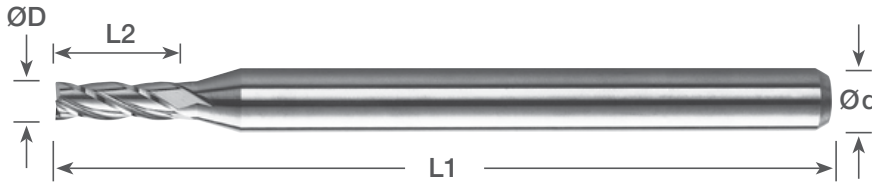


# 4 FLUTE

STANDARD LENGTH SQUARE END MILLS  
GENERAL PURPOSE MACHINING

0.0050" - 0.0340" 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 <sup>+0.0000</sup> <sub>-0.0010</sub>	Ød	L1	L2
1810-0050.015	●	1810-0050L015	●	-	-	0.0050	1/8	1 1/2	0.015
1810-0060.018	●	1810-0060L018	●	-	-	0.0060	1/8	1 1/2	0.018
1810-0070.021	●	1810-0070L021	●	-	-	0.0070	1/8	1 1/2	0.021
1810-0080.024	●	1810-0080L024	●	-	-	0.0080	1/8	1 1/2	0.024
1810-0090.027	●	1810-0090L027	●	-	-	0.0090	1/8	1 1/2	0.027
1810-0100.030	●	1810-0100L030	●	1810-0100D030	■	0.0100	1/8	1 1/2	0.030
1810-0110.033	●	1810-0110L033	●	-	-	0.0110	1/8	1 1/2	0.033
1810-0120.036	●	1810-0120L036	●	-	-	0.0120	1/8	1 1/2	0.036
1810-0130.039	●	1810-0130L039	●	-	-	0.0130	1/8	1 1/2	0.039
1810-0140.042	●	1810-0140L042	●	-	-	0.0140	1/8	1 1/2	0.042
1810-0150.045	●	1810-0150L045	●	1810-0150D045	■	0.0150	1/8	1 1/2	0.045
1810-0156.047	●	1810-0156L047	●	1810-0156D047	■	0.0156 (1/64)	1/8	1 1/2	0.047
1810-0160.048	●	1810-0160L048	●	-	-	0.0160	1/8	1 1/2	0.048
1810-0170.051	●	1810-0170L051	●	-	-	0.0170	1/8	1 1/2	0.051
1810-0180.054	●	1810-0180L054	●	-	-	0.0180	1/8	1 1/2	0.054
1810-0190.057	●	1810-0190L057	●	-	-	0.0190	1/8	1 1/2	0.057
1810-0200.060	●	1810-0200L060	●	1810-0200D060	■	0.0200	1/8	1 1/2	0.060
1810-0210.063	●	1810-0210L063	●	-	-	0.0210	1/8	1 1/2	0.063
1810-0220.066	●	1810-0220L066	●	-	-	0.0220	1/8	1 1/2	0.066
1810-0230.069	●	1810-0230L069	●	-	-	0.0230	1/8	1 1/2	0.069
1810-0240.072	●	1810-0240L072	●	-	-	0.0240	1/8	1 1/2	0.072
1810-0250.075	●	1810-0250L075	●	1810-0250D075	■	0.0250	1/8	1 1/2	0.075
1810-0260.078	●	1810-0260L078	●	-	-	0.0260	1/8	1 1/2	0.078
1810-0270.081	●	1810-0270L081	●	-	-	0.0270	1/8	1 1/2	0.081
1810-0280.084	●	1810-0280L084	●	-	-	0.0280	1/8	1 1/2	0.084
1810-0290.087	●	1810-0290L087	●	-	-	0.0290	1/8	1 1/2	0.087
1810-0300.090	●	1810-0300L090	●	1810-0300D090	■	0.0300	1/8	1 1/2	0.090
1810-0312.094	●	1810-0312L094	●	1810-0312D094	■	0.0312 (1/32)	1/8	1 1/2	0.094
1810-0320.096	●	1810-0320L096	●	-	-	0.0320	1/8	1 1/2	0.096
1810-0330.099	●	1810-0330L099	●	-	-	0.0330	1/8	1 1/2	0.099
1810-0340.102	●	1810-0340L102	●	-	-	0.0340	1/8	1 1/2	0.102

\*DLC is Amorphous Diamond

SERIES 1810 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  
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(International) 001.714.428.3636  
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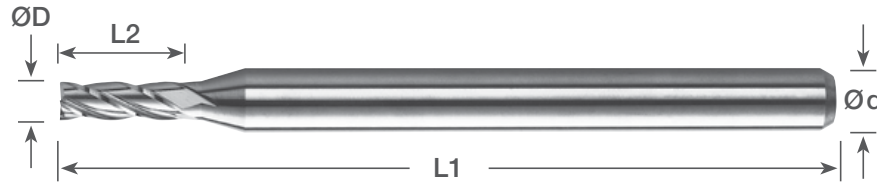
INSERT GRADES **A**  
TURNING INSERTS **B**  
GEN/PCD INSERTS **C**  
TURNING HOLDERS **D**  
SMALL TOOLS **E**  
BORING **F**  
GROOVING **G**  
CUT-OFF **H**  
THREADING **J**  
DRILLING **K**  
SOLID TOOLS **L**  
MILLING **M**  
HSK TOOLING **N**  
SPARE PARTS **P**  
TECHNICAL **R**  
INDEX **T**

# 4 FLUTE

STANDARD LENGTH SQUARE END MILLS  
GENERAL PURPOSE MACHINING

**0.0350" - 0.0781" 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 <sup>+0.0000</sup> <sub>-0.0010</sub>	Ød	L1	L2
1810-0350.105	●	1810-0350L105	●	1810-0350D105	■	0.0350	1/8	1 1/2	0.105
1810-0360.108	●	1810-0360L108	●	-	-	0.0360	1/8	1 1/2	0.108
1810-0370.111	●	1810-0370L111	●	-	-	0.0370	1/8	1 1/2	0.111
1810-0380.114	●	1810-0380L114	●	-	-	0.0380	1/8	1 1/2	0.114
1810-0394.117	●	1810-0394L117	●	1810-0394D117	■	0.0394	1/8	1 1/2	0.117
1810-0400.120	●	1810-0400L120	●	1810-0400D120	■	0.0400	1/8	1 1/2	0.120
1810-0410.123	●	1810-0410L123	●	-	-	0.0410	1/8	1 1/2	0.123
1810-0420.126	●	1810-0420L126	●	-	-	0.0420	1/8	1 1/2	0.126
1810-0430.129	●	1810-0430L129	●	-	-	0.0430	1/8	1 1/2	0.129
1810-0440.132	●	1810-0440L132	●	-	-	0.0440	1/8	1 1/2	0.132
1810-0450.135	●	1810-0450L135	●	1810-0450D135	■	0.0450	1/8	1 1/2	0.135
1810-0460.138	●	1810-0460L138	●	-	-	0.0460	1/8	1 1/2	0.138
1810-0469.141	●	1810-0469L141	●	1810-0469D141	■	0.0469 (3/64)	1/8	1 1/2	0.141
1810-0480.144	●	1810-0480L144	●	-	-	0.0480	1/8	1 1/2	0.144
1810-0490.147	●	1810-0490L147	●	-	-	0.0490	1/8	1 1/2	0.147
1810-0500.150	●	1810-0500L150	●	1810-0500D150	■	0.0500	1/8	1 1/2	0.150
1810-0510.153	●	1810-0510L153	●	-	-	0.0510	1/8	1 1/2	0.153
1810-0520.156	●	1810-0520L156	●	-	-	0.0520	1/8	1 1/2	0.156
1810-0530.159	●	1810-0530L159	●	-	-	0.0530	1/8	1 1/2	0.159
1810-0540.162	●	1810-0540L162	●	-	-	0.0540	1/8	1 1/2	0.162
1810-0550.165	●	1810-0550L165	●	1810-0550D165	■	0.0550	1/8	1 1/2	0.165
1810-0560.168	●	1810-0560L168	●	-	-	0.0560	1/8	1 1/2	0.168
1810-0570.171	●	1810-0570L171	●	-	-	0.0570	1/8	1 1/2	0.171
1810-0580.174	●	1810-0580L174	●	-	-	0.0580	1/8	1 1/2	0.174
1810-0590.177	●	1810-0590L177	●	-	-	0.0590	1/8	1 1/2	0.177
1810-0600.180	●	1810-0600L180	●	1810-0600D180	■	0.0600	1/8	1 1/2	0.180
1810-0625.188	●	1810-0625L188	●	1810-0625D188	■	0.0625 (1/16)	1/8	1 1/2	0.188
1810-0650.195	●	1810-0650L195	●	1810-0650D195	■	0.0650	1/8	1 1/2	0.195
1810-0700.210	●	1810-0700L210	●	1810-0700D210	■	0.0700	1/8	1 1/2	0.210
1810-0750.225	●	1810-0750L225	●	1810-0750D225	■	0.0750	1/8	1 1/2	0.225
1810-0781.234	●	1810-0781L234	●	1810-0781D234	■	0.0781 (5/64)	1/8	1 1/2	0.234

\*DLC is Amorphous Diamond

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

### SERIES 1810 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

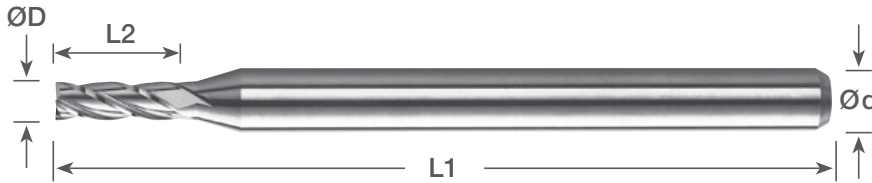
Symbol Descriptions Page L3

# 4 FLUTE

STANDARD LENGTH SQUARE END MILLS  
GENERAL PURPOSE MACHINING

0.0800" - 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 <sup>+0.0000 -0.0010</sup>	Ød	L1	L2
1810-0800.240	●	1810-0800L240	●	1810-0800D240	■	0.0800	1/8	1 1/2	0.240
1810-0850.255	●	1810-0850L255	●	1810-0850D255	■	0.0850	1/8	1 1/2	0.255
1810-0900.270	●	1810-0900L270	●	1810-0900D270	■	0.0900	1/8	1 1/2	0.270
1810-0938.281	●	1810-0938L281	●	1810-0938D281	■	0.0938 (3/32)	1/8	1 1/2	0.281
1810-0950.285	●	1810-0950L285	●	1810-0950D285	■	0.0950	1/8	1 1/2	0.285
1810-1000.300	●	1810-1000L300	●	1810-1000D300	■	0.1000	1/8	1 1/2	0.300
1810-1050.315	●	1810-1050L315	●	1810-1050D315	■	0.1050	1/8	1 1/2	0.315
1810-1094.328	●	1810-1094L328	●	1810-1094D328	■	0.1094 (7/64)	1/8	1 1/2	0.328
1810-1100.330	●	1810-1100L330	●	1810-1100D330	■	0.1100	1/8	1 1/2	0.330
1810-1150.345	●	1810-1150L345	●	1810-1150D345	■	0.1150	1/8	1 1/2	0.345
1810-1181.355	●	1810-1181L355	●	1810-1181D355	■	0.1181	1/8	1 1/2	0.355
1810-1200.360	●	1810-1200L360	●	1810-1200D360	■	0.1200	1/8	1 1/2	0.360
1810-1250.375	●	1810-1250L375	●	1810-1250D375	■	0.1250 (1/8)	1/8	1 1/2	0.375
1810-1406.500	●	1810-1406L500	●	1810-1406D500	■	0.1406 (9/64)	3/16	2	0.500
1810-1406.562	●	1810-1406L562	●	1810-1406D562	■	0.1406 (9/64)	3/16	2	0.562
1810-1562.562	●	1810-1562L562	●	1810-1562D562	■	0.1562 (5/32)	3/16	2	0.562
1810-1562.1000	●	1810-1562L1000	●	1810-1562D1000	■	0.1562 (5/32)	3/16	3	1.000
1810-1562.1875	●	1810-1562L1875	●	1810-1562D1875	■	0.1562 (5/32)	3/16	4	1.875
1810-1563.500	●	1810-1563L500	●	1810-1563D500	■	0.1563 (5/32)	3/16	2	0.500
1810-1719.563	●	1810-1719L563	●	1810-1719D563	■	0.1719 (11/64)	3/16	2	0.563
1810-1875.563	●	1810-1875L563	●	1810-1875D563	■	0.1875 (3/16)	3/16	2	0.563
1810-1875.625	●	1810-1875L625	●	1810-1875D625	■	0.1875 (3/16)	3/16	2	0.625
1810-1875.1125	●	1810-1875L1125	●	1810-1875D1125	■	0.1875 (3/16)	3/16	3	1.120
1810-1875.2250	●	1810-1875L2250	●	1810-1875D2250	■	0.1875 (3/16)	3/16	4	2.250
1810-2031.625	●	1810-2031L625	●	1810-2031D625	■	0.2031 (13/64)	1/4	2 1/2	0.625
1810-2188.625	●	1810-2188L625	●	1810-2188D625	■	0.2188 (7/32)	1/4	2 1/2	0.625
1810-2344.750	●	1810-2344L750	●	1810-2344D750	■	0.2344 (15/64)	1/4	2 1/2	0.750
1810-2500.750	●	1810-2500L750	●	1810-2500D750	■	0.2500 (1/4)	1/4	2 1/2	0.750
1810-2500.1500	●	1810-2500L1500	●	1810-2500D1500	■	0.2500 (1/4)	1/4	4	1.500
1810-2500.3000	●	1810-2500L3000	●	1810-2500D3000	■	0.2500 (1/4)	1/4	6	3.000

\*DLC is Amorphous Diamond

SERIES 1810 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, L223

Symbol Descriptions Page L3

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

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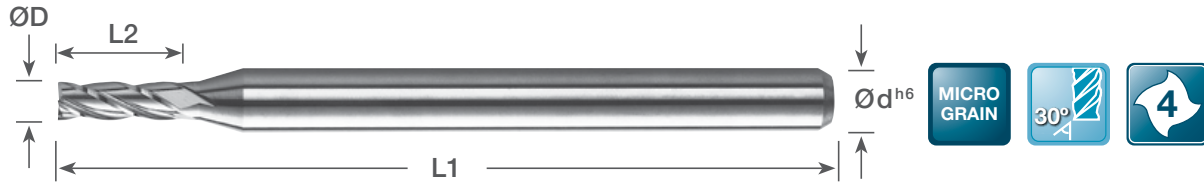
INSERT GRADES **A**  
TURNING INSERTS **B**  
GEN/PCD INSERTS **C**  
TURNING HOLDERS **D**  
SMALL TOOLS **E**  
BORING **F**  
GROOVING **G**  
CUT-OFF **H**  
THREADING **J**  
DRILLING **K**  
SOLID TOOLS **L**  
MILLING **M**  
HSK TOOLING **N**  
SPARE PARTS **P**  
TECHNICAL **R**  
INDEX **T**

# 4 FLUTE

STANDARD LENGTH SQUARE END MILLS  
GENERAL PURPOSE MACHINING

0.10mm - 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 <sup>+0.00mm -0.02mm</sup>	Ød <sup>h6</sup>	L1	L2
1810-0039.012	●	1810-0039L012	●	0.10	3.00	38.00	0.30
1810-0059.018	●	1810-0059L018	●	0.15	3.00	38.00	0.45
1810-0079.024	●	1810-0079L024	●	0.20	3.00	38.00	0.60
1810-0098.029	●	1810-0098L029	●	0.25	3.00	38.00	0.75
1810-0118.035	●	1810-0118L035	●	0.30	3.00	38.00	0.90
1810-0138.041	●	1810-0138L041	●	0.35	3.00	38.00	1.05
1810-0157.047	●	1810-0157L047	●	0.40	3.00	38.00	1.20
1810-0177.053	●	1810-0177L053	●	0.45	3.00	38.00	1.35
1810-0197.059	●	1810-0197L059	●	0.50	3.00	38.00	1.50
1810-0236.071	●	1810-0236L071	●	0.60	3.00	38.00	1.80
1810-0276.083	●	1810-0276L083	●	0.70	3.00	38.00	2.10
1810-0315.095	●	1810-0315L095	●	0.80	3.00	38.00	2.40
1810-0354.106	●	1810-0354L106	●	0.90	3.00	38.00	2.70
1810-0394.118	●	1810-0394L118	●	1.00	3.00	38.00	3.00
1810-0433.130	●	1810-0433L130	●	1.10	3.00	38.00	3.30
1810-0472.142	●	1810-0472L142	●	1.20	3.00	38.00	3.60
1810-0512.154	●	1810-0512L154	●	1.30	3.00	38.00	3.90
1810-0551.165	●	1810-0551L165	●	1.40	3.00	38.00	4.20
1810-0591.177	●	1810-0591L177	●	1.50	3.00	38.00	4.50
1810-0630.189	●	1810-0630L189	●	1.60	3.00	38.00	4.80
1810-0669.200	●	1810-0669L200	●	1.70	3.00	38.00	5.10
1810-0709.213	●	1810-0709L213	●	1.80	3.00	38.00	5.40
1810-0748.224	●	1810-0748L224	●	1.90	3.00	38.00	5.70
1810-0787.236	●	1810-0787L236	●	2.00	3.00	38.00	6.00
1810-0984.295	●	1810-0984L295	●	2.50	3.00	38.00	7.50
1810-1102.354	●	1810-1102L354	●	2.80	3.00	38.00	9.00
1810-1181.354	●	1810-1181L354	●	3.00	3.00	38.00	9.00
1810-1378.413	●	1810-1378L413	●	3.50	4.00	50.00	10.50
1810-1496.473	●	1810-1496L473	●	3.80	5.00	50.00	12.00
1810-1575.473	●	1810-1575L473	●	4.00	5.00	50.00	12.00
1810-1772.532	●	1810-1772L532	●	4.50	5.00	50.00	13.50
1810-1890.590	●	1810-1890L590	●	4.80	5.00	50.00	15.00
1810-1968.590	●	1810-1968L590	●	5.00	5.00	50.00	15.00
1810-2165.650	●	1810-2165L650	●	5.50	6.00	50.00	16.50
1810-2283.709	●	1810-2283L709	●	5.80	6.00	50.00	18.00
1810-2362.709	●	1810-2362L709	●	6.00	6.00	50.00	18.00

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

SERIES 1810 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