

General Purpose Cutting Tools Featuring a **High-Performance Coating**

CCT-1 COATING

CCT-1 Coating was designed to give you the cutting edge you need when machining high nickel alloys, stainless steels, and superalloys.



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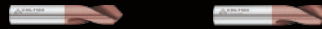
Double End Engravers, Spot Drills, Chamfer Mills and Combined Drill & Countersinks

Double End Engraver Solid Carbide CCT-1 Coated



Cutting Diameter	LOC	OAL	Shank	Tip Radius	EDP
1/8"	1/8"	2"	1/8"	0.021	61827

Spot Drill Carbide CCT-1 Coated



Dia	LOC	OAL	Shank	90°	120°
1/8"	5/8"	2-1/2"	1/8"	61800	61806
3/16"	3/4"	2-1/2"	3/16"	61801	61807
1/4"	1"	2-1/2"	1/4"	61802	61808
5/16"	1"	2-1/2"	1/3"	61803	61809
3/8"	1-1/4"	3"	3/8"	61804	61810
1/2"	1-1/4"	3"	1/2"	61805	61811



Chamfer Mill Solid Carbide CCT-1 Coated



Cutting Dia	LOC	OAL	Shank	4 Flute 90°
1/8"	1/16"	1-1/2"	1/8"	61816
3/16"	3/32"	2"	3/16"	61817
1/4"	1/8"	2-1/2"	1/4"	61818
3/8"	3/16"	2-1/2"	3/8"	61819
1/2"	1/4"	3"	1/2"	61820

Combined Drill & Countersink Carbide



Pilot Dia.	Body Dia	OAL	Trade #	2 Flute 60°
1/32"	1/4"	1-1/2"	0	61821
3/64"	1/8"	1-1/2"	1	61822
5/64"	3/16"	2"	2	61823
7/64"	1/4"	2"	3	61824
1/8"	5/16"	2-1/8"	4	61825
3/16"	7/16"	2-3/4"	5	61826

- **Engraving bits** are used to engrave letters, numbers or anything else into parts. The most common is 1/8" diameter with a variety of angles and come to sharp point. An engraving bit needs to be rotating to work correctly.
- A **spot drill** is most commonly used to create starting location for a drill. By Using a spotting drill you give the main drill a starting location to prevent the main drill from drifting. Another common use is to use a spotting drill to chamfer for a screw head to sit flush. The spot drill diameter should be the same diameter as the main drill, with a point angle equal to or greater than the main drill.
- **Chamfer mills** are commonly used to Chamfer the edges of part. Often times in machining leaves a sharp edges. Chamfer mills are not designed to plunge but rather be ran around the perimeter of a part or specific part features. Available In both straight flute and high performance helical flute options with straight flute being much more common.

General-Purpose End Mills Featuring a High-Performance Coating



- Increased productivity at a great value
- Only general-purpose endmill with a premium coating on the market
- Ideal for roughing and finishing in difficult to machine applications without the associated cost of high-performance tooling

CCT-1 Coating Offers:

- A proprietary blend designed to give you better performance in hard to cut applications
- Added lubricity and high-temperature resistance resulting in faster speeds/feeds and increased tool life
- Excels in high heat and heavy stress applications
- High hardness, elasticity, oxidation, and low friction. Excellent for machining **Stainless Steel, Nickel-based alloys, and superalloys**



Double End



Cutting Diameter	LOC	OAL	Shank	2 Flute Ball Uncoated	2 Flute Square Uncoated	3 Flute Square Uncoated	4 Flute Ball CCT-1 Coated	4 Flute Square CCT-1 Coated
1/8"	1/4"	1-1/2"	1/8"	*****	*****	*****	*****	61812
1/4"	1/2"	2-1/2"	1/4"	*****	*****	*****	*****	61813
3/8"	5/8"	2-1/2"	3/8"	*****	*****	*****	*****	61814
1/2"	5/8"	3"	1/2"	*****	*****	*****	*****	61815

Stub



Cutting Diameter	LOC	OAL	Shank	2 Flute Ball Uncoated	2 Flute Square Uncoated	3 Flute Square Uncoated	4 Flute Ball CCT-1 Coated	4 Flute Square CCT-1 Coated
1/32"	1/16"	1-1/2"	1/8"	61540	61165	*****	61547	61171
3/64"	1/8"	1-1/2"	1/8"	*****	*****	*****	*****	61184
1/16"	1/8"	1-1/2"	1/8"	61541	61166	*****	61548	61172
3/32"	3/16"	1-1/2"	1/8"	61542	61167	*****	61549	61173
1/8"	1/4"	1-1/2"	1/8"	61520	61129	*****	61501	61104
5/32"	3/8"	2"	3/16"	61543	61168	*****	61550	61174
3/16"	3/8"	2"	3/16"	61544	61133	*****	61551	61108
1/4"	1/2"	2"	1/4"	61525	61136	*****	61506	61111
5/16"	1/2"	2-1/2"	5/16"	61528	61139	*****	61552	61114
3/8"	5/8"	2-1/2"	3/8"	61531	61142	*****	61511	61117
7/16"	3/4"	2-3/4"	7/16"	61534	61145	*****	*****	61120
1/2"	3/4"	3"	1/2"	61537	61148	*****	61516	61123
5/8"	1"	2"	5/8"	61545	61169	*****	61554	61175
3/4"	1"	4"	3/4"	61546	61170	*****	61555	61176

Standard


Cutting Diameter	LOC	OAL	Shank	2 Flute Ball Uncoated	2 Flute Square Uncoated	3 Flute Square Uncoated	4 Flute Ball CCT-1 Coated	4 Flute Square CCT-1 Coated
1/32"	3/32"	1-1/2"	1/8"	61556	61126	61179	61561	61101
1/16"	1/4"	1-1/2"	1/8"	61519	61127	61151	61500	61102
5/64"	1/4"	1-1/2"	1/8"	*****	*****	*****	61567	61185
3/32"	3/8"	1-1/2"	1/8"	61557	61128	61180	61563	61103
7/64"	1/2"	1-1/2"	1/8"	*****	*****	*****	61568	61186
1/8"	1/2"	1-1/2"	1/8"	61521	61130	61152	61502	61105
9/64"	9/16"	2"	3/16"	*****	*****	*****	*****	61188
5/32"	9/16"	2"	5/32"	61558	61132	61181	61564	61107
11/64"	9/16"	2"	3/16"	*****	*****	*****	*****	61189
3/16"	5/8"	2"	3/16"	61523	61134	61154	61504	61109
13/64"	5/8"	2-1/2"	1/4"	*****	*****	*****	*****	61191
7/32"	5/8"	2-1/2"	1/4"	*****	*****	*****	61571	61192
15/64"	3/4"	2-1/2"	1/4"	*****	*****	*****	*****	61193
1/4"	3/4"	2-1/2"	1/4"	61526	61137	61156	61507	61112
17/64"	7/8"	2-1/2"	5/16"	*****	*****	*****	*****	61196
9/32"	7/8"	2-1/2"	5/16"	*****	*****	*****	61574	61197
19/64"	7/8"	2-1/2"	5/16"	*****	*****	*****	*****	61198
5/16"	7/8"	2-1/2"	5/16"	61529	61140	61158	61509	61115
21/64"	7/8"	2-1/2"	3/8"	*****	*****	*****	*****	61199
11/32"	7/8"	2-1/2"	3/8"	*****	*****	*****	*****	61200
23/64"	1"	2-1/2"	3/8"	*****	*****	*****	*****	61201
3/8"	1"	2-1/2"	3/8"	61532	61143	61160	61512	61118
7/16"	1"	2-3/4"	7/16"	61535	61146	61162	61514	61121
1/2"	1"	3"	1/2"	61538	61149	61164	61517	61124
5/8"	1-1/2"	3-1/2"	5/8"	61559	61177	*****	61565	61182
3/4"	1-1/2"	4"	3/4"	61560	61178	*****	61566	61183
1"	1-1/2"	4"	1"	*****	*****	*****	61581	61212

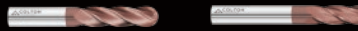
Long


Cutting Diameter	LOC	OAL	Shank	2 Flute Ball Uncoated	2 Flute Square Uncoated	3 Flute Square Uncoated	4 Flute Ball CCT-1 Coated	4 Flute Square CCT-1 Coated
1/8"	3/4"	3"	1/8"	61522	61131	61153	61503	61106
3/16"	1-1/4"	3"	3/16"	61524	61135	61155	61505	61110
1/4"	1"	4"	1/4"	*****	*****	*****	61572	61194
1/4"	1-1/8"	3"	1/4"	61527	61138	*****	61508	61113
1/4"	1-1/2"	4"	1/4"	*****	*****	61157	*****	*****
5/16"	1-1/8"	3"	5/16"	61530	61141	*****	61510	61116
5/16"	1-5/8"	4"	5/16"	*****	*****	61159	*****	*****
3/8"	1"	4"	3/8"	*****	*****	*****	61575	61202
3/8"	1-1/8"	3"	3/8"	61533	61144	*****	61513	61119
3/8"	2"	4"	3/8"	*****	*****	61161	*****	*****
7/16"	2"	4"	7/16"	61536	61147	61163	61515	61122
1/2"	1"	4"	1/2"	*****	*****	*****	61576	61204
1/2"	1-1/4"	3"	1/2"	*****	*****	*****	*****	61205
1/2"	2"	4"	1/2"	61539	61150	61100	61518	61125
5/8"	2-1/2"	5"	5/8"	*****	*****	*****	*****	61208
3/4"	1-1/2"	6"	3/4"	*****	*****	*****	*****	61209
3/4"	2-1/2"	5"	3/4"	*****	*****	*****	61579	61210
1"	2"	4-1/2"	1"	*****	*****	*****	*****	61213
1"	2-1/2"	5"	1"	*****	*****	*****	*****	61214

New!

XL and Radius General-Purpose End Mills

XL



Cutting Diameter	LOC	OAL	Shank	4 Flute Ball CCT-1 Coated	4 Flute Square CCT-1 Coated
1/8"	1"	3"	1/8"	61569	61187
3/16"	1"	4"	3/16"	61570	61190
1/4"	1-1/2"	4"	1/4"	61573	61195
3/8"	1-1/2"	6"	3/8"	*****	61203
1/2"	1-1/2"	6"	1/2"	61577	61206
1/2"	3"	6"	1/2"	61578	61207
3/4"	3"	6"	3/4"	61580	61211
1"	3"	6"	1"	*****	61215

Radius Stub



Cutting Diameter	Radius	LOC	OAL	Shank	4 Flute CCT-1 Coated
1/8"	0.010"	1/4"	1-1/2"	1/8"	63001
1/8"	0.015"	1/4"	1-1/2"	1/8"	63003
1/8"	0.030"	1/4"	1-1/2"	1/8"	63006
3/16"	0.010"	3/8"	2"	3/16"	63008
3/16"	0.015"	3/8"	2"	3/16"	63010
3/16"	0.030"	3/8"	2"	3/16"	63013
1/4"	0.010"	1/2"	2"	1/4"	63015
1/4"	0.015"	1/2"	2"	1/4"	63016
1/4"	0.030"	1/2"	2"	1/4"	63019
3/8"	0.010"	5/8"	2"	3/8"	63023
3/8"	0.015"	5/8"	2"	3/8"	63025
3/8"	0.030"	5/8"	2"	3/8"	63028
3/8"	0.060"	5/8"	2"	3/8"	63031
3/8"	0.090"	5/8"	2"	3/8"	63033
1/2"	0.015"	3/4"	2-1/2"	1/2"	63036
1/2"	0.030"	3/4"	2-1/2"	1/2"	63039
1/2"	0.060"	3/4"	2-1/2"	1/2"	63042
1/2"	0.090"	3/4"	2-1/2"	1/2"	63044
1/2"	0.120"	3/4"	2-1/2"	1/2"	63046



Radius Standard



Cutting Diameter	Radius	LOC	OAL	Shank	4 Flute CCT-1 Coated
1/8"	0.005"	1/2"	1-1/2"	1/8"	63000
1/8"	0.010"	1/2"	1-1/2"	1/8"	63002
1/8"	0.015"	1/2"	1-1/2"	1/8"	63004
1/8"	0.020"	1/2"	1-1/2"	1/8"	63005
1/8"	0.030"	1/2"	1-1/2"	1/8"	63007
3/16"	0.010"	5/8"	2"	3/16"	63009
3/16"	0.015"	5/8"	2"	3/16"	63011
3/16"	0.020"	5/8"	2"	3/16"	63012
3/16"	0.030"	5/8"	2"	3/16"	63014
1/4"	0.015"	3/4"	2-1/2"	1/4"	63017
1/4"	0.020"	3/4"	2-1/2"	1/4"	63018
1/4"	0.030"	3/4"	2-1/2"	1/4"	63020
1/4"	0.045"	3/4"	2-1/2"	1/4"	63021
1/4"	0.060"	3/4"	2-1/2"	1/4"	63022
3/8"	0.010"	1"	2-1/2"	3/8"	63024
3/8"	0.015"	1"	2-1/2"	3/8"	63026
3/8"	0.020"	1"	2-1/2"	3/8"	63027
3/8"	0.030"	1"	2-1/2"	3/8"	63029
3/8"	0.045"	1"	2-1/2"	3/8"	63030
3/8"	0.060"	1"	2-1/2"	3/8"	63032
3/8"	0.090"	1"	2-1/2"	3/8"	63034
3/8"	0.120"	1"	2-1/2"	3/8"	63035
1/2"	0.015"	1"	3"	1/2"	63037
1/2"	0.020"	1"	3"	1/2"	63038
1/2"	0.030"	1"	3"	1/2"	63040
1/2"	0.045"	1"	3"	1/2"	63041
1/2"	0.060"	1"	3"	1/2"	63043
1/2"	0.090"	1"	3"	1/2"	63045
1/2"	0.125"	1"	3"	1/2"	63047
3/4"	0.015"	1-1/2"	4"	3/4"	63048
3/4"	0.030"	1-1/2"	4"	3/4"	63049
3/4"	0.060"	1-1/2"	4"	3/4"	63050
3/4"	0.090"	1-1/2"	4"	3/4"	63051
3/4"	0.125"	1-1/2"	4"	3/4"	63052
1"	0.030"	1-1/2"	4"	1"	63053
1"	0.060"	1-1/2"	4"	1"	63054
1"	0.090"	1-1/2"	4"	1"	63055
1"	0.125"	1-1/2"	4"	1"	63056



Radius end mill tooling breaks up a sharp corner with a strong, rounded form. This helps to prevent wear and chipping while allowing for increased feed rates, greater productivity and longer tool life.

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