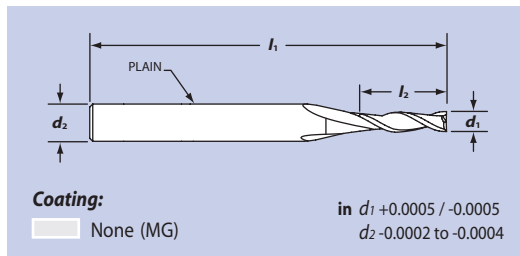


# MINIATURE E12M END MILLS

For general milling applications

## 2 Helical Flutes For micro-machining

### E12M



#### Inch

$d_1$ Cutter Dia	$d_2$ Shank Dia	$l_2$ Length of Cut	$l_1$ Overall Length	Style Code	MG EDP Number	List Price
.001	1/8	.005	1-1/2	SR	90625	54.03
.002	1/8	.005	1-1/2	SR	90626	45.14
.003	1/8	.005	1-1/2	SR	90627	38.94
.004	1/8	.006	1-1/2	SR	90628	33.78
.005	1/8	.008	1-1/2	SR	90663	31.37
		.015	1-1/2	RR	90629	31.37
.006	1/8	.009	1-1/2	SR	90664	31.38
		.018	1-1/2	RR	90630	31.37
.007	1/8	.011	1-1/2	SR	90665	28.30
		.021	1-1/2	RR	90631	28.31
.008	1/8	.012	1-1/2	SR	90666	28.30
		.024	1-1/2	RR	90632	28.31
.009	1/8	.014	1-1/2	SR	90667	26.14
		.027	1-1/2	RR	90633	26.14
.010	1/8	.015	1-1/2	SR	90668	24.10
		.030	1-1/2	RR	30101	24.10
.011	1/8	.017	1-1/2	SR	90669	23.41
		.033	1-1/2	RR	90634	23.42
.012	1/8	.018	1-1/2	SR	90670	23.41
		.036	1-1/2	RR	90635	23.42
.013	1/8	.020	1-1/2	SR	90671	17.59
		.039	1-1/2	RR	90636	17.60

continued in next column

#### Inch • Continued

$d_1$ Cutter Dia	$d_2$ Shank Dia	$l_2$ Length of Cut	$l_1$ Overall Length	Style Code	MG EDP Number	List Price
.014	1/8	.021	1-1/2	SR	90672	15.32
		.042	1-1/2	RR	90637	15.32
.015	1/8	.023	1-1/2	SR	90673	13.21
		.045	1-1/2	RR	90600	13.21
.016	1/8	.024	1-1/2	SR	90674	13.21
		.048	1-1/2	RR	90640	13.21
.017	1/8	.026	1-1/2	SR	90675	13.21
		.051	1-1/2	RR	90641	13.21
.018	1/8	.027	1-1/2	SR	90676	12.55
		.054	1-1/2	RR	90642	12.56
.019	1/8	.029	1-1/2	SR	90677	12.55
		.057	1-1/2	RR	90643	12.56
.020	1/8	.030	1-1/2	SR	90678	12.55
		.060	1-1/2	RR	90601	12.56
.021	1/8	.032	1-1/2	SR	90679	11.09
		.063	1-1/2	RR	90644	11.08
.022	1/8	.033	1-1/2	SR	90680	11.09
		.066	1-1/2	RR	90645	11.08
.023	1/8	.035	1-1/2	SR	90681	11.09
		.069	1-1/2	RR	90646	11.08
.024	1/8	.036	1-1/2	SR	90682	11.09
		.072	1-1/2	RR	90647	11.08
.025	1/8	.038	1-1/2	SR	90683	11.09
		.075	1-1/2	RR	90602	11.08
.026	1/8	.039	1-1/2	SR	90684	10.63
		.078	1-1/2	RR	90648	10.63
.027	1/8	.041	1-1/2	SR	90685	10.63
		.081	1-1/2	RR	90649	10.63
.028	1/8	.042	1-1/2	SR	90686	10.40
		.084	1-1/2	RR	90650	10.40
.029	1/8	.044	1-1/2	SR	90687	10.40
		.087	1-1/2	RR	90651	10.40
.030	1/8	.045	1-1/2	SR	90688	10.40
		.090	1-1/2	RR	30102	10.40
.040	1/8	.060	1-1/2	SR	90689	9.27
		.120	1-1/2	RR	30104	9.27
.050	1/8	.075	1-1/2	SR	90690	9.28
		.150	1-1/2	RR	30107	9.28
.060	1/8	.090	1-1/2	SR	90691	9.28
		.180	1-1/2	RR	30109	9.28

Style Code Reference  
RR—Regular LOC, Regular OAL  
SR—Short LOC, Regular OAL

Carbon & tool steels  $\leq$  48 HRC ✓

Stainless steels ✓

Super alloys, Inconel® & titanium ✓

Cast irons ✓

Aluminum and non-ferrous ✓

✓ Suitable

- Miniature sizes for precision machining
- Stub and standard flute lengths

*Runout control is critical when using micro tools. Check setups carefully before use. Coating is usually not recommended for micro tools, particularly under .030 diameter because of edge rounding. Micran coating (see page 162) is recommended if coating is needed.*