

GENERAL PURPOSE

Solid Carbide End Mills For Ferrous And Non-Ferrous Materials



INTRO

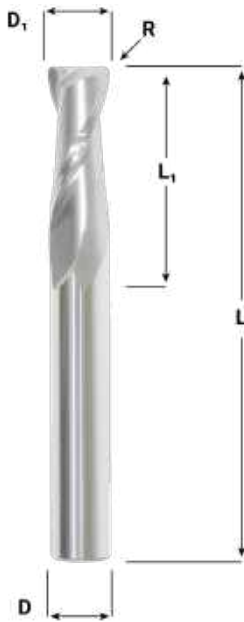
MILLING

SPECIALTY

HOLEMAKING

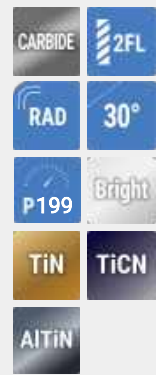
THREADING

INSERTS



2-Flute Corner Radius End Mills

- Universal application
- Sub-micron grade carbide substrate for wear resistance
- Multiple coating options
- Diameter Tol.: +0/-0.002"
- Shank Tol.: +0/-0.0005"



STEEL			STAINLESS		CAST IRON		NON-FERROUS		HSSA		HARDENED STEEL	
P1	P2	P3	M1	M2	K1	K2	N1	N2	S1	S2	H1	H2
○	○	○			○	○	○	○			○	

● Best ○ Good

Series 204 2FL | Multi Length | Corner Radius

Dia. (D ₁)	LOC (L ₁)	OAL (L)	Shank (D)	Radius (R)	Bright	TiN	TiCN	AlTiN
1/8	1/2	1-1/2	1/8	0.010	204-602300	204-602301	204-602302	204-602303
1/8	1/2	1-1/2	1/8	0.015	204-602306	204-602307	204-602308	204-602309
1/8	1/2	1-1/2	1/8	0.020	204-602312	204-602313	204-602314	204-602315
1/8	1/2	1-1/2	1/8	0.030	204-602318	204-602319	204-602320	204-602321
3/16	5/8	2	3/16	0.010	204-602424	204-602425	204-602426	204-602427
3/16	5/8	2	3/16	0.015	204-602430	204-602431	204-602432	204-602433
3/16	5/8	2	3/16	0.020	204-602436	204-602437	204-602438	204-602439
3/16	5/8	2	3/16	0.030	204-602442	204-602443	204-602444	204-602445
3/16	5/8	2	3/16	0.045	204-602448	204-602449	204-602450	204-602451
3/16	5/8	2	3/16	0.060	204-602452	-	-	-
1/4	3/4	2-1/2	1/4	0.015	204-602551	204-602552	204-602553	204-602554
1/4	3/4	2-1/2	1/4	0.020	204-602557	204-602558	204-602559	204-602560
1/4	3/4	2-1/2	1/4	0.025	204-602563	204-602564	204-602565	204-602566
1/4	3/4	2-1/2	1/4	0.030	204-602569	204-602570	204-602571	204-602572
1/4	3/4	2-1/2	1/4	0.045	204-602575	204-602576	204-602577	204-602578
1/4	3/4	2-1/2	1/4	0.060	204-602581	204-602582	204-602583	204-602584
5/16	13/16	2-1/2	5/16	0.015	204-602684	204-602685	204-602686	204-602687
5/16	13/16	2-1/2	5/16	0.020	204-602690	204-602691	204-602692	204-602693
5/16	13/16	2-1/2	5/16	0.025	204-602696	204-602697	204-602698	204-602699
5/16	13/16	2-1/2	5/16	0.030	204-602702	204-602703	204-602704	204-602705
5/16	13/16	2-1/2	5/16	0.045	204-602708	204-602709	204-602710	204-602711
5/16	13/16	2-1/2	5/16	0.060	204-602714	204-602715	204-602716	204-602717
3/8	1	2-1/2	3/8	0.015	204-602820	204-602821	204-602822	204-602823
3/8	1	2-1/2	3/8	0.020	204-602826	204-602827	204-602828	204-602829
3/8	1	2-1/2	3/8	0.025	204-602832	204-602833	204-602834	204-602835
3/8	1	2-1/2	3/8	0.030	204-602838	204-602839	204-602840	204-602841
3/8	1	2-1/2	3/8	0.045	204-602844	204-602845	204-602846	204-602847
3/8	1	2-1/2	3/8	0.060	204-602850	204-602851	204-602852	204-602853
3/8	1	2-1/2	3/8	0.090	204-602856	204-602857	204-602858	204-602859
3/8	1	2-1/2	3/8	0.125	204-999375	-	-	-
7/16	1	2-3/4	7/16	0.015	204-602961	204-602962	204-602963	204-602964
7/16	1	2-3/4	7/16	0.020	204-602967	204-602968	204-602969	204-602970
7/16	1	2-3/4	7/16	0.025	204-602974	204-602975	204-602976	204-602977
7/16	1	2-3/4	7/16	0.030	204-602980	204-602981	204-602982	204-602983
7/16	1	2-3/4	7/16	0.045	204-602986	204-602987	204-602988	204-602989
7/16	1	2-3/4	7/16	0.060	204-602992	204-602993	204-602994	204-602995
7/16	1	2-3/4	7/16	0.090	204-602998	204-602999	204-603000	204-603001
1/2	1	3	1/2	0.015	204-603003	204-603004	204-603005	204-603006
1/2	1	3	1/2	0.020	204-603009	204-603010	204-603011	204-603012
1/2	1	3	1/2	0.025	204-603015	204-603016	204-603017	204-603018
1/2	1	3	1/2	0.030	204-603021	204-603022	204-603023	204-603024
1/2	1	3	1/2	0.045	204-603027	204-603028	204-603029	204-603030
1/2	1	3	1/2	0.060	204-603033	204-603034	204-603035	204-603036
1/2	1	3	1/2	0.090	204-603039	204-603040	204-603041	204-603042
1/2	1	3	1/2	0.125	204-603045	204-603046	204-603047	204-603048

*bold numbers are EDPs for ordering

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Dia. (D ₁)	LOC(L ₁)	OAL(L)	Shank(D)	Radius(R)	Bright	TiN	TiCN	AlTiN
5/8	1-1/4	3-1/2	5/8	0.015	204-603150	204-603151	204-603152	204-603153
5/8	1-1/4	3-1/2	5/8	0.020	204-603156	204-603157	204-603158	204-603159
5/8	1-1/4	3-1/2	5/8	0.025	204-603162	204-603163	204-603164	204-603165
5/8	1-1/4	3-1/2	5/8	0.030	204-603168	204-603169	204-603170	204-603171
5/8	1-1/4	3-1/2	5/8	0.045	204-603174	204-603175	204-603176	204-603177
5/8	1-1/4	3-1/2	5/8	0.060	204-603180	204-603181	204-603182	204-603183
5/8	1-1/4	3-1/2	5/8	0.090	204-603186	204-603187	204-603188	204-603189
5/8	1-1/4	3-1/2	5/8	0.125	204-603192	204-603193	204-603194	204-603195
5/8	1-1/4	3-1/2	5/8	0.250	204-603196	-	-	-
3/4	1-1/2	4	3/4	0.015	204-603297	204-603298	204-603299	204-603300
3/4	1-1/2	4	3/4	0.020	204-603303	204-603304	204-603305	204-603306
3/4	1-1/2	4	3/4	0.025	204-603309	204-603310	204-603311	204-603312
3/4	1-1/2	4	3/4	0.030	204-603315	204-603316	204-603317	204-603318
3/4	1-1/2	4	3/4	0.045	204-603321	204-603322	204-603323	204-603324
3/4	1-1/2	4	3/4	0.060	204-603327	204-603328	204-603329	204-603330
3/4	1-1/2	4	3/4	0.090	204-603333	204-603334	204-603335	204-603336
3/4	1-1/2	4	3/4	0.125	204-603339	204-603340	204-603341	204-603342
3/4	1-1/2	4	3/4	0.190	204-603345	204-603346	204-603347	204-603348
3/4	1-1/2	4	3/4	0.250	204-603349	-	-	-
1	1-1/2	4	1	0.015	204-603450	204-603451	204-603452	204-603453
1	1-1/2	4	1	0.020	204-603456	204-603457	204-603458	204-603459
1	1-1/2	4	1	0.025	204-603462	204-603463	204-603464	204-603465
1	1-1/2	4	1	0.030	204-603468	204-603469	204-603470	204-603471
1	1-1/2	4	1	0.045	204-603474	204-603475	204-603476	204-603477
1	1-1/2	4	1	0.060	204-603480	204-603481	204-603482	204-603483
1	1-1/2	4	1	0.090	204-603486	204-603487	204-603488	204-603489
1	1-1/2	4	1	0.125	204-603492	204-603493	204-603494	204-603495
1	1-1/2	4	1	0.190	204-603498	204-603499	204-603500	204-603501
1	1-1/2	4	1	0.250	204-603504	204-603505	204-603506	204-603507

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Popular Custom Milling Options

- Proprietary GWS tool coatings
- Longer lengths
- Enhanced geometry
- Special shank modifications like **SAFE-LOCK®**

**CUSTOM
COMES
STANDARD**

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