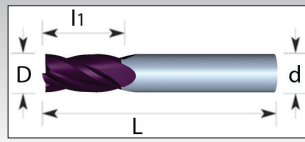


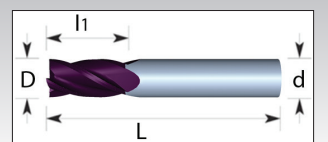
P	●	Steel
M	○	Stainless Steel
K	●	Cast Iron
N	○	Non-Ferrous
S	○	High Temp. Alloys
H	○	Hardened Steel

- Square & Corner Radius End
- 4 & 5 Flute TiALN Coated
- Variable Pitch, Reduces Chatter
- Round & Weldon Shanks
- Center Cutting
- Fractional Sizes
- Extreme Production
- Unique Polishing Process
- Unique Honing Process
- Plunging, Pocketing
- Slotting, Ramping, Profiling
- Ultra Premium Micrograin Carbide



P	●	Steel
M	○	Stainless Steel
K	●	Cast Iron
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- Square & Corner Radius End
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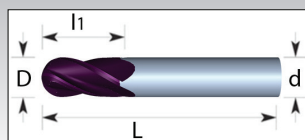
Square & Corner Radius End - Fractional								
Cutter D	Shank d	LOC l1	Overall L	End Face	TiALN			
					4 Flute Round Shank	4 Flute Weldon Shank	5 Flute Round Shank	
1/8	1/8	1/2	1-1/2	.010CR	771007	--	--	
3/16	3/16	3/8	2	SQ	771175	--	--	
		3/8	2	.015CR	771176	--	--	
		5/8	2	SQ	771008	--	--	
		5/8	2	.015CR	771009	--	--	
		3/4	2-1/2	SQ	771079	--	--	
		3/4	2-1/2	.015CR	771080	--	--	
		1-1/8	3	SQ	771159	--	--	
1/4	1/4	3/8	2	SQ	771177	--	--	
		3/8	2	.015CR	771178	--	--	
		3/4	2-1/2	SQ	771010	771051	771013	
		3/4	2-1/2	.020CR	771012	771053	771014	
		1-1/8	3	SQ	771081	771104	--	
		1-1/8	3	.020CR	771082	771105	--	
		1-1/2	4	SQ	771160	--	--	
5/16	5/16	3/8	2	SQ	771179	--	--	
		3/8	2	.020CR	771180	--	--	
		13/16	2-1/2	SQ	771015	771054	771017	
		13/16	2-1/2	.020CR	771016	771055	771018	
		1-1/8	3	SQ	771083	771106	--	
		1-1/8	3	.020CR	771084	771107	--	
		1-5/8	4	SQ	771161	--	--	
3/8	3/8	1/2	2	SQ	771181	--	--	
		1/2	2	.020CR	771182	--	--	
		7/8	2-1/2	SQ	771019	771056	771023	
		7/8	2-1/2	.020CR	771021	771058	771024	
		7/8	2-1/2	.030CR	771022	771059	771025	
		1-1/8	3	SQ	771085	771108	--	
		1-1/8	3	.020CR	771086	771109	--	
7/16	7/16	1	2-3/4	SQ	771026	771060	--	
		2	4	SQ	771087	771110	--	
		5/8	2-1/2	SQ	771183	771189	--	
1/2	1/2	5/8	2-1/2	.030CR	771184	771190	--	
		1-1/4	3	SQ	771027	771061	771031	
		1-1/4	3	.015CR	771028	771062	--	
		1-1/4	3	.030CR	771029	771063	771032	
		1-1/4	3	.060CR	771030	771064	--	
		1-1/4	3	.060CR	771030	771064	--	

Square & Corner Radius End - Fractional								
Cutter D	Shank d	LOC l1	Overall L	End Face	TiALN			
					4 Flute Round Shank	4 Flute Weldon Shank	5 Flute Round Shank	
1/2	1/2	2	4	SQ	771088	771111	--	
		2	4	.015CR	771089	771112	--	
		2	4	.030CR	771090	771113	--	
		2	4	.060CR	771091	771114	--	
		3	6	SQ	771163	--	--	
		3/4	3	SQ	771185	771191	--	
		3/4	3	.030CR	771186	771192	--	
5/8	5/8	1-1/4	3-1/2	SQ	771033	771065	771037	
		1-1/4	3-1/2	.030CR	771034	771066	771038	
		1-1/4	3-1/2	.060CR	771035	771067	--	
		1-1/4	3-1/2	.125CR	771036	771068	--	
		2-1/4	5	SQ	771092	771115	--	
		2-1/4	5	.030CR	771093	771116	--	
		2-1/4	5	.060CR	771094	771117	--	
		2-1/4	5	.125CR	771095	771118	--	
		3	6	SQ	771164	--	--	
		1	3	SQ	771187	771193	--	
		1	3	.030CR	771188	771194	--	
3/4	3/4	1-1/2	4	SQ	771039	771069	771043	
		1-1/2	4	.030CR	771040	771071	771044	
		1-1/2	4	.060CR	771041	771072	--	
		1-1/2	4	.125CR	771042	771073	--	
		2-1/4	5	SQ	771096	771119	--	
		2-1/4	5	.030CR	771097	771120	--	
		2-1/4	5	.060CR	771098	771121	--	
1	1	2-1/4	5	.125CR	771099	771122	--	
		3	6	SQ	771165	--	--	
		1-1/2	4	SQ	771000	771045	771004	
		1-1/2	4	.030CR	771001	771046	771005	
		1-1/2	4	.060CR	771002	771047	--	
		1-1/2	4	.125CR	771003	771048	--	
		2-1/4	5	SQ	771074	771100	--	
		2-1/4	5	.030CR	771075	771101	--	
		2-1/4	5	.060CR	771076	771102	--	
		2-1/4	5	.125CR	771077	771103	--	
		3	6	SQ	771158	--	--	

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

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

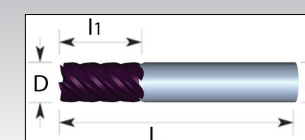
- Extreme Production
- Unique Polishing Process
- Unique Honing Process
- Plunging, Pocketing
- Slotting, Ramping, Profiling
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P	●	Steel
M	○	Stainless Steel
K	●	Cast Iron
N	○	Non-Ferrous
S	○	High Temp. Alloys
H	○	Hardened Steel

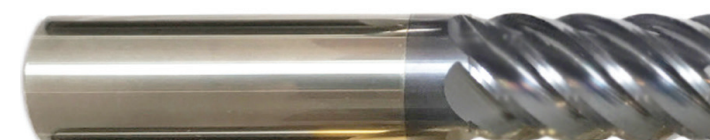
- Square & Corner Radius End
- 6 & 7 Flute TiALN Coated
- Variable Pitch, Reduces Chatter
- Round & Weldon Shanks
- Center Cutting, Fractional Sizes
- Trochoidal & Finish Milling

- Extreme Production
- Unique Polishing Process
- Unique Honing Process
- Plunging, Pocketing
- Slotting, Ramping, Profiling
- Ultra Premium Micrograin Carbide



Ball Nose - Fractional							
Cutter D	Shank d	LOC li	Overall L	End Face	TiALN		
					4 Flute Round Shank	4 Flute Weldon Shank	
3/16	3/16	5/8	2	BN	771125	--	
		3/4	2-1/2	BN	771142	--	
		1-1/8	3	BN	771168	--	
1/4	1/4	3/4	2-1/2	BN	771126	771134	
		1-1/8	3	BN	771143	771151	
		1-1/2	4	BN	771169	--	
		13/16	2-1/2	BN	771127	771135	
5/16	5/16	1-1/8	3	BN	771144	771152	
		1-5/8	4	BN	771170	--	
		7/8	2-1/2	BN	771128	771136	
3/8	3/8	1-1/8	3	BN	771145	771153	
		1-3/4	4	BN	771171	--	
		1	2-3/4	BN	771129	771137	
7/16	7/16	2	4	BN	771146	771154	
		1	3	BN	771130	771138	
1/2	1/2	2	4	BN	771147	771155	
		3	6	BN	771172	--	
		1-1/4	3-1/2	BN	771131	771139	
5/8	5/8	2-1/4	5	BN	771148	771156	
		3	6	BN	771173	--	
		1-1/2	4	BN	771132	771140	
3/4	3/4	2-1/4	5	BN	771149	771157	
		3	6	BN	771174	--	
		1-1/2	4	BN	771123	771133	
1	1	2-1/4	5	BN	771141	771150	
		3	6	BN	771166	--	

Square & Corner Radius End - Fractional							
Cutter D	Shank d	LOC li	Overall L	End Face	TiALN		
					6 Flute Round Shank	7 Flute Round Shank	
1/4	1/4	3/4	2-1/2	SQ	771198	--	
		3/4	2-1/2	.030CR	771199	--	
3/8	3/8	7/8	2-1/2	SQ	771200	--	
		7/8	2-1/2	.030CR	771201	--	
1/2	1/2	1	3	SQ	771202	--	
		1	3	.030CR	771203	771204	
5/8	5/8	1-1/4	3-1/2	SQ	771205	--	
		1-1/4	3-1/2	.030CR	771206	771207	
3/4	3/4	1-1/2	4	SQ	771208	--	
		1-1/2	4	.030CR	771209	771210	
1	1	1-1/2	4	SQ	771195	--	
		1-1/2	4	.030CR	771196	771197	



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