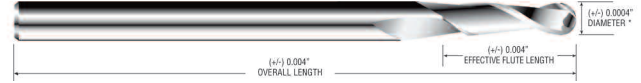


2 Flute ~ Ball Nose

STANDARD LENGTH Center Cutting End Mills

- Submicron grade solid carbide.
- 30° helix for general purpose applications.
- Coatings available upon request.



FRACTIONS

PART NUMBER	CUTTING DIAMETER	EFFECTIVE FLUTE LENGTH	OVERALL LENGTH	SHANK DIAMETER
ESM-0301	1/64	.047	1-1/2	1/8
ESM-0302	1/32	.094	1-1/2	1/8
ESM-0303	3/64	.141	1-1/2	1/8
ESM-0304	1/16	.188	1-1/2	1/8
ESM-0305	5/64	.234	1-1/2	1/8
ESM-0306	3/32	.281	1-1/2	1/8
ESM-0307	7/64	.328	1-1/2	1/8
ESM-0308	1/8	.375	1-1/2	1/8
ESM-0309	9/64	.500	2	3/16
ESM-0310	5/32	.500	2	3/16
ESM-0311	11/64	.563	2	3/16
ESM-0312	3/16	.563	2	3/16
ESM-0313	13/64	.625	2-1/2	1/4
ESM-0314	7/32	.625	2-1/2	1/4
ESM-0315	15/64	.750	2-1/2	1/4
ESM-0316	1/4	.750	2-1/2	1/4

DECIMALS

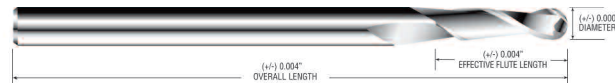
PART NUMBER	CUTTING DIAMETER	EFFECTIVE FLUTE LENGTH	OVERALL LENGTH	SHANK DIAMETER
ESM-0351	.010	.030	1-1/2	1/8
ESM-0352	.015	.045	1-1/2	1/8
ESM-0353	.020	.060	1-1/2	1/8
ESM-0354	.025	.075	1-1/2	1/8
ESM-0355	.030	.090	1-1/2	1/8
ESM-0356	.035	.105	1-1/2	1/8
ESM-0357	.040	.120	1-1/2	1/8
ESM-0358	.045	.135	1-1/2	1/8
ESM-0359	.050	.150	1-1/2	1/8
ESM-0360	.055	.165	1-1/2	1/8
ESM-0361	.060	.180	1-1/2	1/8
ESM-0362	.065	.195	1-1/2	1/8
ESM-0363	.070	.210	1-1/2	1/8
ESM-0364	.075	.225	1-1/2	1/8
ESM-0365	.080	.240	1-1/2	1/8
ESM-0366	.085	.255	1-1/2	1/8
ESM-0367	.090	.270	1-1/2	1/8
ESM-0368	.095	.285	1-1/2	1/8
ESM-0369	.100	.300	1-1/2	1/8

2 Flute ~ Ball Nose

STUB LENGTH

Center Cutting End Mills

- Submicron grade solid carbide.
- 30° helix for general purpose applications.
- Coatings available upon request.



FRACTIONS

PART NUMBER	CUTTING DIAMETER	EFFECTIVE FLUTE LENGTH	OVERALL LENGTH	SHANK DIAMETER
ESM-0401	1/64	.023	1-1/2	1/8
ESM-0402	1/32	.047	1-1/2	1/8
ESM-0403	3/64	.070	1-1/2	1/8
ESM-0404	1/16	.094	1-1/2	1/8
ESM-0405	5/64	.117	1-1/2	1/8
ESM-0406	3/32	.141	1-1/2	1/8
ESM-0407	7/64	.164	1-1/2	1/8
ESM-0408	1/8	.188	1-1/2	1/8
ESM-0409	9/64	.313	2	3/16
ESM-0410	5/32	.313	2	3/16
ESM-0411	11/64	.375	2	3/16
ESM-0412	3/16	.375	2	3/16
ESM-0413	13/64	.438	2	1/4
ESM-0414	7/32	.438	2	1/4
ESM-0415	15/64	.500	2	1/4
ESM-0416	1/4	.500	2	1/4

DECIMALS

PART NUMBER	CUTTING DIAMETER	EFFECTIVE FLUTE LENGTH	OVERALL LENGTH	SHANK DIAMETER
ESM-0451	.010	.015	1-1/2	1/8
ESM-0452	.015	.025	1-1/2	1/8
ESM-0453	.020	.030	1-1/2	1/8
ESM-0454	.025	.038	1-1/2	1/8
ESM-0455	.030	.045	1-1/2	1/8
ESM-0456	.035	.053	1-1/2	1/8
ESM-0457	.040	.060	1-1/2	1/8
ESM-0458	.045	.068	1-1/2	1/8
ESM-0459	.050	.075	1-1/2	1/8
ESM-0460	.055	.083	1-1/2	1/8
ESM-0461	.060	.090	1-1/2	1/8
ESM-0462	.065	.098	1-1/2	1/8
ESM-0463	.070	.105	1-1/2	1/8
ESM-0464	.075	.113	1-1/2	1/8
ESM-0465	.080	.120	1-1/2	1/8
ESM-0466	.085	.128	1-1/2	1/8
ESM-0467	.090	.135	1-1/2	1/8
ESM-0468	.095	.143	1-1/2	1/8
ESM-0469	.100	.150	1-1/2	1/8