

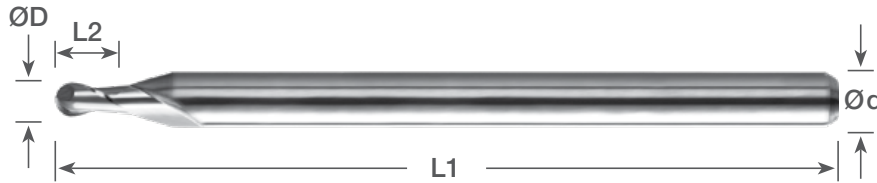
2 FLUTE

STUB LENGTH BALL NOSE END MILLS

0.0050" - 0.0350" DIAMETER

Mirror Surface Finishes

Sub Micron Grain Carbide



STUB 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
1635-0050.007	●	1635-0050L007	●	-	-	0.0050	1/8	1 1/2	0.007
1635-0060.009	●	1635-0060L009	●	-	-	0.0060	1/8	1 1/2	0.009
1635-0070.010	●	1635-0070L010	●	-	-	0.0070	1/8	1 1/2	0.010
1635-0080.012	●	1635-0080L012	●	-	-	0.0080	1/8	1 1/2	0.012
1635-0090.013	●	1635-0090L013	●	-	-	0.0090	1/8	1 1/2	0.013
1635-0100.015	●	1635-0100L015	●	1635-0100D015	■	0.0100	1/8	1 1/2	0.015
1635-0110.016	●	1635-0110L016	●	-	-	0.0110	1/8	1 1/2	0.016
1635-0120.018	●	1635-0120L018	●	-	-	0.0120	1/8	1 1/2	0.018
1635-0130.019	●	1635-0130L019	●	-	-	0.0130	1/8	1 1/2	0.019
1635-0140.021	●	1635-0140L021	●	-	-	0.0140	1/8	1 1/2	0.021
1635-0150.023	●	1635-0150L023	●	1635-0150D023	■	0.0150	1/8	1 1/2	0.023
1635-0156.023	●	1635-0156L023	●	-	-	0.0156 (1/64)	1/8	1 1/2	0.023
1635-0160.024	●	1635-0160L024	●	-	-	0.0160	1/8	1 1/2	0.024
1635-0170.025	●	1635-0170L025	●	-	-	0.0170	1/8	1 1/2	0.025
1635-0180.027	●	1635-0180L027	●	-	-	0.0180	1/8	1 1/2	0.027
1635-0190.028	●	1635-0190L028	●	-	-	0.0190	1/8	1 1/2	0.028
1635-0200.030	●	1635-0200L030	●	1635-0200D030	■	0.0200	1/8	1 1/2	0.030
1635-0210.031	●	1635-0210L031	●	-	-	0.0210	1/8	1 1/2	0.031
1635-0220.033	●	1635-0220L033	●	-	-	0.0220	1/8	1 1/2	0.033
1635-0230.034	●	1635-0230L034	●	-	-	0.0230	1/8	1 1/2	0.034
1635-0240.036	●	1635-0240L036	●	-	-	0.0240	1/8	1 1/2	0.036
1635-0250.038	●	1635-0250L038	●	1635-0250D038	■	0.0250	1/8	1 1/2	0.038
1635-0260.039	●	1635-0260L039	●	-	-	0.0260	1/8	1 1/2	0.039
1635-0270.040	●	1635-0270L040	●	-	-	0.0270	1/8	1 1/2	0.040
1635-0280.042	●	1635-0280L042	●	-	-	0.0280	1/8	1 1/2	0.042
1635-0290.043	●	1635-0290L043	●	-	-	0.0290	1/8	1 1/2	0.043
1635-0300.045	●	1635-0300L045	●	1635-0300D045	■	0.0300	1/8	1 1/2	0.045
1635-0310.047	●	1635-0310L047	●	-	-	0.0310	1/8	1 1/2	0.047
1635-0312.047	●	1635-0312L047	●	-	-	0.0312 (1/32)	1/8	1 1/2	0.047
1635-0320.048	●	1635-0320L048	●	-	-	0.0320	1/8	1 1/2	0.048
1635-0330.050	●	1635-0330L050	●	-	-	0.0330	1/8	1 1/2	0.050
1635-0340.051	●	1635-0340L051	●	-	-	0.0340	1/8	1 1/2	0.051
1635-0350.053	●	1635-0350L053	●	1635-0350D053	■	0.0350	1/8	1 1/2	0.053

*DLC is Amorphous Diamond

SERIES 1635 WORKPIECE MATERIAL																
Coating	P	P	H	H	M	K	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
 ■ : NOT STOCKED - Call for Delivery

(U.S.) 1.888.848.8449
 (International) 001.714.428.3636
 Visit us online at KyoceraPrecisionTools.com

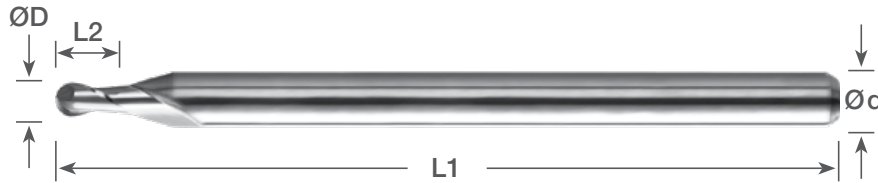
INSERT GRADES **A**
 TURNING INSERTS **B**
 GEN/PCD INSERTS **C**
 TURNING HOLDERS **D**
 SMALL TOOLS **E**
 BORING **F**
 GROOVING **G**
 CUT-OFF **H**
 THREADING **J**
 DRILLING **K**
 SOLID TOOLS **L**
 MILLING **M**
 HSK TOOLING **N**
 SPARE PARTS **P**
 TECHNICAL **R**
 INDEX **T**

2 FLUTE

STUB LENGTH BALL NOSE END MILLS

0.0360" - 0.2500" DIAMETER

Mirror Surface Finishes
Sub Micron Grain Carbide



STUB 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
1635-0360.054	●	1635-0360L054	●	1635-0360D054	■	0.0360	1/8	1 1/2	0.054
1635-0370.055	●	1635-0370L055	●	1635-0370D055	■	0.0370	1/8	1 1/2	0.055
1635-0380.057	●	1635-0380L057	●	1635-0380D057	■	0.0380	1/8	1 1/2	0.057
1635-0394.058	●	1635-0394L058	●	1635-0394D058	■	0.0394	1/8	1 1/2	0.058
1635-0400.060	●	1635-0400L060	●	1635-0400D060	■	0.0400	1/8	1 1/2	0.060
1635-0450.068	●	1635-0450L068	●	1635-0450D068	■	0.0450	1/8	1 1/2	0.068
1635-0469.070	●	1635-0469L070	●	1635-0469D070	■	0.0469 (3/64)	1/8	1 1/2	0.070
1635-0500.075	●	1635-0500L075	●	1635-0500D075	■	0.0500	1/8	1 1/2	0.075
1635-0550.083	●	1635-0550L083	●	1635-0550D083	■	0.0550	1/8	1 1/2	0.083
1635-0600.090	●	1635-0600L090	●	1635-0600D090	■	0.0600	1/8	1 1/2	0.090
1635-0625.094	●	1635-0625L094	●	1635-0625D094	■	0.0625 (1/16)	1/8	1 1/2	0.094
1635-0650.098	●	1635-0650L098	●	1635-0650D098	■	0.0650	1/8	1 1/2	0.098
1635-0700.105	●	1635-0700L105	●	1635-0700D105	■	0.0700	1/8	1 1/2	0.105
1635-0750.113	●	1635-0750L113	●	1635-0750D113	■	0.0750	1/8	1 1/2	0.113
1635-0781.117	●	1635-0781L117	●	1635-0781D117	■	0.0781 (5/64)	1/8	1 1/2	0.117
1635-0800.120	●	1635-0800L120	●	1635-0800D120	■	0.0800	1/8	1 1/2	0.120
1635-0850.128	●	1635-0850L128	●	1635-0850D128	■	0.0850	1/8	1 1/2	0.128
1635-0900.135	●	1635-0900L135	●	1635-0900D135	■	0.0900	1/8	1 1/2	0.135
1635-0938.141	●	1635-0938L141	●	1635-0938D141	■	0.0938 (3/32)	1/8	1 1/2	0.141
1635-0950.143	●	1635-0950L143	●	1635-0950D143	■	0.0950	1/8	1 1/2	0.143
1635-1000.150	●	1635-1000L150	●	1635-1000D150	■	0.1000	1/8	1 1/2	0.150
1635-1094.164	●	1635-1094L164	●	1635-1094D164	■	0.1094 (7/64)	1/8	1 1/2	0.164
1635-1181.178	●	1635-1181L178	●	1635-1181D178	■	0.1181	1/8	1 1/2	0.178
1635-1250.188	●	1635-1250L188	●	1635-1250D188	■	0.1250 (1/8)	1/8	1 1/2	0.188
1635-1406.313	●	1635-1406L313	●	1635-1406D313	■	0.1406 (9/64)	3/16	2	0.313
1635-1563.313	●	1635-1563L313	●	1635-1563D313	■	0.1563 (5/32)	3/16	2	0.313
1635-1719.375	●	1635-1719L375	●	1635-1719D375	■	0.1719 (11/64)	3/16	2	0.375
1635-1875.375	●	1635-1875L375	●	1635-1875D375	■	0.1875 (3/16)	3/16	2	0.375
1635-2031.438	●	1635-2031L438	●	1635-2031D438	■	0.2031 (13/64)	1/4	2 1/2	0.438
1635-2188.438	●	1635-2188L438	●	1635-2188D438	■	0.2188 (7/32)	1/4	2 1/2	0.438
1635-2344.500	●	1635-2344L500	●	1635-2344D500	■	0.2344 (15/64)	1/4	2 1/2	0.500
1635-2500.500	●	1635-2500L500	●	1635-2500D500	■	0.2500 (1/4)	1/4	2 1/2	0.500

*DLC is Amorphous Diamond

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

SERIES 1635 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

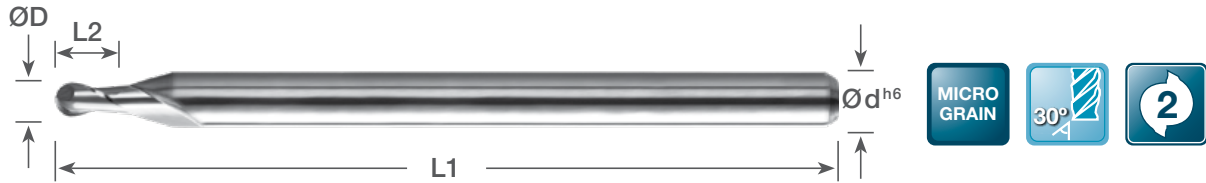
2 FLUTE

STUB LENGTH SQUARE END MILLS

0.10mm - 6.00mm DIAMETER

Mirror Surface Finishes

Sub Micron Grain Carbide



STUB Length (Metric Sizes)

Uncoated		AlTiN Coating		Dimensions (mm)			
Part Number	Stock	Part Number	Stock	ØD ^{+0.00mm -0.02mm}	Ød ^{h6}	L1	L2
1635-0039.006	●	1635-0039L006	●	0.10	3.00	38.00	0.15
1635-0059.009	●	1635-0059L009	●	0.15	3.00	38.00	0.23
1635-0079.012	●	1635-0079L012	●	0.20	3.00	38.00	0.30
1635-0098.015	●	1635-0098L015	●	0.25	3.00	38.00	0.38
1635-0118.018	●	1635-0118L018	●	0.30	3.00	38.00	0.45
1635-0138.021	●	1635-0138L021	●	0.35	3.00	38.00	0.53
1635-0157.024	●	1635-0157L024	●	0.40	3.00	38.00	0.60
1635-0177.027	●	1635-0177L027	●	0.45	3.00	38.00	0.68
1635-0197.030	●	1635-0197L030	●	0.50	3.00	38.00	0.75
1635-0236.035	●	1635-0236L035	●	0.60	3.00	38.00	0.90
1635-0276.041	●	1635-0276L041	●	0.70	3.00	38.00	1.05
1635-0315.047	●	1635-0315L047	●	0.80	3.00	38.00	1.20
1635-0354.053	●	1635-0354L053	●	0.90	3.00	38.00	1.35
1635-0394.059	●	1635-0394L059	●	1.00	3.00	38.00	1.50
1635-0433.065	●	1635-0433L065	●	1.10	3.00	38.00	1.65
1635-0472.071	●	1635-0472L071	●	1.20	3.00	38.00	1.80
1635-0512.077	●	1635-0512L077	●	1.30	3.00	38.00	1.95
1635-0551.083	●	1635-0551L083	●	1.40	3.00	38.00	2.10
1635-0591.089	●	1635-0591L089	●	1.50	3.00	38.00	2.25
1635-0630.095	●	1635-0630L095	●	1.60	3.00	38.00	2.40
1635-0669.098	●	1635-0669L098	●	1.70	3.00	38.00	2.50
1635-0709.106	●	1635-0709L106	●	1.80	3.00	38.00	2.70
1635-0748.112	●	1635-0748L112	●	1.90	3.00	38.00	2.85
1635-0787.118	●	1635-0787L118	●	2.00	3.00	38.00	3.00
1635-0984.148	●	1635-0984L148	●	2.50	3.00	38.00	3.75
1635-1181.177	●	1635-1181L177	●	3.00	3.00	38.00	4.50
1635-1378.207	●	1635-1378L207	●	3.50	4.00	50.00	5.25
1635-1575.236	●	1635-1575L236	●	4.00	5.00	50.00	6.00
1635-1772.266	●	1635-1772L266	●	4.50	5.00	50.00	6.75
1635-1968.295	●	1635-1968L295	●	5.00	5.00	50.00	7.50
1635-2165.325	●	1635-2165L325	●	5.50	6.00	50.00	8.25
1635-2362.354	●	1635-2362L354	●	6.00	6.00	50.00	9.00

SERIES 1635 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 Thermocast Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
AlTiN	★	★	★	☆	☆	☆									☆	☆
DLC							☆	★	☆	☆	★	★	★			
Uncoated							☆	☆	★	★	☆	★	★	☆		☆

★ : Priority ☆ : Applicable Materials

Recommended Cutting Conditions Page L222, L224

Symbol Descriptions Page L3

● : U.S. Stock Standard
■ : NOT STOCKED - Call for Delivery

(U.S.) 1.888.848.8449
(International) 001.714.428.3636
Visit us online at KyoceraPrecisionTools.com

INSERT GRADES **A**
TURNING INSERTS **B**
GEN/PCD INSERTS **C**
TURNING HOLDERS **D**
SMALL TOOLS **E**
BORING **F**
GROOVING **G**
CUT-OFF **H**
THREADING **J**
DRILLING **K**
SOLID TOOLS **L**
MILLING **M**
HSK TOOLING **N**
SPARE PARTS **P**
TECHNICAL **R**
INDEX **T**