	EMGN-.080-SF8	H0729	H1061	H1302
0.080	1/8	0.120 (1.5x)	0.960 (12x)	2-1/2	EMGN-.080-SF12	H0730	H1062	
0.080	1/8	0.406 (5x)		2-1/2	EMG-.080-LF5	H0063	H0287	
0.080	1/8	0.750 (9x)		2-1/2	EMG-.080-LF9	H0064	H0288	H0478
0.080	1/8	0.750 (9x)	1.250 (15x)	2-1/2	EMGN-.080	H0121	H0345	H0513
0.080	1/8	0.960 (12x)		2-1/2	EMG-.080-LF12	H0065	H0289	
0.085	1/8	0.127 (1.5x)	0.425 (5x)	2-1/2	EMGN-.085-SF5	H0731	H1063	
0.085	1/8	0.127 (1.5x)	0.700 (8x)	2-1/2	EMGN-.085-SF8	H0732	H1064	H1303
0.085	1/8	0.127 (1.5x)	1.020 (12x)	2-1/2	EMGN-.085-SF12	H0733	H1065	
0.085	1/8	0.425 (5x)		2-1/2	EMG-.085-LF5	H0066	H0290	
0.085	1/8	0.750 (9x)		2-1/2	EMG-.085-LF9	H0067	H0291	H0479
0.085	1/8	0.750 (9x)	1.250 (14x)	2-1/2	EMGN-.085	H0122	H0346	H0514

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S E R I E S: EMG

3 FLUTE MELIN MICRO SQUARE END MILLS

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂ +.010/- .000	LBS L ₃ +.010/- .000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.090	1/8	0.135 (1.5x)	0.450 (5x)	2-1/2	EMGN-.090-SF5	H0734	H1066	
0.090	1/8	0.135 (1.5x)	0.750 (8x)	2-1/2	EMGN-.090-SF8	H0735	H1067	H1304
0.090	1/8	0.135 (1.5x)	1.080 (12x)	2-1/2	EMGN-.090-SF12	H0736	H1068	
0.090	1/8	0.450 (5x)		2-1/2	EMG-.090-LF5	H0068	H0292	
0.090	1/8	0.750 (8x)		2-1/2	EMG-.090-LF8	H0069	H0293	H0480
0.090	1/8	0.750 (8x)	1.250 (13x)	2-1/2	EMGN-.090	H0123	H0347	H0515
0.090	1/8	1.080 (12x)		2-1/2	EMG-.090-LF12	H0070	H0294	
0.093 (3/32)	1/8	0.139 (1.5x)	0.279 (3x)	2-1/2	EMGN-.093-SF3	H0737	H1069	
0.093 (3/32)	1/8	0.139 (1.5x)	0.500 (5x)	2-1/2	EMGN-.093-SF5	H0738	H1070	H1305
0.093 (3/32)	1/8	0.139 (1.5x)	0.750 (8x)	2-1/2	EMGN-.093-SF8	H0739	H1071	H1306
0.093 (3/32)	1/8	0.139 (1.5x)	0.950 (10x)	2-1/2	EMGN-.093-SF10	H0740	H1072	
0.093 (3/32)	1/8	0.139 (1.5x)	1.125 (12x)	2-1/2	EMGN-.093-SF12	H0741	H1073	H1307
0.093 (3/32)	1/8	0.139 (1.5x)	1.400 (15x)	3	EMGN-.093-SF15	H0742	H1074	H1308
0.093 (3/32)	1/8	0.139 (1.5x)	1.675 (18x)	3	EMGN-.093-SF18	H0743	H1075	
0.093 (3/32)	1/8	0.139 (1.5x)	1.875 (20x)	4	EMGN-.093-SF20	H0744	H1076	
0.093 (3/32)	1/8	0.139 (1.5x)	2.312 (25x)	4	EMGN-.093-SF25	H0745	H1077	
0.093 (3/32)	1/8	0.139 (1.5x)	2.812 (30x)	4	EMGN-.093-SF30	H0746	H2024	
0.093 (3/32)	1/8	0.500 (5x)		2-1/2	EMG-.093-LF5	H0071	H0295	H0481
0.093 (3/32)	1/8	0.750 (8x)		2-1/2	EMG-.093-LF8	H0072	H0296	H0482
0.093 (3/32)	1/8	0.750 (8x)	1.250 (13x)	2-1/2	EMGN-.093	H0124	H0348	H0516
0.093 (3/32)	1/8	0.950 (10x)		2-1/2	EMG-.093-LF10	H0073	H0297	
0.093 (3/32)	1/8	1.125 (12x)		2-1/2	EMG-.093-LF12	H0074	H0298	H0483
0.093 (3/32)	1/8	1.400 (15x)		3	EMG-.093-LF15	H0075	H0299	H0484
0.095	1/8	0.142 (1.5x)	0.500 (5x)	2-1/2	EMGN-.095-SF5	H0747	H1078	
0.095	1/8	0.142 (1.5x)	0.750 (8x)	2-1/2	EMGN-.095-SF8	H0748	H1079	H1309
0.095	1/8	0.142 (1.5x)	1.150 (12x)	2-1/2	EMGN-.095-SF12	H0749	H1080	
0.095	1/8	0.500 (5x)		2-1/2	EMG-.095-LF5	H0076	H0300	
0.095	1/8	0.750 (8x)		2-1/2	EMG-.095-LF8	H0077	H0301	H0485
0.095	1/8	0.750 (8x)	1.250 (13x)	2-1/2	EMGN-.095	H0125	H0349	H0517
0.100	1/8	0.150 (1.5x)	0.500 (5x)	2-1/2	EMGN-.100-SF5	H0750	H1081	
0.100	1/8	0.150 (1.5x)	0.800 (8x)	2-1/2	EMGN-.100-SF8	H0751	H1082	H1310
0.100	1/8	0.150 (1.5x)	1.200 (12x)	2-1/2	EMGN-.100-SF12	H0752	H1083	
0.100	1/8	0.150 (1.5x)	1.500 (15x)	3	EMGN-.100-SF15	H0753	H1084	
0.100	1/8	0.500 (5x)		2-1/2	EMG-.100-LF5	H0078	H0302	
0.100	1/8	0.750 (7.5x)		2-1/2	EMG-.100-LF7.5	H0079	H0303	H0486
0.100	1/8	0.750 (7.5x)	1.250 (12x)	2-1/2	EMGN-.100	H0126	H0350	H0518
0.100	1/8	1.200 (12x)		2-1/2	EMG-.100-LF12	H0080	H0304	
0.109 (7/64)	1/8	0.163 (1.5x)	0.570 (5x)	2-1/2	EMGN-.109-SF5	H0754	H1085	
0.109 (7/64)	1/8	0.163 (1.5x)	0.900 (8x)	2-1/2	EMGN-.109-SF8	H0755	H1086	

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3 FL - Micro Square End Mills



Series: EMG

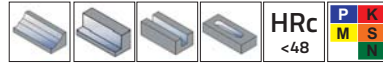
(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.109 (7/64)	1/8	0.570 (5x)		2-1/2	EMG-.109-LF5	H0081	H0305	
0.109 (7/64)	1/8	0.900 (8x)		2-1/2	EMG-.109-LF8	H0082	H0306	
0.118	1/8	0.177 (1.5x)	0.625 (5x)	2-1/2	EMGN-.118-SF5	H0756	H1087	
0.118	1/8	0.177 (1.5x)	0.950 (8x)	2-1/2	EMGN-.118-SF8	H0757	H1088	
0.118	1/8	0.177 (1.5x)	1.420 (12x)	3	EMGN-.118-SF12	H0758	H1089	
0.118	1/8	0.625 (5x)		2-1/2	EMG-.118-LF5	H0083	H0307	
0.118	1/8	0.950 (8x)		2-1/2	EMG-.118-LF8	H0084	H0308	
0.125 (1/8)	1/8	0.187 (1.5x)	0.375 (3x)	2-1/2	EMGN-.125-SF3	H0759	H1090	
0.125 (1/8)	1/8	0.187 (1.5x)	0.625 (5x)	2-1/2	EMGN-.125-SF5	H0760	H1091	H1311
0.125 (1/8)	1/8	0.187 (1.5x)	1.000 (8x)	2-1/2	EMGN-.125-SF8	H0761	H1092	H1312
0.125 (1/8)	1/8	0.187 (1.5x)	1.250 (10x)	2-1/2	EMGN-.125-SF10	H0762	H1093	
0.125 (1/8)	1/8	0.187 (1.5x)	1.500 (12x)	3	EMGN-.125-SF12	H0763	H1094	H1313
0.125 (1/8)	1/8	0.187 (1.5x)	1.875 (15x)	3	EMGN-.125-SF15	H0764	H1095	
0.125 (1/8)	1/8	0.187 (1.5x)	2.250 (18x)	4	EMGN-.125-SF18	H0765	H1096	
0.125 (1/8)	1/8	0.187 (1.5x)	2.500 (20x)	4	EMGN-.125-SF20	H0766	H1097	
0.125 (1/8)	1/8	0.187 (1.5x)	3.125 (25x)	4	EMGN-.125-SF25	H0767	H1098	
0.125 (1/8)	1/8	0.625 (5x)		2-1/2	EMG-.125-LF5	H0085	H0309	H0487
0.125 (1/8)	1/8	1.000 (8x)		2-1/2	EMG-.125-LF8	H0086	H0310	H0488
0.125 (1/8)	1/8	1.000 (8x)	1.500 (12x)	2-1/2	EMGN-.125	H0127	H0351	H0519
0.125 (1/8)	1/8	1.250 (10x)		2-1/2	EMG-.125-LF10	H0087	H0311	
0.125 (1/8)	1/8	1.500 (12x)		3	EMG-.125-LF12	H0088	H0312	H0489
0.125 (1/8)	1/8	1.875 (15x)		3	EMG-.125-LF15	H0089	H0313	H0490
0.140 (9/64)	3/16	0.211 (1.5x)	0.750 (5x)	3	EMGN-.140-SF5	H0768	H1099	
0.140 (9/64)	3/16	0.211 (1.5x)	1.125 (8x)	3	EMGN-.140-SF8	H0769	H1100	
0.156 (5/32)	3/16	0.234 (1.5x)	0.470 (3x)	3	EMGN-.156-SF3	H0770	H1101	
0.156 (5/32)	3/16	0.234 (1.5x)	0.750 (5x)	3	EMGN-.156-SF5	H0771	H1102	
0.156 (5/32)	3/16	0.234 (1.5x)	1.250 (8x)	3	EMGN-.156-SF8	H0772	H1103	
0.156 (5/32)	3/16	0.234 (1.5x)	1.875 (12x)	4	EMGN-.156-SF12	H0773	H1104	
0.156 (5/32)	3/16	0.234 (1.5x)	2.375 (15x)	4	EMGN-.156-SF15	H0774	H1105	
0.187 (3/16)	3/16	0.281 (1.5x)	0.570 (3x)	3	EMGN-.187-SF3	H0775	H1106	
0.187 (3/16)	3/16	0.281 (1.5x)	1.000 (5x)	3	EMGN-.187-SF5	H0776	H1107	H1314
0.187 (3/16)	3/16	0.281 (1.5x)	1.500 (8x)	3	EMGN-.187-SF8	H0777	H1108	H1315
0.187 (3/16)	3/16	0.281 (1.5x)	1.875 (10x)	4	EMGN-.187-SF10	H0778	H1109	
0.187 (3/16)	3/16	0.281 (1.5x)	2.250 (12x)	4	EMGN-.187-SF12	H0779	H1110	H1316
0.187 (3/16)	3/16	0.281 (1.5x)	2.812 (15x)	4	EMGN-.187-SF15	H0780	H1111	
0.187 (3/16)	3/16	0.281 (1.5x)	3.750 (20x)	6	EMGN-.187-SF20	H0781	H1112	
0.187 (3/16)	3/16	1.125 (6x)	1.625 (8x)	3	EMGN-.187	H0128	H0352	H0520
0.250 (1/4)	1/4	0.375 (1.5x)	1.250 (5x)	4	EMGN-.250-SF5	H0782	H1113	H1317
0.250 (1/4)	1/4	0.375 (1.5x)	2.000 (8x)	4	EMGN-.250-SF8	H0783	H1114	H1318
0.250 (1/4)	1/4	0.375 (1.5x)	2.500 (10x)	4	EMGN-.250-SF10	H0784	H1115	
0.250 (1/4)	1/4	0.375 (1.5x)	3.000 (12x)	6	EMGN-.250-SF12	H0785	H1116	H1319
0.250 (1/4)	1/4	0.375 (1.5x)	3.750 (15x)	6	EMGN-.250-SF15	H0786	H1117	
0.250 (1/4)	1/4	1.500 (6x)	2.000 (8x)	4	EMGN-.250	H0129	H0353	H0521

SERIES: EMG-___B

3 FLUTE MELIN MICRO BALL END MILLS

(product code PIC2)



DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.010	1/8	0.015 (1.5x)	0.050 (5x)	2-1/2	EMGN-.010-SF5-B	H0787	H1118	H1320
0.010	1/8	0.015 (1.5x)	0.080 (8x)	2-1/2	EMGN-.010-SF8-B	H0788	H1119	H1321
0.010	1/8	0.015 (1.5x)	0.125 (12x)	2-1/2	EMGN-.010-SF12-B	H0789	H1120	H1322
0.010	1/8	0.015 (1.5x)	0.150 (15x)	2-1/2	EMGN-.010-SF15-B	H0790	H1121	H1323
0.010	1/8	0.050 (5x)		2-1/2	EMG-.010-LF5-B	H0130	H0354	H0522
0.010	1/8	0.050 (5x)	0.100 (10x)	2-1/2	EMGN-.010-B	H0198	H0422	H0567
0.015 (1/64)	1/8	0.022 (1.5x)	0.045 (3x)	2-1/2	EMGN-.015-SF3-B	H0791	H1122	
0.015 (1/64)	1/8	0.022 (1.5x)	0.078 (5x)	2-1/2	EMGN-.015-SF5-B	H0792	H1123	H1324
0.015 (1/64)	1/8	0.022 (1.5x)	0.125 (8x)	2-1/2	EMGN-.015-SF8-B	H0793	H1124	H1325
0.015 (1/64)	1/8	0.022 (1.5x)	0.156 (10x)	2-1/2	EMGN-.015-SF10-B	H0794	H1125	H1326
0.015 (1/64)	1/8	0.022 (1.5x)	0.187 (12x)	2-1/2	EMGN-.015-SF12-B	H0795	H1126	H1327
0.015 (1/64)	1/8	0.022 (1.5x)	0.225 (15x)	2-1/2	EMGN-.015-SF15-B	H0796	H1127	H1328
0.015 (1/64)	1/8	0.022 (1.5x)	0.300 (20x)	2-1/2	EMGN-.015-SF20-B	H0797	H1128	H1329
0.015 (1/64)	1/8	0.022 (1.5x)	0.375 (25x)	2-1/2	EMGN-.015-SF25-B	H0798	H2025	
0.015 (1/64)	1/8	0.078 (5x)		2-1/2	EMG-.015-LF5-B	H0132	H0356	H0523
0.015 (1/64)	1/8	0.078 (5x)	0.150 (10x)	2-1/2	EMGN-.015-B	H0199	H0423	H0568
0.015 (1/64)	1/8	0.125 (8x)		2-1/2	EMG-.015-LF8-B	H0133	H0357	H0524
0.020	1/8	0.030 (1.5x)	0.060 (3x)	2-1/2	EMGN-.020-SF3-B	H0799	H1129	
0.020	1/8	0.030 (1.5x)	0.100 (5x)	2-1/2	EMGN-.020-SF5-B	H0800	H1130	H1330
0.020	1/8	0.030 (1.5x)	0.160 (8x)	2-1/2	EMGN-.020-SF8-B	H0801	H1131	H1331
0.020	1/8	0.030 (1.5x)	0.200 (10x)	2-1/2	EMGN-.020-SF10-B	H0802	H1132	
0.020	1/8	0.030 (1.5x)	0.250 (12x)	2-1/2	EMGN-.020-SF12-B	H0803	H1133	H1332
0.020	1/8	0.030 (1.5x)	0.300 (15x)	2-1/2	EMGN-.020-SF15-B	H0804	H1134	H1333
0.020	1/8	0.030 (1.5x)	0.400 (20x)	2-1/2	EMGN-.020-SF20-B	H0805	H1135	
0.020	1/8	0.030 (1.5x)	0.500 (25x)	2-1/2	EMGN-.020-SF25-B	H0806	H2026	
0.020	1/8	0.100 (5x)		2-1/2	EMG-.020-LF5-B	H0135	H0359	H0525
0.020	1/8	0.100 (5x)	0.200 (10x)	2-1/2	EMGN-.020-B	H0200	H0424	H0569
0.020	1/8	0.160 (8x)		2-1/2	EMG-.020-LF8-B	H0136	H0360	
0.025	1/8	0.037 (1.5x)	0.075 (3x)	2-1/2	EMGN-.025-SF3-B	H0807	H1136	
0.025	1/8	0.037 (1.5x)	0.125 (5x)	2-1/2	EMGN-.025-SF5-B	H0808	H1137	H1334
0.025	1/8	0.037 (1.5x)	0.203 (8x)	2-1/2	EMGN-.025-SF8-B	H0809	H1138	H1335

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Series: EMG-_-B

DIA D ₁	SHK D ₂	LOC L ₂ +.010/- .000	LBS L ₃ +.010/- .000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.025	1/8	0.037 (1.5x)	0.312 (12x)	2-1/2	EMGN-.025-SF12-B	H0810	H1139	H1336
0.025	1/8	0.037 (1.5x)	0.375 (15x)	2-1/2	EMGN-.025-SF15-B	H0811	H1140	H1337
0.025	1/8	0.125 (5x)		2-1/2	EMG-.025-LF5-B	H0138	H0362	H0526
0.025	1/8	0.125 (5x)	0.250 (10x)	2-1/2	EMGN-.025-B	H0201	H0425	H0570
0.025	1/8	0.203 (8x)		2-1/2	EMG-.025-LF8-B	H0139	H0363	
0.030	1/8	0.045 (1.5x)	0.090 (3x)	2-1/2	EMGN-.030-SF3-B	H0812	H1141	
0.030	1/8	0.045 (1.5x)	0.156 (5x)	2-1/2	EMGN-.030-SF5-B	H0813	H1142	H1338
0.030	1/8	0.045 (1.5x)	0.250 (8x)	2-1/2	EMGN-.030-SF8-B	H0814	H1143	H1339
0.030	1/8	0.045 (1.5x)	0.375 (12x)	2-1/2	EMGN-.030-SF12-B	H0815	H1144	H1340
0.030	1/8	0.045 (1.5x)	0.450 (15x)	2-1/2	EMGN-.030-SF15-B	H0816	H1145	
0.030	1/8	0.150 (5x)		2-1/2	EMG-.030-LF5-B	H0140	H0364	H0527
0.030	1/8	0.150 (5x)	0.300 (10x)	2-1/2	EMGN-.030-B	H0202	H0426	H0571
0.030	1/8	0.250 (8x)		2-1/2	EMG-.030-LF8-B	H0141	H0365	
0.031 (1/32)	1/8	0.046 (1.5x)	0.093 (3x)	2-1/2	EMGN-.031-SF3-B	H0817	H1146	H1341
0.031 (1/32)	1/8	0.046 (1.5x)	0.156 (5x)	2-1/2	EMGN-.031-SF5-B	H0818	H1147	H1342
0.031 (1/32)	1/8	0.046 (1.5x)	0.250 (8x)	2-1/2	EMGN-.031-SF8-B	H0819	H1148	H1343
0.031 (1/32)	1/8	0.046 (1.5x)	0.312 (10x)	2-1/2	EMGN-.031-SF10-B	H0820	H1149	H1344
0.031 (1/32)	1/8	0.046 (1.5x)	0.375 (12x)	2-1/2	EMGN-.031-SF12-B	H0821	H1150	H1345
0.031 (1/32)	1/8	0.046 (1.5x)	0.470 (15x)	2-1/2	EMGN-.031-SF15-B	H0822	H1151	H1346
0.031 (1/32)	1/8	0.046 (1.5x)	0.565 (18x)	2-1/2	EMGN-.031-SF18-B	H0823	H1152	H1347
0.031 (1/32)	1/8	0.046 (1.5x)	0.625 (20x)	2-1/2	EMGN-.031-SF20-B	H0824	H1153	H1348
0.031 (1/32)	1/8	0.046 (1.5x)	0.775 (25x)	2-1/2	EMGN-.031-SF25-B	H0825	H1154	
0.031 (1/32)	1/8	0.156 (5x)		2-1/2	EMG-.031-LF5-B	H0142	H0366	H0528
0.031 (1/32)	1/8	0.156 (5x)	0.310 (10x)	2-1/2	EMGN-.031-B	H0203	H0427	H0572
0.031 (1/32)	1/8	0.250 (8x)		2-1/2	EMG-.031-LF8-B	H0143	H0367	H0529
0.031 (1/32)	1/8	0.312 (10x)		2-1/2	EMG-.031-LF10-B	H0144	H0368	
0.031 (1/32)	1/8	0.375 (12x)		2-1/2	EMG-.031-LF12-B	H0145	H0369	H0530
0.031 (1/32)	1/8	0.470 (15x)		2-1/2	EMG-.031-LF15-B	H0146	H0370	
0.035	1/8	0.052 (1.5x)	0.187 (5x)	2-1/2	EMGN-.035-SF5-B	H0826	H1155	H1349
0.035	1/8	0.052 (1.5x)	0.281 (8x)	2-1/2	EMGN-.035-SF8-B	H0827	H1156	H1350
0.035	1/8	0.052 (1.5x)	0.425 (12x)	2-1/2	EMGN-.035-SF12-B	H0828	H1157	H1351
0.035	1/8	0.052 (1.5x)	0.525 (15x)	2-1/2	EMGN-.035-SF15-B	H0829	H1158	
0.035	1/8	0.175 (5x)		2-1/2	EMG-.035-LF5-B	H0147	H0371	H0531
0.035	1/8	0.175 (5x)	0.350 (10x)	2-1/2	EMGN-.035-B	H0204	H0428	H0573
0.035	1/8	0.281 (8x)		2-1/2	EMG-.035-LF8-B	H0148	H0372	
0.040	1/8	0.060 (1.5x)	0.120 (3x)	2-1/2	EMGN-.040-SF3-B	H0830	H1159	
0.040	1/8	0.060 (1.5x)	0.203 (5x)	2-1/2	EMGN-.040-SF5-B	H0831	H1160	H1352
0.040	1/8	0.060 (1.5x)	0.325 (8x)	2-1/2	EMGN-.040-SF8-B	H0832	H1161	H1353
0.040	1/8	0.060 (1.5x)	0.400 (10x)	2-1/2	EMGN-.040-SF10-B	H0833	H1162	

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SERIES: EMG-____-B

3 FLUTE MELIN MICRO BALL END MILLS

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.040	1/8	0.060 (1.5x)	0.480 (12x)	2-1/2	EMGN-.040-SF12-B	H0834	H1163	H1354
0.040	1/8	0.060 (1.5x)	0.600 (15x)	2-1/2	EMGN-.040-SF15-B	H0835	H1164	H1355
0.040	1/8	0.060 (1.5x)	0.800 (20x)	2-1/2	EMGN-.040-SF20-B	H0836	H1165	
0.040	1/8	0.060 (1.5x)	1.000 (25x)	2-1/2	EMGN-.040-SF25-B	H0837	H2027	
0.040	1/8	0.200 (5x)		2-1/2	EMG-.040-LF5-B	H0149	H0373	H0532
0.040	1/8	0.200 (5x)	0.400 (10x)	2-1/2	EMGN-.040-B	H0205	H0429	H0574
0.040	1/8	0.325 (8x)		2-1/2	EMG-.040-LF8-B	H0150	H0374	
0.040	1/8	0.480 (5x)		2-1/2	EMG-.040-LF12-B	H0151	H0375	
0.045	1/8	0.067 (1.5x)	0.225 (5x)	2-1/2	EMGN-.045-SF5-B	H0838	H1166	H1356
0.045	1/8	0.067 (1.5x)	0.375 (8x)	2-1/2	EMGN-.045-SF8-B	H0839	H1167	H1357
0.045	1/8	0.067 (1.5x)	0.550 (12x)	2-1/2	EMGN-.045-SF12-B	H0840	H1168	H1358
0.045	1/8	0.067 (1.5x)	0.680 (15x)	2-1/2	EMGN-.045-SF15-B	H0841	H1169	
0.045	1/8	0.225 (5x)		2-1/2	EMG-.045-LF5-B	H0152	H0376	H0533
0.045	1/8	0.225 (5x)	0.450 (10x)	2-1/2	EMGN-.045-B	H0206	H0430	H0575
0.047 (3/64)	1/8	0.070 (1.5x)	0.141 (3x)	2-1/2	EMGN-.047-SF3-B	H0842	H1170	
0.047 (3/64)	1/8	0.070 (1.5x)	0.250 (5x)	2-1/2	EMGN-.047-SF5-B	H0843	H1171	H1359
0.047 (3/64)	1/8	0.070 (1.5x)	0.375 (8x)	2-1/2	EMGN-.047-SF8-B	H0844	H1172	H1360
0.047 (3/64)	1/8	0.070 (1.5x)	0.480 (10x)	2-1/2	EMGN-.047-SF10-B	H0845	H1173	
0.047 (3/64)	1/8	0.070 (1.5x)	0.570 (12x)	2-1/2	EMGN-.047-SF12-B	H0846	H1174	H1361
0.047 (3/64)	1/8	0.070 (1.5x)	0.710 (15x)	2-1/2	EMGN-.047-SF15-B	H0847	H1175	H1362
0.047 (3/64)	1/8	0.070 (1.5x)	0.950 (20x)	2-1/2	EMGN-.047-SF20-B	H0848	H1176	H1363
0.047 (3/64)	1/8	0.070 (1.5x)	1.187 (25x)	2-1/2	EMGN-.047-SF25-B	H0849	H1177	
0.047 (3/64)	1/8	0.250 (5x)		2-1/2	EMG-.047-LF5-B	H0153	H0377	H0534
0.047 (3/64)	1/8	0.250 (5x)	0.500 (10x)	2-1/2	EMGN-.047-B	H0207	H0431	H0576
0.047 (3/64)	1/8	0.375 (8x)		2-1/2	EMG-.047-LF8-B	H0154	H0378	H0535
0.047 (3/64)	1/8	0.570 (12x)		2-1/2	EMG-.047-LF12-B	H0155	H0379	H0536
0.050	1/8	0.075 (1.5x)	0.150 (3x)	2-1/2	EMGN-.050-SF3-B	H0850	H1178	
0.050	1/8	0.075 (1.5x)	0.250 (5x)	2-1/2	EMGN-.050-SF5-B	H0851	H1179	H1364
0.050	1/8	0.075 (1.5x)	0.400 (8x)	2-1/2	EMGN-.050-SF8-B	H0852	H1180	H1365
0.050	1/8	0.075 (1.5x)	0.600 (12x)	2-1/2	EMGN-.050-SF12-B	H0853	H1181	H1366
0.050	1/8	0.300 (6x)		2-1/2	EMG-.050-LF6-B	H0156	H0380	H0537
0.050	1/8	0.300 (6x)	0.600 (12x)	2-1/2	EMGN-.050-B	H0208	H0432	H0577
0.050	1/8	0.400 (8x)		2-1/2	EMG-.050-LF8-B	H0157	H0381	
0.055	1/8	0.082 (1.5x)	0.165 (3x)	2-1/2	EMGN-.055-SF3-B	H0854	H1182	
0.055	1/8	0.082 (1.5x)	0.275 (5x)	2-1/2	EMGN-.055-SF5-B	H0855	H1183	H1367
0.055	1/8	0.082 (1.5x)	0.450 (8x)	2-1/2	EMGN-.055-SF8-B	H0856	H1184	H1368
0.055	1/8	0.082 (1.5x)	0.660 (12x)	2-1/2	EMGN-.055-SF12-B	H0857	H1185	H1369
0.055	1/8	0.275 (5x)		2-1/2	EMG-.055-LF5-B	H0158	H0382	
0.055	1/8	0.385 (7x)		2-1/2	EMG-.055-LF7-B	H0159	H0383	H0538
0.055	1/8	0.385 (7x)	0.770 (14x)	2-1/2	EMGN-.055-B	H0209	H0433	H0578

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Series: EMG-__-B

DIA D ₁	SHK D ₂	LOC L ₂ +.010/- .000	LBS L ₃ +.010/- .000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.060	1/8	0.090 (1.5x)	0.180 (3x)	2-1/2	EMGN-.060-SF3-B	H0858	H1186	
0.060	1/8	0.090 (1.5x)	0.312 (5x)	2-1/2	EMGN-.060-SF5-B	H0859	H1187	H1370
0.060	1/8	0.090 (1.5x)	0.500 (8x)	2-1/2	EMGN-.060-SF8-B	H0860	H1188	H1371
0.060	1/8	0.090 (1.5x)	0.625 (10x)	2-1/2	EMGN-.060-SF10-B	H0861	H1189	
0.060	1/8	0.090 (1.5x)	0.720 (12x)	2-1/2	EMGN-.060-SF12-B	H0862	H1190	H1372
0.060	1/8	0.090 (1.5x)	0.900 (15x)	2-1/2	EMGN-.060-SF15-B	H0863	H1191	
0.060	1/8	0.090 (1.5x)	1.200 (20x)	2-1/2	EMGN-.060-SF20-B	H0864	H1192	
0.060	1/8	0.312 (5x)		2-1/2	EMG-.060-LF5-B	H0160	H0384	
0.060	1/8	0.500 (8x)		2-1/2	EMG-.060-LF8-B	H0161	H0385	H0539
0.060	1/8	0.500 (8x)	1.000 (16x)	2-1/2	EMGN-.060-B	H0210	H0434	H0579
0.062 (1/16)	1/8	0.093 (1.5x)	0.186 (3x)	2-1/2	EMGN-.062-SF3-B	H0865	H1193	H1373
0.062 (1/16)	1/8	0.093 (1.5x)	0.312 (5x)	2-1/2	EMGN-.062-SF5-B	H0866	H1194	H1374
0.062 (1/16)	1/8	0.093 (1.5x)	0.500 (8x)	2-1/2	EMGN-.062-SF8-B	H0867	H1195	H1375
0.062 (1/16)	1/8	0.093 (1.5x)	0.625 (10x)	2-1/2	EMGN-.062-SF10-B	H0868	H1196	H1376
0.062 (1/16)	1/8	0.093 (1.5x)	0.750 (12x)	2-1/2	EMGN-.062-SF12-B	H0869	H1197	H1377
0.062 (1/16)	1/8	0.093 (1.5x)	0.950 (15x)	2-1/2	EMGN-.062-SF15-B	H0870	H1198	H1378
0.062 (1/16)	1/8	0.093 (1.5x)	1.125 (18x)	2-1/2	EMGN-.062-SF18-B	H0871	H1199	
0.062 (1/16)	1/8	0.093 (1.5x)	1.250 (20x)	2-1/2	EMGN-.062-SF20-B	H0872	H1200	H1379
0.062 (1/16)	1/8	0.093 (1.5x)	1.550 (25x)	3	EMGN-.062-SF25-B	H0873	H1201	
0.062 (1/16)	1/8	0.312 (5x)		2-1/2	EMG-.062-LF5-B	H0162	H0386	H0540
0.062 (1/16)	1/8	0.500 (8x)		2-1/2	EMG-.062-LF8-B	H0163	H0387	H0541
0.062 (1/16)	1/8	0.500 (8x)	1.000 (16x)	2-1/2	EMGN-.062-B	H0211	H0435	H0580
0.062 (1/16)	1/8	0.625 (10x)		2-1/2	EMG-.062-LF10-B	H0164	H0388	
0.062 (1/16)	1/8	0.750 (12x)		2-1/2	EMG-.062-LF12-B	H0165	H0389	H0542
0.062 (1/16)	1/8	0.950 (15x)		2-1/2	EMG-.062-LF15-B	H0166	H0390	H0543
0.065	1/8	0.097 (1.5x)	0.325 (5x)	2-1/2	EMGN-.065-SF5-B	H0874	H2028	
0.065	1/8	0.097 (1.5x)	0.530 (8x)	2-1/2	EMGN-.065-SF8-B	H0875	H1202	H1380
0.065	1/8	0.500 (8x)		2-1/2	EMG-.065-LF8-B	H0167	H0391	H0544
0.065	1/8	0.500 (8x)	1.000 (15x)	2-1/2	EMGN-.065-B	H0212	H0436	H0581
0.070	1/8	0.105 (1.5x)	0.375 (5x)	2-1/2	EMGN-.070-SF5-B	H0876	H2029	
0.070	1/8	0.105 (1.5x)	0.570 (8x)	2-1/2	EMGN-.070-SF8-B	H0877	H1203	H1381
0.070	1/8	0.500 (7x)		2-1/2	EMG-.070-LF7-B	H0168	H0392	H0545
0.070	1/8	0.500 (7x)	1.000 (14x)	2-1/2	EMGN-.070-B	H0213	H0437	H0582
0.075	1/8	0.112 (1.5x)	0.375 (5x)	2-1/2	EMGN-.075-SF5-B	H0878	H2030	
0.075	1/8	0.112 (1.5x)	0.625 (8x)	2-1/2	EMGN-.075-SF8-B	H0879	H1204	H1382
0.075	1/8	0.500 (7x)		2-1/2	EMG-.075-LF7-B	H0169	H0393	H0546
0.075	1/8	0.500 (7x)	1.000 (13x)	2-1/2	EMGN-.075-B	H0214	H0438	H0583
0.078 (5/64)	1/8	0.117 (1.5x)	0.234 (3x)	2-1/2	EMGN-.078-SF3-B	H0880	H1205	
0.078 (5/64)	1/8	0.117 (1.5x)	0.406 (5x)	2-1/2	EMGN-.078-SF5-B	H0881	H1206	H1383
0.078 (5/64)	1/8	0.117 (1.5x)	0.625 (8x)	2-1/2	EMGN-.078-SF8-B	H0882	H1207	H1384
0.078 (5/64)	1/8	0.117 (1.5x)	0.800 (10x)	2-1/2	EMGN-.078-SF10-B	H0883	H1208	

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SERIES: EMG-____-B

3 FLUTE MELIN MICRO BALL END MILLS

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.078 (5/64)	1/8	0.117 (1.5x)	0.940 (12x)	2-1/2	EMGN-.078-SF12-B	H0884	H1209	H1385
0.078 (5/64)	1/8	0.117 (1.5x)	1.187 (15x)	2-1/2	EMGN-.078-SF15-B	H0885	H1210	
0.078 (5/64)	1/8	0.117 (1.5x)	1.562 (20x)	3	EMGN-.078-SF20-B	H0886	H1211	
0.078 (5/64)	1/8	0.117 (1.5x)	1.950 (25x)	3	EMGN-.078-SF25-B	H0887	H2031	
0.078 (5/64)	1/8	0.406 (5x)		2-1/2	EMG-.078-LF5-B	H0170	H0394	H0547
0.078 (5/64)	1/8	0.500 (6x)	1.000 (12x)	2-1/2	EMGN-.078-B	H0215	H0439	H0584
0.078 (5/64)	1/8	0.625 (8x)		2-1/2	EMG-.078-LF8-B	H0171	H0395	H0548
0.078 (5/64)	1/8	0.940 (12x)		2-1/2	EMG-.078-LF12-B	H0172	H0396	H0549
0.078 (5/64)	1/8	1.187 (15x)		2-1/2	EMG-.078-LF15-B	H0173	H0397	H0550
0.080	1/8	0.120 (1.5x)	0.406 (5x)	2-1/2	EMGN-.080-SF5-B	H0888	H2032	
0.080	1/8	0.120 (1.5x)	0.650 (8x)	2-1/2	EMGN-.080-SF8-B	H0889	H1212	H1386
0.080	1/8	0.750 (9x)		2-1/2	EMG-.080-LF9-B	H0174	H0398	H0551
0.080	1/8	0.750 (9x)	1.250 (15x)	2-1/2	EMGN-.080-B	H0216	H0440	H0585
0.085	1/8	0.127 (1.5x)	0.425 (5x)	2-1/2	EMGN-.085-SF5-B	H0890	H2039	
0.085	1/8	0.127 (1.5x)	0.700 (8x)	2-1/2	EMGN-.085-SF8-B	H0891	H1213	H1387
0.085	1/8	0.750 (9x)		2-1/2	EMG-.085-LF9-B	H0175	H0399	H0552
0.085	1/8	0.750 (9x)	1.250 (14x)	2-1/2	EMGN-.085-B	H0217	H0441	H0586
0.090	1/8	0.135 (1.5x)	0.450 (5x)	2-1/2	EMGN-.090-SF5-B	H0892	H2033	
0.090	1/8	0.135 (1.5x)	0.750 (8x)	2-1/2	EMGN-.090-SF8-B	H0893	H1214	H1388
0.090	1/8	0.750 (8x)		2-1/2	EMG-.090-LF8-B	H0176	H0400	H0553
0.090	1/8	0.750 (8x)	1.250 (13x)	2-1/2	EMGN-.090-B	H0218	H0442	H0587
0.093 (3/32)	1/8	0.139 (1.5x)	0.279 (3x)	2-1/2	EMGN-.093-SF3-B	H0894	H1215	
0.093 (3/32)	1/8	0.139 (1.5x)	0.500 (5x)	2-1/2	EMGN-.093-SF5-B	H0895	H1216	H1389
0.093 (3/32)	1/8	0.139 (1.5x)	0.750 (8x)	2-1/2	EMGN-.093-SF8-B	H0896	H1217	H1390
0.093 (3/32)	1/8	0.139 (1.5x)	0.950 (10x)	2-1/2	EMGN-.093-SF10-B	H0897	H1218	
0.093 (3/32)	1/8	0.139 (1.5x)	1.125 (12x)	2-1/2	EMGN-.093-SF12-B	H0898	H1219	H1391
0.093 (3/32)	1/8	0.139 (1.5x)	1.400 (15x)	3	EMGN-.093-SF15-B	H0899	H1220	H1392
0.093 (3/32)	1/8	0.139 (1.5x)	1.675 (18x)	3	EMGN-.093-SF18-B	H0900	H1221	
0.093 (3/32)	1/8	0.139 (1.5x)	1.875 (20x)	4	EMGN-.093-SF20-B	H0901	H1222	
0.093 (3/32)	1/8	0.139 (1.5x)	2.312 (25x)	4	EMGN-.093-SF25-B	H0902	H1223	
0.093 (3/32)	1/8	0.500 (5x)		2-1/2	EMG-.093-LF5-B	H0177	H0401	H0554
0.093 (3/32)	1/8	0.750 (8x)		2-1/2	EMG-.093-LF8-B	H0178	H0402	H0555
0.093 (3/32)	1/8	0.750 (8x)	1.250 (13x)	2-1/2	EMGN-.093-B	H0219	H0443	H0588
0.093 (3/32)	1/8	0.950 (10x)		2-1/2	EMG-.093-LF10-B	H0179	H0403	
0.093 (3/32)	1/8	1.125 (12x)		2-1/2	EMG-.093-LF12-B	H0180	H0404	H0556
0.093 (3/32)	1/8	1.400 (15x)		3	EMG-.093-LF15-B	H0181	H0405	H0557

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Series: EMG-__-B

DIA D ₁	SHK D ₂	LOC L ₂ +.010/-0.000	LBS L ₃ +.010/-0.000	OAL L ₁	Bright Part Name	Bright EDP	ALTIN EDP	DLC EDP
0.095	1/8	0.142 (1.5x)	0.500 (5x)	2-1/2	EMGN-.095-SF5-B	H0903	H2034	
0.095	1/8	0.142 (1.5x)	0.750 (8x)	2-1/2	EMGN-.095-SF8-B	H0904	H1224	H1393
0.095	1/8	0.750 (8x)		2-1/2	EMG-.095-LF8-B	H0182	H0406	H0558
0.095	1/8	0.750 (8x)	1.250 (13x)	2-1/2	EMGN-.095-B	H0220	H0444	H0589
0.100	1/8	0.150 (1.5x)	0.300 (3x)	2-1/2	EMGN-.100-SF3-B	H0905	H1225	
0.100	1/8	0.150 (1.5x)	0.500 (5x)	2-1/2	EMGN-.100-SF5-B	H0906	H1226	
0.100	1/8	0.150 (1.5x)	0.800 (8x)	2-1/2	EMGN-.100-SF8-B	H0907	H1227	H1394
0.100	1/8	0.150 (1.5x)	1.200 (12x)	2-1/2	EMGN-.100-SF12-B	H0908	H1228	
0.100	1/8	0.500 (5x)		2-1/2	EMG-.100-LF5-B	H0183	H0407	
0.100	1/8	0.750 (7.5x)		2-1/2	EMG-.100-LF7.5-B	H0184	H0408	H0559
0.100	1/8	0.750 (7.5x)	1.250 (12x)	2-1/2	EMGN-.100-B	H0221	H0445	H0590
0.125 (1/8)	1/8	0.187 (1.5x)	0.375 (3x)	2-1/2	EMGN-.125-SF3-B	H0909	H1229	
0.125 (1/8)	1/8	0.187 (1.5x)	0.625 (5x)	2-1/2	EMGN-.125-SF5-B	H0910	H1230	H1395
0.125 (1/8)	1/8	0.187 (1.5x)	1.000 (8x)	2-1/2	EMGN-.125-SF8-B	H0911	H1231	H1396
0.125 (1/8)	1/8	0.187 (1.5x)	1.250 (10x)	2-1/2	EMGN-.125-SF10-B	H0912	H1232	
0.125 (1/8)	1/8	0.187 (1.5x)	1.500 (12x)	3	EMGN-.125-SF12-B	H0913	H1233	H1397
0.125 (1/8)	1/8	0.187 (1.5x)	1.875 (15x)	3	EMGN-.125-SF15-B	H0914	H1234	H1398
0.125 (1/8)	1/8	0.187 (1.5x)	2.250 (18x)	4	EMGN-.125-SF18-B	H0915	H1235	
0.125 (1/8)	1/8	0.187 (1.5x)	2.500 (20x)	4	EMGN-.125-SF20-B	H0916	H1236	H1399
0.125 (1/8)	1/8	0.187 (1.5x)	3.125 (25x)	4	EMGN-.125-SF25-B	H0917	H2035	
0.125 (1/8)	1/8	0.625 (5x)		2-1/2	EMG-.125-LF5-B	H0185	H0409	H0560
0.125 (1/8)	1/8	1.000 (8x)		2-1/2	EMG-.125-LF8-B	H0186	H0410	H0561
0.125 (1/8)	1/8	1.000 (8x)	1.500 (12x)	2-1/2	EMGN-.125-B	H0222	H0446	H0591
0.125 (1/8)	1/8	1.250 (10x)		2-1/2	EMG-.125-LF10-B	H0187	H0411	
0.125 (1/8)	1/8	1.500 (12x)		3	EMG-.125-LF12-B	H0188	H0412	H0562
0.125 (1/8)	1/8	1.875 (15x)		3	EMG-.125-LF15-B	H0189	H0413	H0563
0.156 (5/32)	3/16	0.234 (1.5x)	0.750 (5x)	3	EMGN-.156-SF5-B	H0918	H1237	
0.156 (5/32)	3/16	0.234 (1.5x)	1.250 (8x)	3	EMGN-.156-SF8-B	H0919	H1238	
0.187 (3/16)	3/16	0.281 (1.5x)	1.000 (5x)	3	EMGN-.187-SF5-B	H0920	H1239	H1400
0.187 (3/16)	3/16	0.281 (1.5x)	1.500 (8x)	3	EMGN-.187-SF8-B	H0921	H1240	H1401
0.187 (3/16)	3/16	0.281 (1.5x)	1.875 (10x)	4	EMGN-.187-SF10-B	H0922	H1241	
0.187 (3/16)	3/16	0.281 (1.5x)	2.250 (12x)	4	EMGN-.187-SF12-B	H0923	H1242	H1402
0.187 (3/16)	3/16	0.281 (1.5x)	2.812 (15x)	4	EMGN-.187-SF15-B	H0924	H1243	
0.187 (3/16)	3/16	1.125 (6x)	1.625 (8x)	3	EMGN-.187-B	H0223	H0447	H0592
0.250 (1/4)	1/4	0.375 (1.5x)	1.250 (5x)	4	EMGN-.250-SF5-B	H0925	H1244	H1403
0.250 (1/4)	1/4	0.375 (1.5x)	2.000 (8x)	4	EMGN-.250-SF8-B	H0926	H1245	H1404
0.250 (1/4)	1/4	0.375 (1.5x)	2.500 (10x)	4	EMGN-.250-SF10-B	H0927	H1246	
0.250 (1/4)	1/4	0.375 (1.5x)	3.000 (12x)	6	EMGN-.250-SF12-B	H0928	H1247	H1405
0.250 (1/4)	1/4	0.375 (1.5x)	3.750 (15x)	6	EMGN-.250-SF15-B	H0929	H1248	
0.250 (1/4)	1/4	1.500 (6x)	2.000 (8x)	4	EMGN-.250-B	H0224	H0448	H0593

COMMITTED TO QUALITY

At Melin Tool Company, **It is UNDERSTOOD that we will not prosper without COMPLETE customer satisfaction.** Success at Melin is measured by how well we serve the customers who distribute and use our products.

Quality is an attitude at Melin. It is an every day, every tool, every order commitment to supply products which meet or exceed ALL of the detailed specification of our customers. Another major quality goal is to monitor and, where possible, improve upon the processes used to achieve this HIGH QUALITY.

COMMITTED TO OUR CUSTOMERS



S E R I E S: CCMG

4 FLUTE MELIN **SQUARE** AND **BALL** MICRO END MILLS

4 FLUTE MELIN **RADIUS** MICRO END MILLS

Newly Expanded 4 Flute offered in square, ball and radius end tools. This series ranges from stub, standard, and long flute. With Melin's in house coating capabilities, All tools listed are available bright or can be coated with any Melin coating.



(For larger diameters, please see full line catalog)



- Available from
 - Square - 0.005 - 0.125
 - Ball - 0.010-0.125
 - Radius - 0.020-0.125
- Length of cut 1.5xD, 3xD, & 5xD
- Center cutting
- Metric offering available
- Bright, AlTiN, & Amorphous (DLC)
 - Diamond
 - additional coatings available on request*
- Made from premium submicron grain carbide

ALL LENGTHS - SQUARE END BALL END RADIUS END

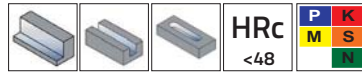
Premium 4 Flute Carbide Micro End Mills. Square, Ball & Radius End. Available in stub, standard and long flute length of cuts. Ideal for **profiling, and finishing operations** in all medium hard ferrous materials. Manufactured in Cleveland, OH.

**4
FLUTES**

SERIES: CCMG

4 FLUTE MELIN MICRO SQUARE END MILLS

(product code PIC2)



DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.005	1/8	0.008	1-1/2	stub	CCMGS-.005	17126	57126	
0.005	1/8	0.015	1-1/2	std	CCMG-.005	H1612	H1994	
0.006	1/8	0.009	1-1/2	stub	CCMGS-.006	17129	57129	
0.006	1/8	0.018	1-1/2	std	CCMG-.006	17130	57130	
0.007	1/8	0.011	1-1/2	stub	CCMGS-.007	17132	57132	
0.007	1/8	0.021	1-1/2	std	CCMG-.007	17133	57133	
0.008	1/8	0.012	1-1/2	stub	CCMGS-.008	17134	57134	
0.008	1/8	0.024	1-1/2	std	CCMG-.008	17135	57135	
0.009	1/8	0.014	1-1/2	stub	CCMGS-.009	17136	57136	
0.009	1/8	0.027	1-1/2	std	CCMG-.009	17137	57137	
0.010	1/8	0.015	1-1/2	stub	CCMGS-.010	17370	57370	77370
0.010	1/8	0.030	1-1/2	std	CCMG-.010	10655	50655	70655
0.011	1/8	0.017	1-1/2	stub	CCMGS-.011	17452	57452	77452
0.011	1/8	0.033	1-1/2	std	CCMG-.011	17453	57453	77453
0.012	1/8	0.018	1-1/2	stub	CCMGS-.012	17454	57454	77454
0.012	1/8	0.036	1-1/2	std	CCMG-.012	17455	57455	77455
0.013	1/8	0.020	1-1/2	stub	CCMGS-.013	17456	57456	77456
0.013	1/8	0.039	1-1/2	std	CCMG-.013	17457	57457	77457
0.014	1/8	0.021	1-1/2	stub	CCMGS-.014	17458	57458	77458
0.014	1/8	0.042	1-1/2	std	CCMG-.014	17459	57459	77459
0.015 (1/64)	1/8	0.023	1-1/2	stub	CCMGS-.015	17460	57460	77460
0.015 (1/64)	1/8	0.045	1-1/2	std	CCMG-.015	10657	50657	70657
0.015 (1/64)	1/8	0.075	2-1/2	long flute	CCMG-.0150-LF	12379	52379	72379
0.016	1/8	0.024	1-1/2	stub	CCMGS-.016	17461	57461	77461
0.016	1/8	0.048	1-1/2	std	CCMG-.016	17462	57462	77462
0.017	1/8	0.026	1-1/2	stub	CCMGS-.017	17463	57463	77463
0.017	1/8	0.051	1-1/2	std	CCMG-.017	17464	57464	77464
0.018	1/8	0.027	1-1/2	stub	CCMGS-.018	17465	57465	77465
0.018	1/8	0.054	1-1/2	std	CCMG-.018	17466	57466	77466

sizes continued on next page



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Series: CCMG

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.019	1/8	0.029	1-1/2	stub	CCMGS-.019	17467	57467	77467
0.019	1/8	0.057	1-1/2	std	CCMG-.019	17468	57468	77468
0.020	1/8	0.030	1-1/2	stub	CCMGS-.020	17469	57469	77469
0.020	1/8	0.060	1-1/2	std	CCMG-.020	10659	50659	70659
0.020	1/8	0.100	2-1/2	long flute	CCMG-.0200-LF	12380	52380	72380
0.021	1/8	0.032	1-1/2	stub	CCMGS-.021	17470	57470	77470
0.021	1/8	0.063	1-1/2	std	CCMG-.021	17471	57471	77471
0.022	1/8	0.033	1-1/2	stub	CCMGS-.022	17472	57472	77472
0.022	1/8	0.066	1-1/2	std	CCMG-.022	17473	57473	77473
0.023	1/8	0.035	1-1/2	stub	CCMGS-.023	17474	57474	77474
0.023	1/8	0.069	1-1/2	std	CCMG-.023	17475	57475	77475
0.024	1/8	0.036	1-1/2	stub	CCMGS-.024	17476	57476	77476
0.024	1/8	0.072	1-1/2	std	CCMG-.024	17477	57477	77477
0.025	1/8	0.038	1-1/2	stub	CCMGS-.025	17478	57478	77478
0.025	1/8	0.075	1-1/2	std	CCMG-.025	10661	50661	70661
0.025	1/8	0.125	2-1/2	long flute	CCMG-.0250-LF	12585	52585	72585
0.026	1/8	0.039	1-1/2	stub	CCMGS-.026	17479	57479	77479
0.026	1/8	0.078	1-1/2	std	CCMG-.026	17480	57480	77480
0.027	1/8	0.041	1-1/2	stub	CCMGS-.027	17481	57481	77481
0.027	1/8	0.081	1-1/2	std	CCMG-.027	17482	57482	77482
0.028	1/8	0.042	1-1/2	stub	CCMGS-.028	17483	57483	77483
0.028	1/8	0.084	1-1/2	std	CCMG-.028	17484	57484	77484
0.029	1/8	0.044	1-1/2	stub	CCMGS-.029	17485	57485	77485
0.029	1/8	0.087	1-1/2	std	CCMG-.029	17486	57486	77486
0.030	1/8	0.045	1-1/2	stub	CCMGS-.030	17487	57487	77487
0.030	1/8	0.090	1-1/2	std	CCMG-.030	10663	50663	70663
0.030	1/8	0.150	2-1/2	long flute	CCMG-.0300-LF	12381	52381	72381
0.031 (1/32)	1/8	0.047	1-1/2	stub	CCMGS-.031	17488	57488	77488
0.031 (1/32)	1/8	0.093	1-1/2	std	CCMG-.031	17489	57489	77489
0.032	1/8	0.048	1-1/2	stub	CCMGS-.032	17490	57490	77490
0.032	1/8	0.096	1-1/2	std	CCMG-.032	17491	57491	77491
0.033	1/8	0.050	1-1/2	stub	CCMGS-.033	17492	57492	77492
0.033	1/8	0.099	1-1/2	std	CCMG-.033	17493	57493	77493
0.034	1/8	0.051	1-1/2	stub	CCMGS-.034	17494	57494	77494
0.034	1/8	0.102	1-1/2	std	CCMG-.034	17495	57495	77495
0.035	1/8	0.053	1-1/2	stub	CCMGS-.035	17496	57496	77496
0.035	1/8	0.105	1-1/2	std	CCMG-.035	10665	50665	70665
0.035	1/8	0.175	2-1/2	long flute	CCMG-.0350-LF	12587	52587	72587
0.036	1/8	0.054	1-1/2	stub	CCMGS-.036	H1417	H1418	
0.036	1/8	0.108	1-1/2	std	CCMG-.036	H1729	H1730	
0.037	1/8	0.056	1-1/2	stub	CCMGS-.037	H1419	H1420	
0.037	1/8	0.111	1-1/2	std	CCMG-.037	H1616	H1617	
0.038	1/8	0.057	1-1/2	stub	CCMGS-.038	H1421	H1422	
0.038	1/8	0.114	1-1/2	std	CCMG-.038	H1620	H1621	

sizes continued on next page

S E R I E S: CCMG

4 FLUTE MELIN MICRO SQUARE END MILLS

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.039	1/8	0.059	1-1/2	stub	CCMGS-.039	H1423	H1424	
0.039	1/8	0.117	1-1/2	std	CCMG-.039	H1624	H1625	
0.040	1/8	0.060	1-1/2	stub	CCMGS-.040	17497	57497	77497
0.040	1/8	0.120	1-1/2	std	CCMG-.040	10667	50667	70667
0.040	1/8	0.200	2-1/2	long flute	CCMG-.0400-LF	12383	52383	72383
0.041	1/8	0.123	1-1/2	std	CCMG-.041	H1628	H1629	
0.042	1/8	0.126	1-1/2	std	CCMG-.042	H1632	H1633	
0.043	1/8	0.129	1-1/2	std	CCMG-.043	H1636	H1637	
0.044	1/8	0.132	1-1/2	std	CCMG-.044	H1640	H1642	
0.045	1/8	0.068	1-1/2	stub	CCMGS-.045	17498	57498	77498
0.045	1/8	0.135	1-1/2	std	CCMG-.045	10669	50669	70669
0.045	1/8	0.250	2-1/2	long flute	CCMG-.0450-LF	12384	52384	72384
0.046	1/8	0.138	1-1/2	std	CCMG-.046	H1644	H1645	
0.047 (3/64)	1/8	0.071	1-1/2	stub	CCMGS-.047	H1425	H1426	H1427
0.047 (3/64)	1/8	0.141	1-1/2	std	CCMG-.047	H1648	H1649	H1653
0.048	1/8	0.144	1-1/2	std	CCMG-.048	H1654	H1655	
0.049	1/8	0.147	1-1/2	std	CCMG-.049	H1658	H1659	
0.050	1/8	0.075	1-1/2	stub	CCMGS-.050	17499	57499	77499
0.050	1/8	0.150	1-1/2	std	CCMG-.050	10671	50671	70671
0.050	1/8	0.300	2-1/2	long flute	CCMG-.0500-LF	12386	52386	72386
0.051	1/8	0.153	1-1/2	std	CCMG-.051	H1662	H1663	
0.052	1/8	0.156	1-1/2	std	CCMG-.052	H1666	H1667	
0.053	1/8	0.159	1-1/2	std	CCMG-.053	H1670	H1671	
0.054	1/8	0.162	1-1/2	std	CCMG-.054	H1674	H1675	
0.055	1/8	0.083	1-1/2	stub	CCMGS-.055	17637	57637	77637
0.055	1/8	0.165	1-1/2	std	CCMG-.055	10673	50673	70673
0.056	1/8	0.168	1-1/2	std	CCMG-.056	H1678	H1679	
0.057	1/8	0.171	1-1/2	std	CCMG-.057	H1682	H1683	
0.058	1/8	0.174	1-1/2	std	CCMG-.058	H1686	H1687	
0.059	1/8	0.177	1-1/2	std	CCMG-.059	H1690	H1691	
0.060	1/8	0.090	1-1/2	stub	CCMGS-.060	17643	57643	77643
0.060	1/8	0.180	1-1/2	std	CCMG-.060	10675	50675	70675
0.060	1/8	0.500	2-1/2	long flute	CCMG-.0600-LF	12387	52387	72387
0.062 (1/16)	1/8	0.093	1-1/2	stub	CCMGS-.062	H1428	H1429	H1430
0.062 (1/16)	1/8	0.186	1-1/2	std	CCMG-.062	H1694	H1695	H1699
0.065	1/8	0.098	1-1/2	stub	CCMGS-.065	17645	57645	77645
0.065	1/8	0.195	1-1/2	std	CCMG-.065	10677	50677	70677
0.070	1/8	0.105	1-1/2	stub	CCMGS-.070	17647	57647	77647
0.070	1/8	0.210	1-1/2	std	CCMG-.070	10679	50679	70679

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Series: CCMG

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.075	1/8	0.113	1-1/2	stub	CCMGS-.075	17649	57649	77649
0.075	1/8	0.225	1-1/2	std	CCMG-.075	10681	50681	70681
0.075	1/8	0.500	2-1/2	long flute	CCMG-.0750-LF	12389	52389	72389
0.078 (5/64)	1/8	0.117	1-1/2	stub	CCMGS-.078	H1431	H1432	H1433
0.078 (5/64)	1/8	0.234	1-1/2	std	CCMG-.078	H1700	H1701	H1705
0.080	1/8	0.120	1-1/2	stub	CCMGS-.080	17651	57651	77651
0.080	1/8	0.240	1-1/2	std	CCMG-.080	10683	50683	70683
0.085	1/8	0.128	1-1/2	stub	CCMGS-.085	17653	57653	77653
0.085	1/8	0.255	1-1/2	std	CCMG-.085	10685	50685	70685
0.090	1/8	0.135	1-1/2	stub	CCMGS-.090	17656	57656	77656
0.090	1/8	0.270	1-1/2	std	CCMG-.090	10687	50687	70687
0.090	1/8	0.500	2-1/2	long flute	CCMG-.0900-LF	12390	52390	72390
0.093 (3/32)	1/8	0.140	1-1/2	stub	CCMGS-.093	H1436	H1437	H1438
0.093 (3/32)	1/8	0.279	1-1/2	std	CCMG-.093	H1706	H1707	H1711
0.095	1/8	0.143	1-1/2	stub	CCMGS-.095	17657	57657	77657
0.095	1/8	0.285	1-1/2	std	CCMG-.095	10689	50689	70689
0.100	1/8	0.150	1-1/2	stub	CCMGS-.100	17663	57663	77663
0.100	1/8	0.300	1-1/2	std	CCMG-.100	10691	50691	70691
0.105	1/8	0.158	1-1/2	stub	CCMGS-.105	H1747	H1748	
0.105	1/8	0.315	1-1/2	std	CCMG-.105	H1712	H1713	H1716
0.110	1/8	0.165	1-1/2	stub	CCMGS-.110	H1749	H1750	
0.110	1/8	0.330	1-1/2	std	CCMG-.110	H1717	H1718	H1721
0.115	1/8	0.173	1-1/2	stub	CCMGS-.115	H1751	H1752	
0.115	1/8	0.345	1-1/2	std	CCMG-.115	H1722	H1723	H1726
0.118	1/8	0.177	1-1/2	stub	CCMGS-.118	H1996	H1997	
0.118	1/8	0.345	1-1/2	std	CCMG-.118	H2017	H2018	
0.120	1/8	0.180	1-1/2	stub	CCMGS-.120	H1931	H1932	
0.120	1/8	0.360	1-1/2	std	CCMG-.120	H1929	H1930	H1998
0.125 (1/8)	1/8	0.187	1-1/2	stub	CCMGS-.125	H1999	H2000	H2001
0.125 (1/8)	1/8	0.375	1-1/2	std	CCMG-.125	H2002	H2003	H2004
0.125 (1/8)	1/8	0.750	2-1/2	long flute	CCMG-.1250-LF	12391	52391	72391



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S E R I E S: CCMG (metric)

4 FLUTE MELIN MICRO SQUARE END MILLS

(product code PIC2)



DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP
0.2mm	3mm	0.4mm	38mm	std	CCMG-M0.2	13663	53663
0.3mm	3mm	0.9mm	38mm	std	CCMG-M0.3	13664	53664
0.4mm	3mm	1.2mm	38mm	std	CCMG-M0.4	13665	53665
0.5mm	3mm	1.5mm	38mm	std	CCMG-M0.5	13666	53666
0.6mm	3mm	1.8mm	38mm	std	CCMG-M0.6	13667	53667
0.7mm	3mm	2.1mm	38mm	std	CCMG-M0.7	13668	53668
0.8mm	3mm	2.4mm	38mm	std	CCMG-M0.8	13669	53669
0.9mm	3mm	2.7mm	38mm	std	CCMG-M0.9	13670	53670
1.0mm	3mm	3.0mm	38mm	std	CCMG-M3M1	16933	56933
1.1mm	3mm	3.3mm	38mm	std	CCMG-M1.1	13672	53672
1.2mm	3mm	3.6mm	38mm	std	CCMG-M1.2	13673	53673
1.3mm	3mm	3.9mm	38mm	std	CCMG-M1.3	13674	53674
1.4mm	3mm	4.2mm	38mm	std	CCMG-M1.4	13675	53675
1.5mm	3mm	4.5mm	38mm	std	CCMG-M1.5	13676	53676

✚ LARGER Sizes In [Full Line Catalog](#)



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S E R I E S: CCMG-__-B



DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTiN EDP	DLC EDP
0.010	1/8	0.015	1-1/2	stub	CCMGS-.010-B	18860	58860	78860
0.010	1/8	0.030	1-1/2	std	CCMG-.010-B	13154	53154	73154
0.011	1/8	0.017	1-1/2	stub	CCMGS-.011-B	18861	58861	78861
0.011	1/8	0.033	1-1/2	std	CCMG-.011-B	18862	58862	78862
0.012	1/8	0.018	1-1/2	stub	CCMGS-.012-B	18863	58863	78863
0.012	1/8	0.036	1-1/2	std	CCMG-.012-B	18864	58864	78864
0.013	1/8	0.020	1-1/2	stub	CCMGS-.013-B	18865	58865	78865
0.013	1/8	0.039	1-1/2	std	CCMG-.013-B	18866	58866	78866
0.014	1/8	0.021	1-1/2	stub	CCMGS-.014-B	18867	58867	78867
0.014	1/8	0.042	1-1/2	std	CCMG-.014-B	18868	58868	78868
0.015 (1/64)	1/8	0.023	1-1/2	stub	CCMGS-.015-B	18869	58869	78869
0.015 (1/64)	1/8	0.045	1-1/2	std	CCMG-.015-B	13155	53155	73155
0.015 (1/64)	1/8	0.075	2-1/2	long flute	CCMG-.0150-LF-B	12392	52392	72392
0.016	1/8	0.024	1-1/2	stub	CCMGS-.016-B	18870	58870	78870
0.016	1/8	0.048	1-1/2	std	CCMG-.016-B	18871	58871	78871
0.017	1/8	0.026	1-1/2	stub	CCMGS-.017-B	18872	58872	78872
0.017	1/8	0.051	1-1/2	std	CCMG-.017-B	18873	58873	78873
0.018	1/8	0.027	1-1/2	stub	CCMGS-.018-B	18874	58874	78874
0.018	1/8	0.054	1-1/2	std	CCMG-.018-B	18875	58875	78875
0.019	1/8	0.029	1-1/2	stub	CCMGS-.019-B	18876	58876	78876
0.019	1/8	0.057	1-1/2	std	CCMG-.019-B	18877	58877	78877
0.020	1/8	0.030	1-1/2	stub	CCMGS-.020-B	18878	58878	78878
0.020	1/8	0.060	1-1/2	std	CCMG-.020-B	13156	53156	73156
0.020	1/8	0.100	2-1/2	long flute	CCMG-.0200-LF-B	12393	52393	72393
0.021	1/8	0.032	1-1/2	stub	CCMGS-.021-B	18879	58879	78879
0.021	1/8	0.063	1-1/2	std	CCMG-.021-B	18880	58880	78880
0.022	1/8	0.033	1-1/2	stub	CCMGS-.022-B	18881	58881	78881
0.022	1/8	0.066	1-1/2	std	CCMG-.022-B	18882	58882	78882
0.023	1/8	0.035	1-1/2	stub	CCMGS-.023-B	18883	58883	78883
0.023	1/8	0.069	1-1/2	std	CCMG-.023-B	18884	58884	78884
0.024	1/8	0.036	1-1/2	stub	CCMGS-.024-B	18885	58885	78885
0.024	1/8	0.072	1-1/2	std	CCMG-.024-B	18916	58916	78916

sizes continued on next page

S E R I E S: CCMG-__-B

4 FLUTE MELIN MICRO BALL END MILLS

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.025	1/8	0.038	1-1/2	stub	CCMGS-.025-B	18917	58917	78917
0.025	1/8	0.075	1-1/2	std	CCMG-.025-B	13157	53157	73157
0.025	1/8	0.125	2-1/2	long flute	CCMG-.0250-LF-B	12591	52591	72591
0.026	1/8	0.039	1-1/2	stub	CCMGS-.026-B	18918	58918	78918
0.026	1/8	0.078	1-1/2	std	CCMG-.026-B	18919	58919	78919
0.027	1/8	0.041	1-1/2	stub	CCMGS-.027-B	18920	58920	78920
0.027	1/8	0.081	1-1/2	std	CCMG-.027-B	18921	58921	78921
0.028	1/8	0.042	1-1/2	stub	CCMGS-.028-B	18922	58922	78922
0.028	1/8	0.084	1-1/2	std	CCMG-.028-B	18923	58923	78923
0.029	1/8	0.044	1-1/2	stub	CCMGS-.029-B	18924	58924	78924
0.029	1/8	0.087	1-1/2	std	CCMG-.029-B	18925	58925	78925
0.030	1/8	0.045	1-1/2	stub	CCMGS-.030-B	18926	58926	78926
0.030	1/8	0.090	1-1/2	std	CCMG-.030-B	13158	53158	73158
0.030	1/8	0.150	2-1/2	long flute	CCMG-.0300-LF-B	12394	52394	72394
0.031 (1/32)	1/8	0.047	1-1/2	stub	CCMGS-.031-B	18927	58927	78927
0.031 (1/32)	1/8	0.093	1-1/2	std	CCMG-.031-B	18928	58928	78928
0.032	1/8	0.048	1-1/2	stub	CCMGS-.032-B	18929	58929	78929
0.032	1/8	0.096	1-1/2	std	CCMG-.032-B	18930	58930	78930
0.033	1/8	0.050	1-1/2	stub	CCMGS-.033-B	18931	58931	78931
0.033	1/8	0.099	1-1/2	std	CCMG-.033-B	18932	58932	78932
0.034	1/8	0.051	1-1/2	stub	CCMGS-.034-B	18933	58933	78933
0.034	1/8	0.102	1-1/2	std	CCMG-.034-B	18934	58934	78934
0.035	1/8	0.053	1-1/2	stub	CCMGS-.035-B	18935	58935	78935
0.035	1/8	0.105	1-1/2	std	CCMG-.035-B	13159	53159	73159
0.035	1/8	0.175	2-1/2	long flute	CCMG-.0350-LF-B	12593	52593	72593
0.036	1/8	0.054	1-1/2	stub	CCMGS-.036-B	H1731	H1732	
0.036	1/8	0.108	1-1/2	std	CCMG-.036-B	H1614	H1615	
0.037	1/8	0.056	1-1/2	stub	CCMGS-.037-B	H1733	H1734	
0.037	1/8	0.111	1-1/2	std	CCMG-.037-B	H1618	H1619	
0.038	1/8	0.057	1-1/2	stub	CCMGS-.038-B	H1735	H1736	
0.038	1/8	0.114	1-1/2	std	CCMG-.038-B	H1622	H1623	
0.039	1/8	0.059	1-1/2	stub	CCMGS-.039-B	H1737	H1738	
0.039	1/8	0.117	1-1/2	std	CCMG-.039-B	H1626	H1627	
0.040	1/8	0.060	1-1/2	stub	CCMGS-.040-B	18936	58936	78936
0.040	1/8	0.120	1-1/2	std	CCMG-.040-B	13160	53160	73160
0.040	1/8	0.200	2-1/2	long flute	CCMG-.0400-LF-B	12396	52396	72396
0.041	1/8	0.123	1-1/2	std	CCMG-.041-B	H1630	H1631	
0.042	1/8	0.126	1-1/2	std	CCMG-.042-B	H1634	H1635	
0.043	1/8	0.129	1-1/2	std	CCMG-.043-B	H1638	H1639	
0.044	1/8	0.132	1-1/2	std	CCMG-.044-B	H1643	H1641	

sizes continued on next page



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Series: CCMG-_-B

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.045	1/8	0.068	1-1/2	stub	CCMGS-.045-B	18937	58937	78937
0.045	1/8	0.135	1-1/2	std	CCMG-.045-B	18938	58938	78938
0.045	1/8	0.250	2-1/2	long flute	CCMG-.0450-LF-B	12397	52397	72397
0.046	1/8	0.138	1-1/2	std	CCMG-.046-B	H1646	H1647	
0.047 (3/64)	1/8	0.071	1-1/2	stub	CCMGS-.047-B	H1739	H1740	H1601
0.047 (3/64)	1/8	0.141	1-1/2	std	CCMG-.047-B	H1650	H1651	H1652
0.048	1/8	0.144	1-1/2	std	CCMG-.048-B	H1656	H1657	
0.049	1/8	0.147	1-1/2	std	CCMG-.049-B	H1660	H1661	
0.050	1/8	0.075	1-1/2	stub	CCMGS-.050-B	18939	58939	78939
0.050	1/8	0.150	1-1/2	std	CCMG-.050-B	13161	53161	73161
0.050	1/8	0.300	2-1/2	long flute	CCMG-.0500-LF-B	12399	52399	72399
0.051	1/8	0.153	1-1/2	std	CCMG-.051-B	H1664	H1665	
0.052	1/8	0.156	1-1/2	std	CCMG-.052-B	H1668	H1669	
0.053	1/8	0.159	1-1/2	std	CCMG-.053-B	H1672	H1673	
0.054	1/8	0.162	1-1/2	std	CCMG-.054-B	H1676	H1677	
0.055	1/8	0.083	1-1/2	stub	CCMGS-.055-B	18940	58940	78940
0.055	1/8	0.165	1-1/2	std	CCMG-.055-B	18941	58941	78941
0.056	1/8	0.168	1-1/2	std	CCMG-.056-B	H1680	H1681	
0.057	1/8	0.171	1-1/2	std	CCMG-.057-B	H1684	H1685	
0.058	1/8	0.174	1-1/2	std	CCMG-.058-B	H1688	H1689	
0.059	1/8	0.177	1-1/2	std	CCMG-.059-B	H1692	H1693	
0.060	1/8	0.090	1-1/2	stub	CCMGS-.060-B	18942	58942	78942
0.060	1/8	0.180	1-1/2	std	CCMG-.060-B	13162	53162	73162
0.060	1/8	0.500	2-1/2	long flute	CCMG-.0600-LF-B	12400	52400	72400
0.062 (1/16)	1/8	0.093	1-1/2	stub	CCMGS-.062-B	H1696	H1697	H1698
0.062 (1/16)	1/8	0.186	1-1/2	std	CCMG-.062-B	H2011	H2012	H2013
0.065	1/8	0.098	1-1/2	stub	CCMGS-.065-B	18943	58943	78943
0.065	1/8	0.195	1-1/2	std	CCMG-.065-B	18944	58944	78944
0.070	1/8	0.105	1-1/2	stub	CCMGS-.070-B	18945	58945	78945
0.070	1/8	0.210	1-1/2	std	CCMG-.070-B	13163	53163	73163
0.075	1/8	0.113	1-1/2	stub	CCMGS-.075-B	18946	58946	78946
0.075	1/8	0.225	1-1/2	std	CCMG-.075-B	18947	58947	78947
0.075	1/8	0.500	2-1/2	long flute	CCMG-.0750-LF-B	12402	52402	72402
0.078 (5/64)	1/8	0.117	1-1/2	stub	CCMGS-.078-B	H1741	H1742	H1743
0.078 (5/64)	1/8	0.234	1-1/2	std	CCMG-.078-B	H1702	H1703	H1704
0.080	1/8	0.120	1-1/2	stub	CCMGS-.080-B	18948	58948	78948
0.080	1/8	0.240	1-1/2	std	CCMG-.080-B	13164	53164	73164
0.085	1/8	0.128	1-1/2	stub	CCMGS-.085-B	18949	58949	78949
0.085	1/8	0.255	1-1/2	std	CCMG-.085-B	18950	58950	78950
0.090	1/8	0.135	1-1/2	stub	CCMGS-.090-B	18951	58951	78951
0.090	1/8	0.270	1-1/2	std	CCMG-.090-B	13165	53165	73165
0.090	1/8	0.500	2-1/2	long flute	CCMG-.0900-LF-B	12403	52403	72403
0.093 (3/32)	1/8	0.140	1-1/2	stub	CCMGS-.093-B	H1744	H1745	H1746
0.093 (3/32)	1/8	0.279	1-1/2	std	CCMG-.093-B	H1708	H1709	H1710

sizes continued on next page

S E R I E S: CCMG-__-B

4 FLUTE MELIN MICRO BALL END MILLS

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.095	1/8	0.143	1-1/2	stub	CCMGS-.095-B	18952	58952	78952
0.095	1/8	0.285	1-1/2	std	CCMG-.095-B	18953	58953	78953
0.100	1/8	0.150	1-1/2	stub	CCMGS-.100-B	18954	58954	78954
0.100	1/8	0.300	1-1/2	std	CCMG-.100-B	18955	58955	78955
0.105	1/8	0.315	1-1/2	std	CCMG-.105-B	H1714	H1715	
0.110	1/8	0.330	1-1/2	std	CCMG-.110-B	H1719	H1720	
0.115	1/8	0.345	1-1/2	std	CCMG-.115-B	H1724	H1725	
0.118	1/8	0.177	1-1/2	stub	CCMGS-.118-B	H1990	H1991	
0.118	1/8	0.354	1-1/2	std	CCMG-.118-B	H1992	H1993	
0.120	1/8	0.360	1-1/2	std	CCMG-.120-B	H1727	H1728	
0.125 (1/8)	1/8	0.750	2-1/2	std	CCMG-.1250-LF-B	12404	52404	72404



LARGER Sizes In [Full Line Catalog](#)

S E R I E S: CCMG-__-B (metric)

4 FLUTE MELIN MICRO BALL END MILLS

(product code PIC2)



DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP
0.3mm	3mm	0.9mm	38mm	std	CCMG-M0.3-B	13692	53692
0.4mm	3mm	1.2mm	38mm	std	CCMG-M0.4-B	13693	53693
0.5mm	3mm	1.5mm	38mm	std	CCMG-M0.5-B	13694	53694
0.6mm	3mm	1.8mm	38mm	std	CCMG-M0.6-B	13695	53695
0.7mm	3mm	2.1mm	38mm	std	CCMG-M0.7-B	13696	53696
0.8mm	3mm	2.4mm	38mm	std	CCMG-M0.8-B	13697	53697
0.9mm	3mm	2.7mm	38mm	std	CCMG-M0.9-B	13698	53698
1.0mm	3mm	3.0mm	38mm	std	CCMG-M3M1-B	16801	56801
1.1mm	3mm	3.3 mm	38mm	std	CCMG-M1.1-B	13700	53700
1.2mm	3mm	3.6mm	38mm	std	CCMG-M1.2-B	13701	53701
1.3mm	3mm	3.9mm	38mm	std	CCMG-M1.3-B	13702	53702
1.4mm	3mm	4.2mm	38mm	std	CCMG-M1.4-B	13703	53703
1.5mm	3mm	4.5mm	38mm	std	CCMG-M1.5-B	13704	53704



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S E R I E S: CCMG-___-R(radius)

4 FLUTE MELIN MICRO RADIUS END MILLS



DIA D ₁	SHK D ₂	LOC L ₂	RAD	OAL L ₁	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.020	1/8	0.060	0.005	1-1/2	CCMG-.020-R005	H1754	H1755	H1756
0.025	1/8	0.075	0.005	1-1/2	CCMG-.025-R005	H1757	H1758	H1759
0.030	1/8	0.090	0.005	1-1/2	CCMG-.030-R005	H1760	H1761	H1762
0.031	1/8	0.093	0.005	1-1/2	CCMG-.031-R005	H1763	H1764	H1765
0.035	1/8	0.105	0.005	1-1/2	CCMG-.035-R005	H1766	H1767	H1768
0.039	1/8	0.117	0.005	1-1/2	CCMG-.039-R005	H1769	H1770	H2056
0.040	1/8	0.120	0.005	1-1/2	CCMG-.040-R005	H1771	H1772	H1773
0.040	1/8	0.120	0.010	1-1/2	CCMG-.040-R010	H1774	H1775	H1776
0.045	1/8	0.068	0.010	1-1/2	CCMGS-.045-R010	14715	54715	74715
0.045	1/8	0.135	0.005	1-1/2	CCMG-.045-R005	H1777	H1778	H1779
0.045	1/8	0.135	0.010	1-1/2	CCMG-.045-R010	H1780	H1781	H1782
0.047	1/8	0.141	0.005	1-1/2	CCMG-.047-R005	H1783	H1784	H1785
0.047	1/8	0.141	0.010	1-1/2	CCMG-.047-R010	H1786	H1787	H1788
0.050	1/8	0.150	0.005	1-1/2	CCMG-.050-R005	H1789	H1790	H1791
0.050	1/8	0.150	0.010	1-1/2	CCMG-.050-R010	H1792	H1793	H1794
0.055	1/8	0.165	0.005	1-1/2	CCMG-.055-R005	H1795	H1796	H1797
0.055	1/8	0.165	0.010	1-1/2	CCMG-.055-R010	H1798	H1799	H1800
0.060	1/8	0.180	0.005	1-1/2	CCMG-.060-R005	H1801	H1802	H1803
0.060	1/8	0.180	0.010	1-1/2	CCMG-.060-R010	H1804	H1805	H1806
0.062	1/8	0.186	0.005	1-1/2	CCMG-.062-R005	H1807	H1808	H1809
0.062	1/8	0.186	0.010	1-1/2	CCMG-.062-R010	H1810	H1811	H1812
0.062	1/8	0.186	0.015	1-1/2	CCMG-.062-R015	H1813	H1814	H1815
0.065	1/8	0.195	0.005	1-1/2	CCMG-.065-R005	H1816	H1817	H1818
0.065	1/8	0.195	0.010	1-1/2	CCMG-.065-R010	H1819	H1820	H1821
0.065	1/8	0.195	0.015	1-1/2	CCMG-.065-R015	H1822	H1823	H1824

sizes continued on next page

S E R I E S: CCMG-__-R(radius)

4 FLUTE MELIN MICRO RADIUS END MILLS

(product code PIC2)

DIA D ₁	SHK D ₂	LOC L ₂	RAD	OAL L ₁	BRIGHT PART NAME	BRIGHT EDP	ALTIN EDP	DLC EDP
0.070	1/8	0.210	0.005	1-1/2	CCMG-.070-R005	H1825	H1826	H1827
0.070	1/8	0.210	0.010	1-1/2	CCMG-.070-R010	H1828	H1829	H1830
0.070	1/8	0.210	0.015	1-1/2	CCMG-.070-R015	H1831	H1832	H1833
0.075	1/8	0.225	0.005	1-1/2	CCMG-.075-R005	H1834	H1835	H1836
0.075	1/8	0.225	0.010	1-1/2	CCMG-.075-R010	H1837	H1838	H1839
0.075	1/8	0.225	0.015	1-1/2	CCMG-.075-R015	H1840	H1841	H1842
0.078	1/8	0.234	0.005	1-1/2	CCMG-.078-R005	H1843	H1844	H1845
0.078	1/8	0.234	0.010	1-1/2	CCMG-.078-R010	H1846	H1847	H1848
0.078	1/8	0.234	0.015	1-1/2	CCMG-.078-R015	H2036	H2037	H2038
0.080	1/8	0.240	0.005	1-1/2	CCMG-.080-R005	H1849	H1850	H1851
0.080	1/8	0.240	0.010	1-1/2	CCMG-.080-R010	H1852	H1853	H1854
0.080	1/8	0.240	0.015	1-1/2	CCMG-.080-R015	H1855	H1856	H1857
0.085	1/8	0.255	0.005	1-1/2	CCMG-.085-R005	H1858	H1859	H1860
0.085	1/8	0.255	0.010	1-1/2	CCMG-.085-R010	H1861	H1862	H1863
0.085	1/8	0.255	0.015	1-1/2	CCMG-.085-R015	H1864	H1865	H1866
0.090	1/8	0.270	0.005	1-1/2	CCMG-.090-R005	H1867	H1868	H1869
0.090	1/8	0.270	0.010	1-1/2	CCMG-.090-R010	H1870	H1871	H1872
0.090	1/8	0.270	0.015	1-1/2	CCMG-.090-R015	H1873	H1874	H1875
0.093	1/8	0.279	0.005	1-1/2	CCMG-.093-R005	H1876	H1877	H1878
0.093	1/8	0.279	0.010	1-1/2	CCMG-.093-R010	H1879	H1880	H1881
0.093	1/8	0.279	0.015	1-1/2	CCMG-.093-R015	H1882	H1883	H1884
0.093	1/8	0.279	0.020	1-1/2	CCMG-.093-R020	H1885	H1886	H1887
0.093	1/8	0.279	0.030	1-1/2	CCMG-.093-R030	H2057	H2058	H2125
0.095	1/8	0.285	0.005	1-1/2	CCMG-.095-R005	H1888	H1889	H1890
0.095	1/8	0.285	0.010	1-1/2	CCMG-.095-R010	H1891	H1892	H1893
0.095	1/8	0.285	0.015	1-1/2	CCMG-.095-R015	H1894	H1895	H1896
0.100	1/8	0.300	0.005	1-1/2	CCMG-.100-R005	H1897	H1898	H1899
0.100	1/8	0.300	0.010	1-1/2	CCMG-.100-R010	H1900	H1901	H1902
0.100	1/8	0.300	0.015	1-1/2	CCMG-.100-R015	H1903	H1904	H1905
0.125	1/8	0.500	0.005	1-1/2	CCMG-404-R005	H1906	H1907	H1908
0.125	1/8	0.500	0.010	1-1/2	CCMG-404-R010	11067	51067	71067
0.125	1/8	0.500	0.015	1-1/2	CCMG-404-R015	15422	55422	75422
0.125	1/8	0.500	0.020	1-1/2	CCMG-404-R020	11069	51069	71069
0.125	1/8	0.500	0.030	1-1/2	CCMG-404-R030	11071	51071	71071



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