

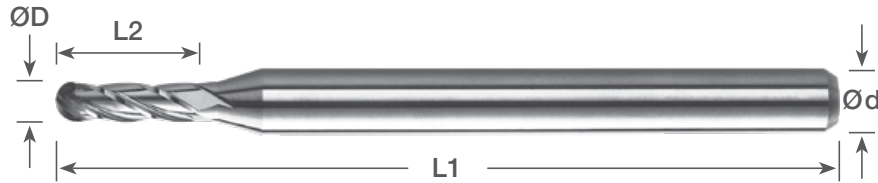
4 FLUTE

STANDARD LENGTH BALL NOSE END MILLS

0.0100" - 0.0360" DIAMETER

Mirror Surface Finishes

Sub Micron Grain Carbide



STANDARD Length (Inch Sizes)

Uncoated		AlTiN Coating		DLC* Coating		Dimensions (in)			
Part Number	Stock	Part Number	Stock	Part Number	Stock	ØD ^{+0.0000} _{-0.0010}	Ød	L1	L2
1825-0100.030	●	1825-0100L030	●	1825-0100D030	■	0.0100	1/8	1 1/2	0.030
1825-0110.033	●	1825-0110L033	●	-	-	0.0110	1/8	1 1/2	0.033
1825-0120.036	●	1825-0120L036	●	-	-	0.0120	1/8	1 1/2	0.036
1825-0130.039	●	1825-0130L039	●	-	-	0.0130	1/8	1 1/2	0.039
1825-0140.042	●	1825-0140L042	●	-	-	0.0140	1/8	1 1/2	0.042
1825-0156.047	●	1825-0156L047	●	1825-0156D047	■	0.0156 (1/64)	1/8	1 1/2	0.047
1825-0160.048	●	1825-0160L048	●	-	-	0.0160	1/8	1 1/2	0.048
1825-0170.051	●	1825-0170L051	●	-	-	0.0170	1/8	1 1/2	0.051
1825-0180.054	●	1825-0180L054	●	-	-	0.0180	1/8	1 1/2	0.054
1825-0190.057	●	1825-0190L057	●	-	-	0.0190	1/8	1 1/2	0.057
1825-0200.060	●	1825-0200L060	●	1825-0200D060	■	0.0200	1/8	1 1/2	0.060
1825-0210.063	●	1825-0210L063	●	-	-	0.0210	1/8	1 1/2	0.063
1825-0220.066	●	1825-0220L066	●	-	-	0.0220	1/8	1 1/2	0.066
1825-0230.069	●	1825-0230L069	●	-	-	0.0230	1/8	1 1/2	0.069
1825-0240.072	●	1825-0240L072	●	-	-	0.0240	1/8	1 1/2	0.072
1825-0250.075	●	1825-0250L075	●	1825-0250D075	■	0.0250	1/8	1 1/2	0.075
1825-0260.078	●	1825-0260L078	●	-	-	0.0260	1/8	1 1/2	0.078
1825-0270.081	●	1825-0270L081	●	-	-	0.0270	1/8	1 1/2	0.081
1825-0280.084	●	1825-0280L084	●	-	-	0.0280	1/8	1 1/2	0.084
1825-0290.087	●	1825-0290L087	●	-	-	0.0290	1/8	1 1/2	0.087
1825-0300.090	●	1825-0300L090	●	1825-0300D090	■	0.0300	1/8	1 1/2	0.090
1825-0312.094	●	1825-0312L094	●	1825-0312D094	■	0.0312 (1/32)	1/8	1 1/2	0.094
1825-0320.096	●	1825-0320L096	●	-	-	0.0320	1/8	1 1/2	0.096
1825-0330.099	●	1825-0330L099	●	-	-	0.0330	1/8	1 1/2	0.099
1825-0340.102	●	1825-0340L102	●	-	-	0.0340	1/8	1 1/2	0.102
1825-0350.105	●	1825-0350L105	●	1825-0350D105	■	0.0350	1/8	1 1/2	0.105
1825-0360.108	●	1825-0360L108	●	-	-	0.0360	1/8	1 1/2	0.108

*DLC is Amorphous Diamond

- L SOLID TOOLS
- DRILLS
- END MILLS
- ROUTERS
- THREAD MILLS & TAPS
- ENGRAVERS
- BORING BARS
- REAMERS
- TECHNICAL

SERIES 1825 WORKPIECE MATERIAL																
Coating	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N Brass	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
AlTiN	★	★	★	☆	☆	☆									☆	☆
DLC							☆	★	☆	☆	★	★	★			
Uncoated							☆	☆	☆	★	☆	☆	☆	☆		☆

★ : Priority ☆ : Applicable Materials

Recommended Cutting Conditions Page L221

Symbol Descriptions Page L3

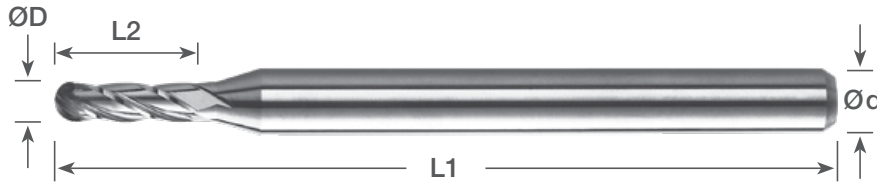
4 FLUTE

STANDARD LENGTH BALL NOSE END MILLS

0.0370" - 0.0650" DIAMETER

Mirror Surface Finishes

Sub Micron Grain Carbide



STANDARD Length (Inch Sizes)

Uncoated		AlTiN Coating		DLC* Coating		Dimensions (in)			
Part Number	Stock	Part Number	Stock	Part Number	Stock	ØD ^{+0.0000} _{-0.0010}	Ød	L1	L2
1825-0370.111	●	1825-0370L111	●	-	-	0.0370	1/8	1 1/2	0.111
1825-0380.114	●	1825-0380L114	●	-	-	0.0380	1/8	1 1/2	0.114
1825-0394.117	●	1825-0394L117	●	1825-0394D117	■	0.0394	1/8	1 1/2	0.117
1825-0400.120	●	1825-0400L120	●	1825-0400D120	■	0.0400	1/8	1 1/2	0.120
1825-0410.123	●	1825-0410L123	●	-	-	0.0410	1/8	1 1/2	0.123
1825-0420.126	●	1825-0420L126	●	-	-	0.0420	1/8	1 1/2	0.126
1825-0430.129	●	1825-0430L129	●	-	-	0.0430	1/8	1 1/2	0.129
1825-0440.132	●	1825-0440L132	●	-	-	0.0440	1/8	1 1/2	0.132
1825-0450.135	●	1825-0450L135	●	1825-0450D135	■	0.0450	1/8	1 1/2	0.135
1825-0460.138	●	1825-0460L138	●	-	-	0.0460	1/8	1 1/2	0.138
1825-0469.141	●	1825-0469L141	●	1825-0469D141	■	0.0469 (3/64)	1/8	1 1/2	0.141
1825-0480.144	●	1825-0480L144	●	-	-	0.0480	1/8	1 1/2	0.144
1825-0490.147	●	1825-0490L147	●	-	-	0.0490	1/8	1 1/2	0.147
1825-0500.150	●	1825-0500L150	●	1825-0500D150	■	0.0500	1/8	1 1/2	0.150
1825-0510.153	●	1825-0510L153	●	-	-	0.0510	1/8	1 1/2	0.153
1825-0520.156	●	1825-0520L156	●	-	-	0.0520	1/8	1 1/2	0.156
1825-0530.159	●	1825-0530L159	●	-	-	0.0530	1/8	1 1/2	0.159
1825-0540.162	●	1825-0540L162	●	-	-	0.0540	1/8	1 1/2	0.162
1825-0550.165	●	1825-0550L165	●	1825-0550D165	■	0.0550	1/8	1 1/2	0.165
1825-0560.168	●	1825-0560L168	●	-	-	0.0560	1/8	1 1/2	0.168
1825-0570.171	●	1825-0570L171	●	-	-	0.0570	1/8	1 1/2	0.171
1825-0580.174	●	1825-0580L174	●	-	-	0.0580	1/8	1 1/2	0.174
1825-0590.177	●	1825-0590L177	●	-	-	0.0590	1/8	1 1/2	0.177
1825-0600.180	●	1825-0600L180	●	1825-0600D180	■	0.0600	1/8	1 1/2	0.180
1825-0625.188	●	1825-0625L188	●	1825-0625D188	■	0.0625 (1/16)	1/8	1 1/2	0.188
1825-0650.195	●	1825-0650L195	●	-	-	0.0650	1/8	1 1/2	0.195

*DLC is Amorphous Diamond

Coating	SERIES 1825 WORKPIECE MATERIAL															
	P	P	H	H	M	K	N	N	N	N	N	N	N	S	S	
	Steel ~30HRC	Steel 30-40HRC	Hardened Steel ~55HRC	Hardened Steel ~68HRC	Stainless Steel	Cast Iron	Aluminum	Graphite	Copper Alloy	Brass	CFRP	Plastic	Thermocast Plastic	High Density Plastic	Nickel / Cobalt	Titanium Alloy
AlTiN	★	★	★	☆	☆	☆									☆	☆
DLC							☆	★	☆	☆	★	★	★			
Uncoated							☆	☆	☆	★	☆	☆	☆	☆		☆

★ : Priority ☆ : Applicable Materials

Recommended Cutting Conditions Page L221

Symbol Descriptions Page L3

● : U.S. Stock Standard
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 DRILLING **K**
 SOLID TOOLS **L**
 MILLING **M**
 HSK TOOLING **N**
 SPARE PARTS **P**
 TECHNICAL **R**
 INDEX **T**

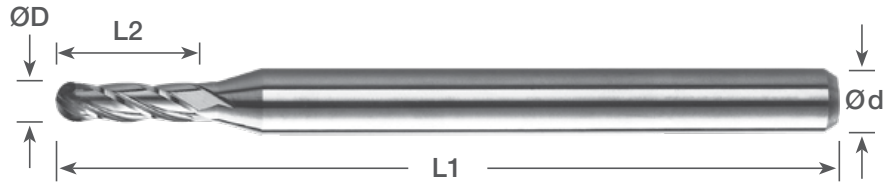
4 FLUTE

STANDARD LENGTH BALL NOSE END MILLS

0.0700" - 0.2500" DIAMETER

Mirror Surface Finishes

Sub Micron Grain Carbide



STANDARD Length (Inch Sizes)

Uncoated		AlTiN Coating		DLC* Coating		Dimensions (in)			
Part Number	Stock	Part Number	Stock	Part Number	Stock	ØD ^{+0.0000} _{-0.0010}	Ød	L1	L2
1825-0700.210	●	1825-0700L210	●	1825-0700D210	■	0.0700	1/8	1 1/2	0.210
1825-0750.225	●	1825-0750L225	●	1825-0750D225	■	0.0750	1/8	1 1/2	0.225
1825-0781.234	●	1825-0781L234	●	1825-0781D234	■	0.0781 (5/64)	1/8	1 1/2	0.234
1825-0800.240	●	1825-0800L240	●	1825-0800D240	■	0.0800	1/8	1 1/2	0.240
1825-0850.255	●	1825-0850L255	●	1825-0850D255	■	0.0850	1/8	1 1/2	0.255
1825-0900.270	●	1825-0900L270	●	1825-0900D270	■	0.0900	1/8	1 1/2	0.270
1825-0938.281	●	1825-0938L281	●	1825-0938D281	■	0.0938 (3/32)	1/8	1 1/2	0.281
1825-0950.285	●	1825-0950L285	●	1825-0950D285	■	0.0950	1/8	1 1/2	0.285
1825-1000.300	●	1825-1000L300	●	1825-1000D300	■	0.1000	1/8	1 1/2	0.300
1825-1050.315	●	1825-1050L315	●	1825-1050D315	■	0.1050	1/8	1 1/2	0.315
1825-1094.328	●	1825-1094L328	●	1825-1094D328	■	0.1094 (7/64)	1/8	1 1/2	0.328
1825-1100.330	●	1825-1100L330	●	1825-1100D330	■	0.1100	1/8	1 1/2	0.330
1825-1150.345	●	1825-1150L345	●	1825-1150D345	■	0.1150	1/8	1 1/2	0.345
1825-1181.355	●	1825-1181L355	●	1825-1181D355	■	0.1181	1/8	1 1/2	0.355
1825-1200.360	●	1825-1200L360	●	1825-1200D360	■	0.1200	1/8	1 1/2	0.360
1825-1250.375	●	1825-1250L375	●	1825-1250D375	■	0.1250 (1/8)	1/8	1 1/2	0.375
1825-1406.500	●	1825-1406L500	●	1825-1406D500	■	0.1406 (9/64)	3/16	2	0.500
1825-1562.562	●	1825-1562L562	●	1825-1562D562	■	0.1562 (5/32)	3/16	2	0.562
1825-1563.500	●	1825-1563L500	●	1825-1563D500	■	0.1563 (5/32)	3/16	2	0.500
1825-1719.563	●	1825-1719L563	●	1825-1719D563	■	0.1719 (11/64)	3/16	2	0.563
1825-1875.563	●	1825-1875L563	●	1825-1875D563	■	0.1875 (3/16)	3/16	2	0.563
1825-1875.625	●	1825-1875L625	●	1825-1875D625	■	0.1875 (3/16)	3/16	2	0.625
1825-2031.625	●	1825-2031L625	●	1825-2031D625	■	0.2031 (13/64)	1/4	2 1/2	0.625
1825-2188.625	●	1825-2188L625	●	1825-2188D625	■	0.2188 (7/32)	1/4	2 1/2	0.625
1825-2344.750	●	1825-2344L750	●	1825-2344D750	■	0.2344 (15/64)	1/4	2 1/2	0.750
1825-2500.750	●	1825-2500L750	●	1825-2500D750	■	0.2500 (1/4)	1/4	2 1/2	0.750

*DLC is Amorphous Diamond

- L SOLID TOOLS
- DRILLS
- END MILLS
- ROUTERS
- THREAD MILLS & TAPS
- ENGRAVERS
- BORING BARS
- REAMERS
- TECHNICAL

SERIES 1825 WORKPIECE MATERIAL																
Coating	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N Brass	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
AlTiN	★	★	★	☆	☆	☆									☆	☆
DLC							☆	★	☆	☆	★	★	★			
Uncoated							☆	☆	☆	★	☆	☆	☆	☆		☆

★ : Priority ☆ : Applicable Materials

Recommended Cutting Conditions Page L221, L223

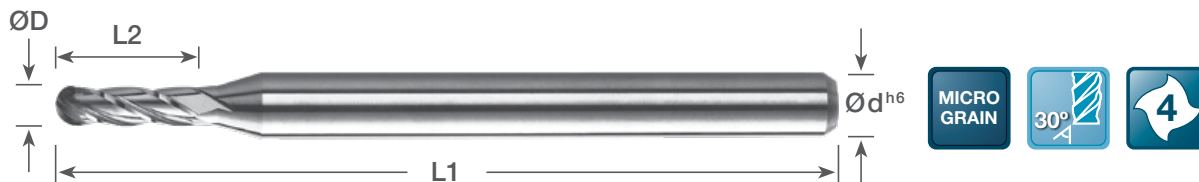
Symbol Descriptions Page L3

4 FLUTE

STANDARD LENGTH BALL NOSE END MILLS

0.40mm - 6.00mm DIAMETER

Mirror Surface Finishes
Sub Micron Grain Carbide



STANDARD Length (Metric Sizes)

Uncoated		AlTiN Coating		Dimensions (mm)			
Part Number	Stock	Part Number	Stock	ØD ^{+0.00mm -0.02mm}	Ød ^{h6}	L1	L2
1825-0157.047	●	1825-0157L047	●	0.40	3.00	38.00	1.20
1825-0177.053	●	1825-0177L053	●	0.45	3.00	38.00	1.35
1825-0197.059	●	1825-0197L059	●	0.50	3.00	38.00	1.50
1825-0236.071	●	1825-0236L071	●	0.60	3.00	38.00	1.80
1825-0276.083	●	1825-0276L083	●	0.70	3.00	38.00	2.10
1825-0315.095	●	1825-0315L095	●	0.80	3.00	38.00	2.40
1825-0354.106	●	1825-0354L106	●	0.90	3.00	38.00	2.70
1825-0394.118	●	1825-0394L118	●	1.00	3.00	38.00	3.00
1825-0433.130	●	1825-0433L130	●	1.10	3.00	38.00	3.30
1825-0472.142	●	1825-0472L142	●	1.20	3.00	38.00	3.60
1825-0512.154	●	1825-0512L154	●	1.30	3.00	38.00	3.90
1825-0551.165	●	1825-0551L165	●	1.40	3.00	38.00	4.20
1825-0591.177	●	1825-0591L177	●	1.50	3.00	38.00	4.50
1825-0630.189	●	1825-0630L189	●	1.60	3.00	38.00	4.80
1825-0669.200	●	1825-0669L200	●	1.70	3.00	38.00	5.10
1825-0709.213	●	1825-0709L213	●	1.80	3.00	38.00	5.40
1825-0748.224	●	1825-0748L224	●	1.90	3.00	38.00	5.70
1825-0787.236	●	1825-0787L236	●	2.00	3.00	38.00	6.00
1825-0984.295	●	1825-0984L295	●	2.50	3.00	38.00	7.50
1825-1181.354	●	1825-1181L354	●	3.00	3.00	38.00	9.00
1825-1378.413	●	1825-1378L413	●	3.50	4.00	50.00	10.50
1825-1575.473	●	1825-1575L473	●	4.00	5.00	50.00	12.00
1825-1772.532	●	1825-1772L532	●	4.50	5.00	50.00	13.50
1825-1968.590	●	1825-1968L590	●	5.00	5.00	50.00	15.00
1825-2165.650	●	1825-2165L650	●	5.50	6.00	50.00	16.50
1825-2362.709	●	1825-2362L709	●	6.00	6.00	50.00	18.00

SERIES 1825 WORKPIECE MATERIAL																
Coating	P	P	H	H	M	K	N	N	N	N	N	N	N	S	S	
	Steel ~30HRC	Steel 30-40HRC	Hardened Steel ~55HRC	Hardened Steel ~68HRC	Stainless Steel	Cast Iron	Aluminum	Graphite	Copper Alloy	Brass	CFRP	Plastic	Thermoset Plastic	High Density Plastic	Nickel / Cobalt	Titanium Alloy
AlTiN	★	★	★	☆	☆	☆	☆	☆	☆	☆	★	☆	☆	☆	☆	☆
Uncoated							☆	☆	☆	☆	☆	☆	☆	☆	☆	☆

★ : Priority ☆ : Applicable Materials

Recommended Cutting Conditions Page L222, L224

Symbol Descriptions Page L3

● : U.S. Stock Standard
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