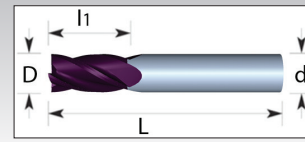


P	●	Steel
M	◐	Stainless Steel
K	●	Cast Iron
N	○	Non-Ferrous
S	○	High Temp. Alloys
H		Hardened Steel

● BETTER ◐ OK ○ NOT OPTIMAL

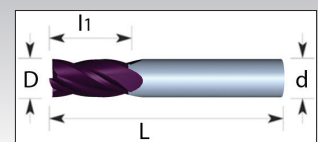
- Square & Corner Radius End
- 4 Flute TiALN Coated
- Variable Pitch, Reduces Chatter
- Round & Weldon Shanks
- Center Cutting
- Fractional Sizes
- High Performance
- Micrograin Carbide
- Unique Honing Process
- Plunging, Pocketing
- Slotting, Ramping
- Profiling



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Square & Corner Radius End - Fractional

Cutter D	Shank d	LOC l1	Overall L	End Face	TiALN	
					4 Flute Round Shank	4 Flute Weldon Shank
3/16	3/16	3/8	2	SQ	881147	--
		3/8	2	.015"R	881148	--
		5/8	2	SQ	881004	--
		5/8	2	.015"R	881005	--
		3/4	2-1/2	SQ	881053	--
		3/4	2-1/2	.015"R	881054	--
		1-1/8	3	SQ	881132	--
1/4	1/4	3/8	2	SQ	881149	--
		3/8	2	.015"R	881150	--
		3/4	2-1/2	SQ	881006	881030
		3/4	2-1/2	.020"R	881007	881031
		1-1/8	3	SQ	881055	881078
		1-1/8	3	.020"R	881056	881079
		1-1/2	4	SQ	881133	--
5/16	5/16	3/8	2	SQ	881151	--
		3/8	2	.020"R	881152	--
		13/16	2-1/2	SQ	881008	881032
		13/16	2-1/2	.020"R	881009	881033
		1-1/8	3	SQ	881057	881080
		1-1/8	3	.020"R	881058	881081
		1-5/8	4	SQ	881134	--
3/8	3/8	1/2	2	SQ	881153	--
		1/2	2	.020"R	881154	--
		7/8	2-1/2	SQ	881010	881034
		7/8	2-1/2	.020"R	881011	881035
		1-1/8	3	SQ	881059	881082
		1-1/8	3	.020"R	881060	881083
		1-3/4	4	SQ	881135	--
7/16	7/16	1	2-3/4	SQ	881013	881036
		2	4	SQ	881061	881084
1/2	1/2	5/8	2-1/2	SQ	881155	881161
		5/8	2-1/2	.030"R	881156	881162
		1-1/4	3	SQ	881014	881037
		1-1/4	3	.015"R	881015	881038
		1-1/4	3	.030"R	881016	881039
		1-1/4	3	.060"R	881017	881040

Square & Corner Radius End - Fractional

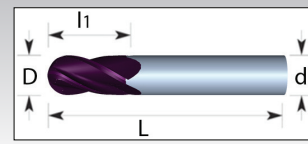
Cutter D	Shank d	LOC l1	Overall L	End Face	TiALN	
					4 Flute Round Shank	4 Flute Weldon Shank
1/2	1/2	2	4	SQ	881062	881085
		2	4	.015"R	881063	881086
		2	4	.030"R	881064	881087
		2	4	.060"R	881065	881088
		3	6	SQ	881136	--
		3/4	3	SQ	881157	881163
5/8	5/8	3/4	3	.030"R	881158	881164
		1-1/4	3-1/2	SQ	881018	881041
		1-1/4	3-1/2	.030"R	881019	881042
		1-1/4	3-1/2	.060"R	881020	881043
		1-1/4	3-1/2	.125"R	881021	881044
		2-1/4	5	SQ	881066	881089
		2-1/4	5	.030"R	881067	881090
		2-1/4	5	.060"R	881068	881091
		2-1/4	5	.125"R	881069	881092
		3	6	SQ	881137	--
3/4	3/4	1	3	SQ	881159	881165
		1	3	.030"R	881160	881166
		1-1/2	4	SQ	881022	881045
		1-1/2	4	.030"R	881023	881046
		1-1/2	4	.060"R	881024	881047
		1-1/2	4	.125"R	881025	881048
		2-1/4	5	SQ	881070	881093
		2-1/4	5	.030"R	881071	881094
		2-1/4	5	.060"R	881072	881095
		2-1/4	5	.125"R	881073	881096
3	6	SQ	881138	--		
1	1	1-1/2	4	SQ	881000	881026
		1-1/2	4	.030"R	881001	881027
		1-1/2	4	.060"R	881002	881028
		1-1/2	4	.125"R	881003	881029
		2-1/4	5	SQ	881049	881074
		2-1/4	5	.030"R	881049	881075
		2-1/4	5	.060"R	881051	881076
		2-1/4	5	.125"R	881052	881077
		3	6	SQ	881131	--

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H		Hardened Steel

● BETTER ◐ OK ○ NOT OPTIMAL

- Ball Nose End
- 4 Flute TiALN Coated
- Variable Pitch, Reduces Chatter
- Round & Weldon Shanks
- Center Cutting
- Fractional Sizes

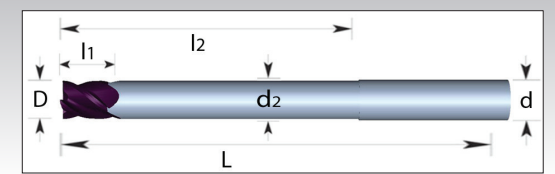
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- Micrograin Carbide
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H		Hardened Steel

● BETTER ◐ OK ○ NOT OPTIMAL

- Long Reach & Neck Relieved
- Same design features as all MaxCut-HP End Mills
- Square, Corner Radius & Ball Nose
- 4 Flute TiALN Coated
- Center Cutting, Fractional Sizes
- Long Reach with side wall clearance



Ball Nose - Fractional							
Cutter D	Shank d	LOC l1	Overall L	End Face	TiALN		
					4 Flute Round Shank	4 Flute Weldon Shank	
3/16	3/16	5/8	2	BN	881098	--	
		3/4	2-1/2	BN	881115	--	
		1-1/8	3	BN	881140	--	
1/4	1/4	3/4	2-1/2	BN	881099	881107	
		1-1/8	3	BN	881116	881124	
		1-1/2	4	BN	881141	--	
5/16	5/16	13/16	2-1/2	BN	881100	881108	
		1-1/8	3	BN	881117	881125	
		1-5/8	4	BN	881142	--	
3/8	3/8	7/8	2-1/2	BN	881101	881109	
		1-1/8	3	BN	881118	881126	
		1-3/4	4	BN	881143	--	
7/16	7/16	1	2-3/4	BN	881102	881110	
		2	4	BN	881119	881127	
1/2	1/2	1	3	BN	881103	881111	
		2	4	BN	881120	881128	
		3	6	BN	881144	--	
5/8	5/8	1-1/4	3-1/2	BN	881104	881112	
		2-1/4	5	BN	881121	881129	
		3	6	BN	881145	--	
3/4	3/4	1-1/2	4	BN	881105	881113	
		2-1/4	5	BN	881122	881130	
		3	6	BN	881146	--	
1	1	1-1/2	4	BN	881097	881106	
		2-1/4	5	BN	881114	881123	
		3	6	BN	881139	--	

Long Reach Neck Relief - Fractional							
Cutter D	Shank d	Neck d2	LOC l1	L.B.S l2	Overall L	End Face	TiALN
							4 Flute Round Shank
3/16	3/16	.1775	3/8	2-1/2	4	SQ	881173
		.1775	3/8	2-1/2	4	.015CR	881174
		.1775	3/8	2-1/2	4	BN	881174
1/4	1/4	.2400	3/8	2-1/2	4	SQ	881175
		.2400	3/8	2-1/2	4	.015CR	881176
		.2400	3/8	2-1/2	4	BN	881199

Long Reach Neck Relief - Fractional							
Cutter D	Shank d	Neck d2	LOC l1	L.B.S l2	Overall L	End Face	TiALN
							4 Flute Round Shank
5/16	5/16	.3025	7/16	2-1/2	4	SQ	881177
		.3025	7/16	2-1/2	4	.015CR	881178
		.3025	7/16	2-1/2	4	BN	881200
3/8	3/8	.3650	1/2	2-1/2	4	SQ	881179
		.3650	1/2	2-1/2	4	.015CR	881180
		.3650	1/2	2-1/2	4	BN	881201
1/2	1/2	.4800	5/8	3	5	SQ	881181
		.4800	5/8	3	5	.020CR	881182
		.4800	5/8	3	5	BN	881202
		.4800	5/8	4	6	SQ	881184
		.4800	5/8	4	6	.020CR	881183
		.4800	5/8	4	6	BN	881203
5/8	5/8	.6050	3/4	3	5	SQ	881185
		.6050	3/4	3	5	.020CR	881186
		.6050	3/4	3	5	BN	881204
		.6050	3/4	4	6	SQ	881188
		.6050	3/4	4	6	.020CR	881187
		.6050	3/4	4	6	BN	881205
3/4	3/4	.7300	1	3	5	SQ	881189
		.7300	1	3	5	.020CR	881190
		.7300	1	3	5	BN	881206
		.7300	1	4	6	SQ	881193
		.7300	1	4	6	.020CR	881191
		.7300	1	4	6	BN	881207
		.7300	1	5	7	SQ	881194
		.7300	1	5	7	.020CR	881192
		.7300	1	5	7	BN	881208
		.9800	1-1/4	3	5	SQ	881167
		.9800	1-1/4	3	5	.020CR	881168
		.9800	1-1/4	3	5	BN	881195
1	1	.9800	1-1/4	4	6	SQ	881171
		.9800	1-1/4	4	6	.020CR	881169
		.9800	1-1/4	4	6	BN	881196
		.9800	1-1/4	5	7	SQ	881172
		.9800	1-1/4	5	7	.020CR	881170
.9800	1-1/4	5	7	BN	881197		

