



**3 FLUTE, BALL END  
ALL LENGTHS**



- ▶ 3 flute design will usually allow feed rates 50% faster than 2 flute tools.
- ▶ Used for general purpose milling in most materials of medium hardness such as steel, brass, iron, and non-ferrous materials.
- ▶ Made from premium submicron grain carbide.

Tolerance  $\pm .000/- .002$



TOOL	EDP	LENGTH	SIZE	SHANK	LOC	OAL
<b>EMG-400-1/2-B</b>	19577	STD	1/64	1/8	3/64	1-1/2
<b>EMGS-401-B</b>	17814	Stub	1/32	1/8	1/16	1-1/2
<b>EMG-401-B</b>	17815	STD	1/32	1/8	3/32	1-1/2
<b>EMGS-401-1/2-B</b>	17816	Stub	3/64	1/8	3/32	1-1/2
<b>EMG-401-1/2-B</b>	17817	STD	3/64	1/8	1/8	1-1/2
<b>EMGS-402-B</b>	17818	Stub	1/16	1/8	1/8	1-1/2
<b>EMG-402-B</b>	17819	STD	1/16	1/8	3/16	1-1/2
<b>EMG-402-1/2-B</b>	17820	STD	5/64	1/8	3/16	1-1/2
<b>EMGS-403-B</b>	17821	Stub	3/32	1/8	3/16	1-1/2
<b>EMG-403-B</b>	17822	STD	3/32	1/8	3/8	1-1/2
<b>EMG-403-1/2-B</b>	17823	STD	7/64	1/8	3/8	1-1/2
<b>EMGS-404-B</b>	17824	Stub	1/8	1/8	1/4	1-1/2
<b>EMG-404-B</b>	17825	STD	1/8	1/8	1/2	1-1/2
<b>EMG-404-MB</b>	19557	Med	1/8	1/8	3/4	2-1/4
<b>EMG-404-LB</b>	17826	STD	1/8	1/8	3/4	3
<b>EMG-404-EB</b>	19578	XL	1/8	1/8	1	3
<b>EMG-604-1/2-B</b>	10322	STD	9/64	3/16	1/2	2
<b>EMG-605-B</b>	17827	STD	5/32	3/16	9/16	2
<b>EMG-605-1/2-B</b>	10288	STD	11/64	3/16	9/16	2
<b>EMGS-606-B</b>	17828	Stub	3/16	3/16	5/16	1-1/2
<b>EMG-606-B</b>	17829	STD	3/16	3/16	5/8	2
<b>EMG-606-MB</b>	19558	Med	3/16	3/16	3/4	2-1/2
<b>EMG-606-LB</b>	17830	STD	3/16	3/16	3/4	3
<b>EMG-606-EB</b>	19581	XL	3/16	3/16	1-1/8	3
<b>EMG-806-1/2-B</b>	10348	STD	13/64	1/4	5/8	2-1/2
<b>EMG-807-B</b>	14061	STD	7/32	1/4	5/8	2-1/2
<b>EMG-807-1/2-B</b>	19584	STD	15/64	1/4	5/8	2-1/2
<b>EMGS-808-B</b>	17831	Stub	1/4	1/4	1/2	2
<b>EMG-808-B</b>	17832	STD	1/4	1/4	3/4	2-1/2
<b>EMG-808-LB</b>	17833	STD	1/4	1/4	1-1/8	3
<b>EMG-808-EB</b>	19585	XL	1/4	1/4	1-1/2	4
<b>EMG-1008-1/2-B</b>	19586	STD	17/64	5/16	3/4	2-1/2
<b>EMG-1009-B</b>	19587	STD	9/32	5/16	3/4	2-1/2
<b>EMG-1009-1/2-B</b>	19588	STD	19/64	5/16	13/16	2-1/2
<b>EMGS-1010-B</b>	17834	Stub	5/16	5/16	1/2	2
<b>EMG-1010-B</b>	17835	STD	5/16	5/16	13/16	2-1/2
<b>EMG-1010-LB</b>	17836	STD	5/16	5/16	1-1/8	3
<b>EMG-1010-EB</b>	19589	XL	5/16	5/16	1-5/8	4
<b>EMG-1210-1/2-B</b>	19590	STD	21/64	3/8	7/8	2-1/2
<b>EMG-1211-B</b>	19591	STD	11/32	3/8	7/8	2-1/2
<b>EMG-1211-1/2-B</b>	19592	STD	23/64	3/8	7/8	2-1/2
<b>EMGS-1212-B</b>	17837	Stub	3/8	3/8	5/8	2
<b>EMG-1212-B</b>	17838	STD	3/8	3/8	1	2-1/2
<b>EMG-1212-LB</b>	17839	STD	3/8	3/8	1-1/8	3
<b>EMG-1212-EB</b>	19593	XL	3/8	3/8	1-3/4	4
<b>EMG-1413-B</b>	19594	STD	13/32	7/16	1	2-3/4
<b>EMG-1413-1/2-B</b>	19595	STD	27/64	7/16	1	2-3/4
<b>EMG-1414-B</b>	17840	STD	7/16	7/16	1	2-3/4
<b>EMG-1414-LB</b>	19596	STD	7/16	7/16	2	4-1/2
<b>EMG-1614-1/2-B</b>	19597	STD	29/64	1/2	1	3
<b>EMG-1615-B</b>	19598	STD	15/32	1/2	1	3
<b>EMG-1615-1/2-B</b>	19599	STD	31/64	1/2	1	3
<b>EMGS-1616-B</b>	17841	Stub	1/2	1/2	5/8	2-1/2
<b>EMG-1616-B</b>	17842	STD	1/2	1/2	1	3
<b>EMG-1616-LB</b>	17843	STD	1/2	1/2	2	4
<b>EMG-1616-EB</b>	19559	XL	1/2	1/2	3	6

**COATINGS:** To order coated tools, add TiN, TiCN, or AlTiN after the tool name or change the first digit of the EDP to 2 for TN, 4 for TiCN, or 5 for AlTiN.



TOOL	EDP	LENGTH	SIZE	SHANK	LOC	OAL
<b>EMG-1818-B</b>	19560	STD	9/16	9/16	1-1/4	3-1/2
<b>EMGS-2020-B</b>	17844	Stub	5/8	5/8	3/4	3
<b>EMG-2020-B</b>	17845	STD	5/8	5/8	1-1/4	3-1/2
<b>EMG-2020-LB</b>	17846	STD	5/8	5/8	2-1/4	5
<b>EMG-2020-EB</b>	19561	XL	5/8	5/8	3	6
<b>EMG-2422-B</b>	19562	STD	11/16	3/4	1-3/8	4
<b>EMG-2424-B</b>	17847	STD	3/4	3/4	1-1/2	4
<b>EMG-2424-LB</b>	19563	Long	3/4	3/4	2-1/4	5
<b>EMG-2424-EB</b>	19564	XL	3/4	3/4	3	6
<b>EMG-2828-B</b>	19565	STD	7/8	7/8	1-1/2	4
<b>EMG-3232-B</b>	11397	STD	1	1	1-1/2	4

**NEW SIZES HIGHLIGHTED**

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