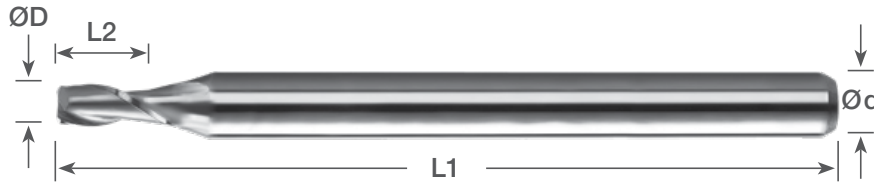


2 FLUTE

STUB LENGTH SQUARE END MILLS
GENERAL PURPOSE MACHINING

0.0040" - 0.0270" 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
1620-0040.006	●	1620-0040L006	●	-	-	0.0040	1/8	1 1/2	0.006
1620-0050.008	●	1620-0050L008	●	-	-	0.0050	1/8	1 1/2	0.008
1620-0060.009	●	1620-0060L009	●	-	-	0.0060	1/8	1 1/2	0.009
1620-0070.011	●	1620-0070L011	●	-	-	0.0070	1/8	1 1/2	0.011
1620-0080.012	●	1620-0080L012	●	-	-	0.0080	1/8	1 1/2	0.012
1620-0090.014	●	1620-0090L014	●	-	-	0.0090	1/8	1 1/2	0.014
1620-0100.015	●	1620-0100L015	●	1620-0100D015	■	0.0100	1/8	1 1/2	0.015
1620-0110.017	●	1620-0110L017	●	-	-	0.0110	1/8	1 1/2	0.017
1620-0120.018	●	1620-0120L018	●	-	-	0.0120	1/8	1 1/2	0.018
1620-0130.020	●	1620-0130L020	●	-	-	0.0130	1/8	1 1/2	0.020
1620-0140.021	●	1620-0140L021	●	-	-	0.0140	1/8	1 1/2	0.021
1620-0150.023	●	1620-0150L023	●	1620-0150D023	■	0.0150	1/8	1 1/2	0.023
1620-0156.023	●	1620-0156L023	●	1620-0156D023	■	0.0156 (1/64)	1/8	1 1/2	0.023
1620-0160.024	●	1620-0160L024	●	-	-	0.0160	1/8	1 1/2	0.024
1620-0170.026	●	1620-0170L026	●	-	-	0.0170	1/8	1 1/2	0.026
1620-0180.027	●	1620-0180L027	●	-	-	0.0180	1/8	1 1/2	0.027
1620-0190.029	●	1620-0190L029	●	-	-	0.0190	1/8	1 1/2	0.029
1620-0200.030	●	1620-0200L030	●	1620-0200D030	■	0.0200	1/8	1 1/2	0.030
1620-0210.032	●	1620-0210L032	●	-	-	0.0210	1/8	1 1/2	0.032
1620-0220.033	●	1620-0220L033	●	-	-	0.0220	1/8	1 1/2	0.033
1620-0230.035	●	1620-0230L035	●	-	-	0.0230	1/8	1 1/2	0.035
1620-0240.036	●	1620-0240L036	●	-	-	0.0240	1/8	1 1/2	0.036
1620-0250.038	●	1620-0250L038	●	1620-0250D038	■	0.0250	1/8	1 1/2	0.038
1620-0260.039	●	1620-0260L039	●	-	-	0.0260	1/8	1 1/2	0.039
1620-0270.041	●	1620-0270L041	●	-	-	0.0270	1/8	1 1/2	0.041

*DLC is Amorphous Diamond

SERIES 1620 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	Thermoset 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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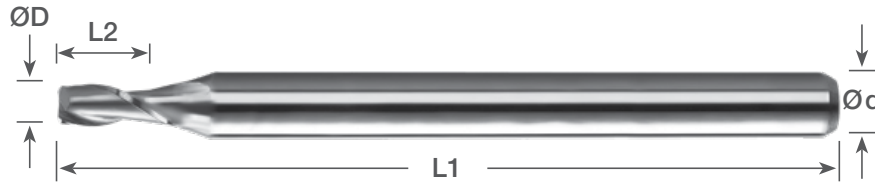
INSERT GRADES **A**
TURNING INSERTS **B**
GEN/PCD INSERTS **C**
TURNING HOLDERS **D**
SMALL TOOLS **E**
BORING **F**
GROOVING **G**
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2 FLUTE

STUB LENGTH SQUARE END MILLS
GENERAL PURPOSE MACHINING

0.0280" - 0.0750" 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
1620-0280.042	●	1620-0280L042	●	-	-	0.0280	1/8	1 1/2	0.042
1620-0290.044	●	1620-0290L044	●	-	-	0.0290	1/8	1 1/2	0.044
1620-0300.045	●	1620-0300L045	●	1620-0300D045	■	0.0300	1/8	1 1/2	0.045
1620-0310.047	●	1620-0310L047	●	-	-	0.0310	1/8	1 1/2	0.047
1620-0312.047	●	1620-0312L047	●	-	-	0.0312 (1/32)	1/8	1 1/2	0.047
1620-0320.048	●	1620-0320L048	●	-	-	0.0320	1/8	1 1/2	0.048
1620-0330.050	●	1620-0330L050	●	-	-	0.0330	1/8	1 1/2	0.050
1620-0340.051	●	1620-0340L051	●	-	-	0.0340	1/8	1 1/2	0.051
1620-0350.053	●	1620-0350L053	●	1620-0350D053	■	0.0350	1/8	1 1/2	0.053
1620-0360.054	●	1620-0360L054	●	-	-	0.0360	1/8	1 1/2	0.054
1620-0370.055	●	1620-0370L055	●	-	-	0.0370	1/8	1 1/2	0.055
1620-0380.057	●	1620-0380L057	●	-	-	0.0380	1/8	1 1/2	0.057
1620-0394.058	●	1620-0394L058	●	1620-0394D058	■	0.0394	1/8	1 1/2	0.058
1620-0400.060	●	1620-0400L060	●	1620-0400D060	■	0.0400	1/8	1 1/2	0.060
1620-0450.068	●	1620-0450L068	●	1620-0450D068	■	0.0450	1/8	1 1/2	0.068
1620-0469.071	●	1620-0469L071	●	1620-0469D071	■	0.0469 (3/64)	1/8	1 1/2	0.071
1620-0470.071	●	1620-0470L071	●	-	-	0.0470	1/8	1 1/2	0.071
1620-0500.075	●	1620-0500L075	●	1620-0500D075	■	0.0500	1/8	1 1/2	0.075
1620-0550.083	●	1620-0550L083	●	-	-	0.0550	1/8	1 1/2	0.083
1620-0550.129	●	1620-0550L129	●	1620-0550D129	■	0.0550	1/8	1 1/2	0.129
1620-0600.090	●	1620-0600L090	●	1620-0600D090	■	0.0600	1/8	1 1/2	0.090
1620-0625.094	●	1620-0625L094	●	1620-0625D094	■	0.0625 (1/16)	1/8	1 1/2	0.094
1620-0650.098	●	1620-0650L098	●	-	-	0.0650	1/8	1 1/2	0.098
1620-0700.105	●	1620-0700L105	●	1620-0700D105	■	0.0700	1/8	1 1/2	0.105
1620-0750.113	●	1620-0750L113	●	1620-0750D113	■	0.0750	1/8	1 1/2	0.113

*DLC is Amorphous Diamond

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

SERIES 1620 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

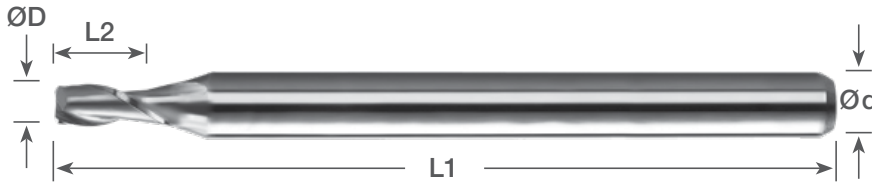
Symbol Descriptions Page L3

2 FLUTE

STUB LENGTH SQUARE END MILLS
GENERAL PURPOSE MACHINING

0.0781" - 0.2500" DIAMETER

Mirror Surface Finishes
Sub Micron Grain Carbide



STUB Length (Inch Sizes)

Uncoated		AITIN Coating		DLC* Coating		Dimensions (in)			
Part Number	Stock	Part Number	Stock	Part Number	Stock	ØD ^{+0.0000} _{-0.0010}	Ød	L1	L2
1620-0781.117	●	1620-0781L117	●	1620-0781D117	■	0.0781 (5/64)	1/8	1 1/2	0.117
1620-0800.120	●	1620-0800L120	●	1620-0800D120	■	0.0800	1/8	1 1/2	0.120
1620-0850.128	●	1620-0850L128	●	1620-0850D128	■	0.0850	1/8	1 1/2	0.128
1620-0900.135	●	1620-0900L135	●	1620-0900D135	■	0.0900	1/8	1 1/2	0.135
1620-0938.141	●	1620-0938L141	●	1620-0938D141	■	0.0938 (3/32)	1/8	1 1/2	0.141
1620-0950.143	●	1620-0950L143	●	1620-0950D143	■	0.0950	1/8	1 1/2	0.143
1620-1000.150	●	1620-1000L150	●	1620-1000D150	■	0.1000	1/8	1 1/2	0.150
1620-1050.158	●	1620-1050L158	●	1620-1050D158	■	0.1050	1/8	1 1/2	0.158
1620-1094.164	●	1620-1094L164	●	1620-1094D164	■	0.1094 (7/64)	1/8	1 1/2	0.164
1620-1100.165	●	1620-1100L165	●	1620-1100D165	■	0.1100	1/8	1 1/2	0.165
1620-1150.173	●	1620-1150L173	●	1620-1150D173	■	0.1150	1/8	1 1/2	0.173
1620-1181.178	●	1620-1181L178	●	1620-1181D178	■	0.1181	1/8	1 1/2	0.355
1620-1200.180	●	1620-1200L180	●	1620-1200D180	■	0.1200	1/8	1 1/2	0.180
1620-1250.188	●	1620-1250L188	●	1620-1250D188	■	0.1250 (1/8)	1/8	1 1/2	0.188
1620-1406.313	●	1620-1406L313	●	1620-1406D313	■	0.1406 (9/64)	3/16	2	0.313
1620-1563.313	●	1620-1563L313	●	1620-1563D313	■	0.1563 (5/32)	3/16	2	0.313
1620-1719.375	●	1620-1719L375	●	1620-1719D375	■	0.1719 (11/64)	3/16	2	0.375
1620-1875.312	●	1620-1875L312	●	1620-1875D312	■	0.1875 (3/16)	3/16	2	0.312
1620-1875.375	●	1620-1875L375	●	1620-1875D375	■	0.1875 (3/16)	3/16	2	0.375
1620-2031.438	●	1620-2031L438	●	1620-2031D438	■	0.2031 (13/64)	1/4	2 1/2	0.438
1620-2188.438	●	1620-2188L438	●	1620-2188D438	■	0.2188 (7/32)	1/4	2 1/2	0.438
1620-2344.500	●	1620-2344L500	●	1620-2344D500	■	0.2344 (15/64)	1/4	2 1/2	0.500
1620-2500.375	●	1620-2500L375	●	1620-2500D375	■	0.2500 (1/4)	1/4	2 1/2	0.375
1620-2500.500	●	1620-2500L500	●	1620-2500D500	■	0.2500 (1/4)	1/4	2 1/2	0.500

*DLC is Amorphous Diamond

SERIES 1620 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	Thermoset Plastic	High Density Plastic	Nickel / Cobalt	Titanium Alloy
AITIN	★	★	★	☆	☆	☆									☆	☆
DLC							☆	★	☆	☆	★	★	★			
Uncoated							☆	☆	★	★	☆	★	★	☆		☆

★ : Priority ☆ : Applicable Materials

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● : U.S. Stock Standard
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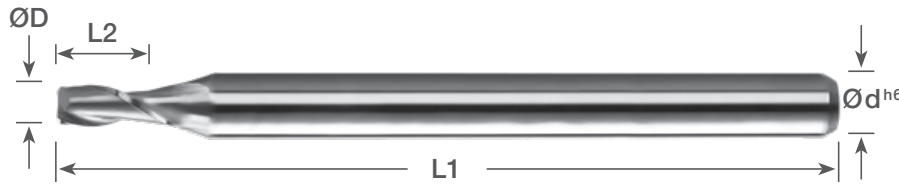
INSERT GRADES **A**
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SPARE PARTS **P**
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2 FLUTE

STUB LENGTH SQUARE END MILLS
GENERAL PURPOSE MACHINING

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
1620-0039.006	●	1620-0039L006	●	0.10	3.00	38.00	0.15
1620-0059.009	●	1620-0059L009	●	0.15	3.00	38.00	0.23
1620-0079.012	●	1620-0079L012	●	0.20	3.00	38.00	0.30
1620-0098.015	●	1620-0098L015	●	0.25	3.00	38.00	0.38
1620-0118.018	●	1620-0118L018	●	0.30	3.00	38.00	0.45
1620-0138.021	●	1620-0138L021	●	0.35	3.00	38.00	0.53
1620-0157.024	●	1620-0157L024	●	0.40	3.00	38.00	0.60
1620-0177.027	●	1620-0177L027	●	0.45	3.00	38.00	0.68
1620-0197.030	●	1620-0197L030	●	0.50	3.00	38.00	0.75
1620-0236.035	●	1620-0236L035	●	0.60	3.00	38.00	0.90
1620-0276.041	●	1620-0276L041	●	0.70	3.00	38.00	1.05
1620-0315.047	●	1620-0315L047	●	0.80	3.00	38.00	1.20
1620-0354.053	●	1620-0354L053	●	0.90	3.00	38.00	1.35
1620-0394.059	●	1620-0394L059	●	1.00	3.00	38.00	1.50
1620-0433.065	●	1620-0433L065	●	1.10	3.00	38.00	1.65
1620-0472.071	●	1620-0472L071	●	1.20	3.00	38.00	1.80
1620-0512.102	●	1620-0512L102	●	1.30	3.00	38.00	2.60
1620-0551.110	●	1620-0551L110	●	1.40	3.00	38.00	2.80
1620-0591.089	●	1620-0591L089	●	1.50	3.00	38.00	2.25
1620-0630.126	●	1620-0630L126	●	1.60	3.00	38.00	3.20
1620-0669.146	●	1620-0669L146	●	1.70	3.00	38.00	3.70
1620-0709.142	●	1620-0709L142	●	1.80	3.00	38.00	3.60
1620-0748.150	●	1620-0748L150	●	1.90	3.00	38.00	3.80
1620-0787.118	●	1620-0787L118	●	2.00	3.00	38.00	3.00
1620-0984.148	●	1620-0984L148	●	2.50	3.00	38.00	3.75
1620-1102.177	●	1620-1102L177	●	2.80	3.00	38.00	4.50
1620-1181.177	●	1620-1181L177	●	3.00	3.00	38.00	4.50
1620-1378.207	●	1620-1378L207	●	3.50	4.00	50.00	5.25
1620-1496.236	●	1620-1496L236	●	3.80	5.00	50.00	6.00
1620-1575.236	●	1620-1575L236	●	4.00	5.00	50.00	6.00
1620-1772.266	●	1620-1772L266	●	4.50	5.00	50.00	6.75
1620-1890.295	●	1620-1890L295	●	4.80	5.00	50.00	7.50
1620-1968.295	●	1620-1968L295	●	5.00	5.00	50.00	7.50
1620-2165.325	●	1620-2165L325	●	5.50	6.00	50.00	8.25
1620-2283.354	●	1620-2283L354	●	5.80	6.00	50.00	9.00
1620-2362.354	●	1620-2362L354	●	6.00	6.00	50.00	9.00

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

SERIES 1620 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 L222, L224

Symbol Descriptions Page L3