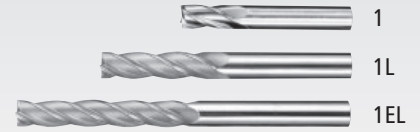


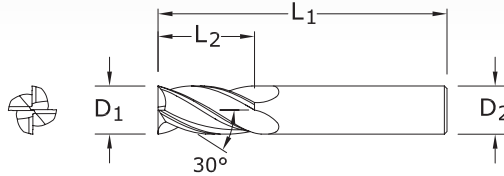
4 Flute End Mills



TOLERANCES (inch)

$D_1 = +0.000/-0.002$

$D_2 = h_6$

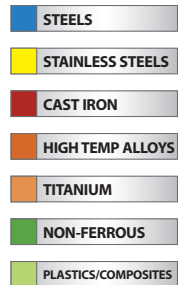


1 · 1L · 1EL
FRACTIONAL SERIES

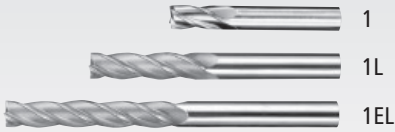
inch				EDP NO.							SERIES
CUTTING DIAMETER D_1	LENGTH OF CUT L_2	OVERALL LENGTH L_1	SHANK DIAMETER D_2	UNCOATED	UNCOATED W/FLAT	Ti-NAMITE (TiN)	Ti-NAMITE-C (TiCN)	Ti-NAMITE-A (AlTiN)	Ti-NAMITE-A (AlTiN) W/FLAT	Di-NAMITE (Diamond)	
1/64	1/32	1-1/2	1/8	30101	—	39101	39001	30191	—	—	1
1/32	5/64	1-1/2	1/8	30103	—	39103	39003	30192	—	—	1
3/64	7/64	1-1/2	1/8	30105	—	39105	39005	30193	—	—	1
1/16	3/16	1-1/2	1/8	30107	—	39107	39007	30194	—	91268	1
5/64	3/16	1-1/2	1/8	30109	—	39109	39009	30195	—	—	1
3/32	9/32	1-1/2	1/8	30111	—	39111	39011	30196	—	—	1
7/64	3/8	1-1/2	1/8	30113	—	39113	39013	30197	—	—	1
1/8	3/8	1-1/2	1/8	30177	—	39177	39077	30029	—	—	1
*1/8	1/2	1-1/2	1/8	30115	—	39115	39015	30198	—	91272	1
1/8	3/4	2-1/4	1/8	33141	—	31727	31737	31747	—	—	1L
1/8	1	3	1/8	33143	—	31860	31870	31880	—	—	1EL
9/64	1/2	2	3/16	30117	—	39117	39017	30199	—	—	1
5/32	1/2	2	3/16	30119	—	39119	39019	30000	—	—	1
11/64	5/8	2	3/16	30121	—	39121	39021	30001	—	—	1
*3/16	5/8	2	3/16	30123	—	39123	39023	30002	—	91276	1
3/16	3/4	2-1/2	3/16	33101	—	31728	31738	31748	—	—	1L
3/16	1-1/8	3	3/16	33121	—	31861	31871	31881	—	—	1EL
13/64	5/8	2-1/2	1/4	30125	—	39125	39025	30003	—	—	1
7/32	5/8	2-1/2	1/4	30127	—	39127	39027	30004	—	—	1
15/64	3/4	2-1/2	1/4	30129	—	39129	39029	30005	—	—	1
*1/4	3/4	2-1/2	1/4	30131	—	39131	39031	30006	—	91280	1
1/4	1-1/8	3	1/4	33103	—	31729	31739	31749	—	—	1L
1/4	1-1/2	4	1/4	33123	—	31862	31872	31882	—	—	1EL
17/64	3/4	2-1/2	5/16	30133	—	39133	39033	30007	—	—	1
9/32	3/4	2-1/2	5/16	30135	—	39135	39035	30008	—	—	1
19/64	13/16	2-1/2	5/16	30137	—	39137	39037	30009	—	—	1
*5/16	13/16	2-1/2	5/16	30139	—	39139	39039	30010	—	91284	1
5/16	1-1/8	3	5/16	33105	—	31730	31740	31763	—	—	1L
5/16	1-5/8	4	5/16	33125	—	31863	31873	31883	—	—	1EL
21/64	1	2-1/2	3/8	30141	—	39141	39041	30011	—	—	1
11/32	1	2-1/2	3/8	30143	—	39143	39043	30012	—	—	1
23/64	1	2-1/2	3/8	30145	—	39145	39045	30013	—	—	1
*3/8	1	2-1/2	3/8	30147	30179	39147	39047	30014	30379	91288	1
3/8	1-1/8	3	3/8	33107	—	31731	31741	31764	—	—	1L
3/8	1-3/4	4	3/8	33127	—	31864	31874	31884	—	—	1EL
25/64	1	2-3/4	7/16	30149	—	39149	39049	30015	—	—	1

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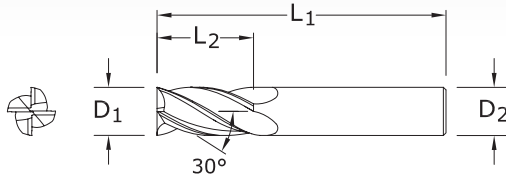
TECH INFO 115



4 Flute End Mills



1 · 1L · 1EL
FRACTIONAL SERIES



TOLERANCES (inch)
D₁ = +0.000/-0.002
D₂ = h₆

TECH INFO 115

- STEELS
- STAINLESS STEELS
- CAST IRON
- HIGH TEMP ALLOYS
- TITANIUM
- NON-FERROUS
- PLASTICS/COMPOSITES

CUTTING DIAMETER D ₁	inch			EDP NO.							SERIES
	LENGTH OF CUT L ₂	OVERALL LENGTH L ₁	SHANK DIAMETER D ₂	UNCOATED	UNCOATED W/FLAT	Ti-NAMITE (TiN)	Ti-NAMITE-C (TiCN)	Ti-NAMITE-A (AlTiN)	Ti-NAMITE-A (AlTiN) W/FLAT	Di-NAMITE (Diamond)	
13/32	1	2-3/4	7/16	30151	—	39151	39051	30016	—	—	1
27/64	1	2-3/4	7/16	30153	—	39153	39053	30017	—	—	1
7/16	1	2-3/4	7/16	30155	—	39155	39055	30018	—	—	1
7/16	2	4-1/2	7/16	33109	—	31732	31742	31765	—	—	1L
7/16	3	6	7/16	33129	—	31865	31875	31885	—	—	1EL
29/64	1	3	1/2	30157	—	39157	39057	30019	—	—	1
15/32	1	3	1/2	30159	—	39159	39059	30020	—	—	1
31/64	1	3	1/2	30161	—	39161	39061	30021	—	—	1
1/2	1	3	1/2	30163	30180	39163	39063	30022	30380	91292	1
1/2	2	4-1/2	1/2	33111	—	31733	31743	31766	—	—	1L
1/2	3	6	1/2	33131	—	31866	31876	31886	—	—	1EL
9/16	1-1/8	3-1/2	9/16	30165	—	39165	39065	30023	—	—	1
5/8	1-1/4	3-1/2	5/8	30167	30181	39167	39067	30024	30381	—	1
5/8	2-1/4	5	5/8	33113	—	31734	31744	31767	—	—	1L
5/8	3	6	5/8	33133	—	31867	31877	31887	—	—	1EL
11/16	1-3/8	4	3/4	30169	—	39169	39069	30025	—	—	1
3/4	1-1/2	4	3/4	30171	30182	39171	39071	30026	30382	—	1
3/4	2-1/4	5	3/4	33115	—	31735	31745	31768	—	—	1L
3/4	3	6	3/4	33135	—	31868	31878	31888	—	—	1EL
7/8	1-1/2	4	7/8	30173	—	39173	39073	30027	—	—	1
1	1-1/2	4	1	30175	30183	39175	39075	30028	30383	—	1
1	2-1/4	5	1	33117	—	31736	31746	31769	—	—	1L
1	3	6	1	33137	—	31869	31879	31889	—	—	1EL
*Series 1 Set				30189	—	39189	39089	30030	—	—	1

