

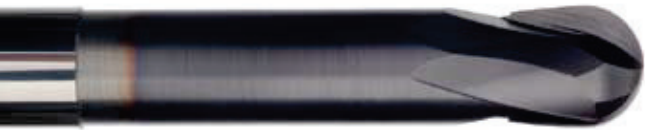
DIE • MOLD END MILLS

For specialty milling applications

2 Helical Flutes

To reduce work hardening

E520B

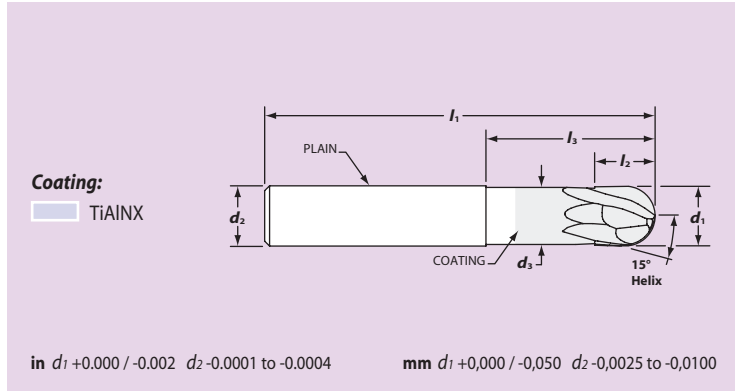


E520B • Ball

- Ball end with extended length
- For contouring of hardened materials
- Neck relief for side clearance
- Designed for hardened materials
- Superior **TiAINX** coating

	Carbon & tool steels ≤ 48 HRC	✓
	Carbon & tool steels > 48 HRC	✓✓✓
	Cast irons	✓

✓ Good ✓✓ Very Good ✓✓✓ Excellent



Inch

d_1 Cutter Dia	d_2 Shank Dia	l_2 Length of Cut	l_1 Overall Length	l_3 LBS	d_3 Neck Dia.	Style Code	TiAINX EDP Number	List Price
1/8	1/4	1/8	3	3/8	.118	SL	34288	61.79
3/16	1/4	3/16	3	9/16	.176	SL	34289	60.85
1/4	1/4	1/4	3	1-5/8	.235	SL	34290	59.64
3/8	3/8	3/8	4	2-1/4	.355	SX	34292	80.80
1/2	1/2	1/2	4	2-1/4	.475	SL	34293	117.86

Metric

d_1 Cutter Dia	d_2 Shank Dia	l_2 Length of Cut	l_1 Overall Length	l_3 LBS	d_3 Neck Dia.	Style Code	TiAINX EDP Number	List Price
3	6	3	75	9	2,8	SL	34295	61.79
4	6	4	75	12	3,8	SL	34296	60.85
6	6	6	75	40	5,4	SL	34298	59.64
10	10	10	100	55	9	SX	34300	87.36
12	12	12	100	55	10,8	SL	34301	105.84

Style Code Reference

SL—Short LOC, Long OAL

SX—Short LOC, X-Long OAL

Application Guide • Speed & Feed

Work Material Hardness	Type of Cut	Series Code	Axial DOC	Radial DOC	Number of Flutes	Speed (SFM)	Feed (Inches Per Tooth)				Speed (m/min)	Feed (mm Per Tooth)			
							1/8	1/4	3/8	1/2		3,0	6,0	9,0	12,0
< 28 HRc	Rough	E64B	.1 x D	.2 x D	4	400	0.0010	0.0020	0.0030	0.0040	122	0.0254	0.0508	0.0762	0.1016
	Rough	E520B	.05 x D	.1 x D	2	750	0.0020	0.0038	0.0042	0.0050	229	0.0508	0.0965	0.1067	0.1270
	Finish	E520B	.02 x D	.05 x D	2	850	0.0025	0.0048	0.0053	0.0065	259	0.0635	0.1219	0.1346	0.1651
28 HRc to 38 HRc	Rough	E64B	.1 x D	.2 x D	4	350	0.0010	0.0020	0.0030	0.0040	107	0.0254	0.0508	0.0762	0.1016
	Rough	E520B	.05 x D	.1 x D	2	700	0.0020	0.0038	0.0042	0.0050	213	0.0508	0.0965	0.1067	0.1270
	Finish	E520B	.02 x D	.05 x D	2	800	0.0023	0.0046	0.0051	0.0056	244	0.0584	0.1168	0.1295	0.1422
39 HRc to 48 HRc	Rough	E64B	.1 x D	.2 x D	4	300	0.0008	0.0016	0.0024	0.0032	91	0.0203	0.0406	0.0610	0.0813
	Rough	E520B	.05 x D	.1 x D	2	650	0.0018	0.0036	0.0038	0.0039	198	0.0457	0.0914	0.0965	0.0991
	Finish	E520B	.02 x D	.05 x D	2	750	0.0021	0.0042	0.0047	0.0052	229	0.0533	0.1067	0.1194	0.1321
49 HRc to 57 HRc	Rough	E520B	.02 x D	.1 x D	2	500	0.0016	0.0032	0.0034	0.0036	152	0.0406	0.0813	0.0864	0.0914
	Finish	E520B	.02 x D	.05 x D	2	600	0.0018	0.0036	0.0039	0.0041	183	0.0457	0.0914	0.0991	0.1041
58 HRc to 62 HRc	Rough	E520B	.02 x D	.1 x D	2	400	0.0015	0.0030	0.0032	0.0035	122	0.0381	0.0762	0.0813	0.0889
	Finish	E520B	.02 x D	.05 x D	2	500	0.0017	0.0034	0.0036	0.0038	152	0.0432	0.0864	0.0914	0.0965

DIE • MOLD END MILLS

For specialty milling applications

2 Helical Flutes

For contouring of hardened materials

E62B



E62B • Ball

4 Helical Flutes




For contouring of hardened materials

E64B

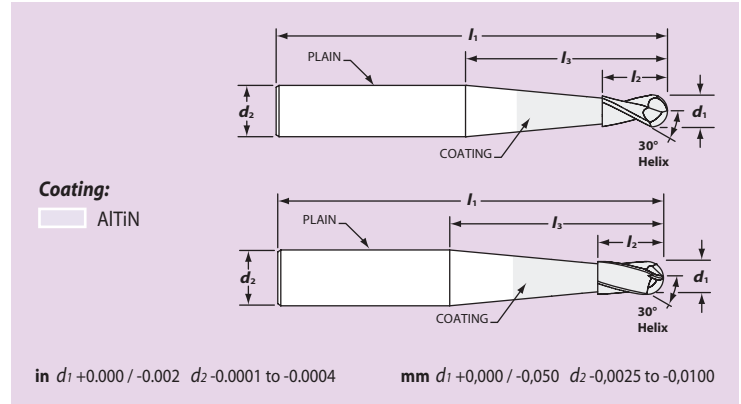


E64B • Ball

- Ball end with extended length
- Designed for hardened materials
- Superior **AlTiN** coating

	Carbon & tool steels ≤ 48 HRC	✓
	Carbon & tool steels > 48 HRC	✓
	Cast irons	✓

✓ Good ✓✓ Very Good ✓✓✓ Excellent



Inch

d_1 Cutter Dia	d_2 Shank Dia	l_2 Length of Cut	l_1 Overall Length	l_3 LBS	Style Code	E62B EDP Number	E64B EDP Number	List Price
3/32	3/16	3/16	2-1/2	1-3/4	SL	33271	33259	34.89
1/8	3/16	1/4	2-1/2	1-3/4	SL	33272	33260	34.89
3/16	1/4	5/16	3	2-1/8	SL	33273	33261	45.40
		3/8	4	2-1/2	SX	33274	33262	67.76
1/4	3/8	3/8	6	2-1/2	SE	33289	33266	116.53
		1/2	4	2-1/2	SX	33275	33263	67.76
3/8	3/8	5/8	4	2-1/2	SX	33276	33264	67.76
		5/8	6	2-1/2	SE	33291	33268	116.53
1/2	1/2	13/16	4	2-1/2	SL	33277	33265	105.25
		13/16	6	2-1/2	SX	33292	33269	156.42

Metric

d_1 Cutter Dia	d_2 Shank Dia	l_2 Length of Cut	l_1 Overall Length	l_3 LBS	Style Code	E62B EDP Number	E64B EDP Number	List Price
2	4	5	63	45	SL	02964	20932	34.25
3	4	6	63	45	SL	02965	20933	34.25
4	6	8	75	54	SL	02966	20934	44.99
		9	100	60	SX	02967	20935	81.40
6	10	9	150	69	SE	02985	20939	121.37
		12	100	60	SX	02968	20936	81.40
8	10	12	150	72	SE	02886	20940	121.37
		16	100	60	SX	02969	20937	81.40
10	10	16	150	76	SE	02887	20941	121.37
		20	100	60	SL	02970	20938	103.83
12	12	20	150	80	SX	02888	20942	154.94

Style Code Reference

SE—Short LOC, Extreme OAL

SL—Short LOC, Long OAL

SX—Short LOC, X-Long OAL