

HIGH-PERFORMANCE MILLING

Application : Ideal for for increased metal removal rates and cutting depth

ISO Material Grades : **P M K S H**



1. 5 Flute Variable

Engineered to eliminate harmful harmonics at the point of contact, producing a smoother finish

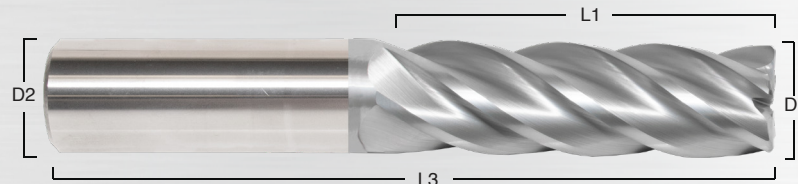
2. Eccentric OD

design consists of an eccentric OD, asymmetrical flutes, and a 35° helix

3. Exxtral® Silver Coating

Is ideal for machining abrasive and gummy materials, High speed operations, semi-dry or dry machining.

D1 Diameter	D2 Shank	L1 LOC	L3 OAL	Square	0.015 RAD	0.030 RAD	0.060 RAD	0.090 RAD	0.125 RAD	0.188 RAD	0.250 RAD	Ball
1/4	1/4	1/2	2	9531113	9502272	9505225	9508248					9531115
1/4	1/4	3/4	2-1/2	9531118	9502274	9505228	9508252					9531120
1/4	1/4	1	3	9531123	9502275	9505229	9508254					9531125
1/4	1/4	1-1/2	4	9531130	9585960	9585963	9585992					9531131
1/4	1/4	2	4	9531133	9581559	9581848	9585993					9586186
5/16	5/16	1/2	2	9531134	9502278	9505233	9508255					9531136
5/16	5/16	7/8	2-1/2	9531138	9502280	9505237	9508258					9531140
5/16	5/16	1-1/4	3	9531143	9502282	9505239	9585996					9531144
5/16	5/16	1-5/8	4	9531149	9581562	9581851	9585997					9586190
5/16	5/16	2-1/8	4	9586191	9581563	9581852	9508260					9586192
3/8	3/8	1/2	2	9531153	9502287	9505242	9508261	9509827	9586099			9531157
3/8	3/8	1	2-1/2	9531173	9502296	9505251	9508271	9509830	9512996			9531175
3/8	3/8	1	3	9531177	9502298	9505252	9508272	9509831	9512997			9531179
3/8	3/8	1-1/2	4	9531184	9502300	9505256	9508277	9509832	9513001			9531186
3/8	3/8	2	4	9531187	9581567	9505258	9585998	9586065	9586100			9586194
3/8	3/8	2-1/2	6	9586195	9581568	9581854	9585999	9586066	9586101			9586196
7/16	7/16	1	2-3/4	9531189	9502301	9505260	9584892	9587587	9586975			9531191
7/16	7/16	2	4	9531201	9502302	9505263	9584893	9586988	9586986			9531202
1/2	1/2	5/8	2-1/2	9531203	9502303	9505264	9508284	9509833	9513004			9531205
1/2	1/2	1-1/4	3	9531233	9502317	9505284	9508297	9509839	9513016			9531236
1/2	1/2	1-5/8	4	9531247	9502321	9505289	9508301	9586069	9513024			9531249
1/2	1/2	2	4	9531253	9502322	9505290	9508302	9509841	9513027			9531255
1/2	1/2	2-1/2	5	9531259	9502323	9505292	9508304	9585124	9513030			9531261
1/2	1/2	3-1/8	6	9531262	9502324	9505293	9508305	9585125	9513032			9531265
5/8	5/8	3/4	3	9531266	9502325	9505294	9508307	9509842	9513034			9531267
5/8	5/8	1-5/8	3-1/2	9531282	9502329	9505314	9508315	9509847	9513042			9531284
5/8	5/8	2-1/8	4	9531288	9581576	9581860	9586004	9586071	9513043			9586203
5/8	5/8	2-1/2	5	9531289	9502331	9505320	9508316	9509849	9583918			9531291
5/8	5/8	3	6	9531293	9502333	9505322	9508317	9509850	9513045			9531294
3/4	3/4	1	3	9531299	9502334	9505329	9508319	9509851	9513048	9586136	9516137	9531301
3/4	3/4	1-5/8	4	9531334	9502338	9505344	9508332	9509857	9513062	9514678	9516142	9531337
3/4	3/4	2-1/4	5	9531346	9502342	9505348	9508335	9509859	9513068	9514679	9516145	9531348
3/4	3/4	3-1/4	6	9531357	9502346	9505354	9508337	9509860	9513071	9586141	9516146	9531360
3/4	3/4	4-1/8	7	9586207	9581582	9581864	9586007	9586074	9586107	9514681	9516149	9586208
1	1	1-1/2	4	9531394	9502357	9505368	9508348	9509867	9513085	9514682	9516153	9531396
1	1	2	4-1/2	9531409	9502360	9505375	9508358	9509870	9513092	9514685	9516154	9531412
1	1	2-1/4	5	9531418	9502361	9505379	9508362	9509871	9513095	9586147	9516158	9531420
1	1	2-5/8	6	9531421	9502362	9505382	9508365	9509872	9513097	9586148	9516160	9531422
1	1	3-1/4	6	9531424	9502363	9505383	9508366	9509873	9513098	9586149	9516164	9531425
1	1	4-1/8	7	9531428	9502364	9505384	9508367	9509874	9513101	9586150	9516167	9531429
1-1/4	1-1/4	2	4-1/2	9531436	9502366	9505386	9508370	9509875	9513103	9586151	9516168	9531437
1-1/4	1-1/4	3	6	9531438	9502367	9505388	9508372	9509876	9513105	9586152	9516171	9531439



Extended Neck

D1 Diameter	D2 Shank	L1 LOC	L2 LBS	L3 OAL	Square	0.015 RAD	0.030 RAD	0.060 RAD	0.090 RAD	0.125 RAD	0.188 RAD	0.250 RAD	Ball
1/4	1/4	1/2	1-1/4	3	9531116	9502273	9505226	9508250					9585608
1/4	1/4	1/2	2-1/8	4	9585609	9581556	9505227	9508251					9585610
1/4	1/4	1/2	3-1/8	5	9586183	9581557	9581846	9585990					9586184
1/4	1/4	1/2	4-1/8	6	9531117	9581558	9581847	9585991					9586185
1/4	1/4	9/16	2-1/8	4	9531137	9581560	9581849	9585994					9586187
1/4	1/4	9/16	4-1/8	6	9586188	9581561	9581850	9585995					9586189
3/8	3/8	3/4	1-1/4	3	9531166	9502295	9505248	9508267					9531167
3/8	3/8	3/4	2-1/8	4	9531168	9581564	9581853	9508268					9531169
3/8	3/8	3/4	3-1/8	5	9586193	9581565	9505249	9508269					9531170
3/8	3/8	3/4	4-1/8	6	9531171	9581566	9505250	9508270					9531172
1/2	1/2	7/8	1-3/8	3	9531221	9502312	9505277	9584894	9585122	9585326			9585611
1/2	1/2	7/8	2-1/8	4	9531222	9502314	9505278	9508291	9585123	9513009			9531223
1/2	1/2	7/8	3-1/8	5	9531224	9581569	9505279	9586000	9509836	9513011			9531225
1/2	1/2	7/8	4-1/8	6	9531226	9502315	9581855	9508292	9509837	9513012			9531227
1/2	1/2	7/8	5-1/8	7	9586197	9581570	9581856	9586001	9586067	9586102			9586198
1/2	1/2	7/8	6-1/8	8	9586199	9581571	9581857	9586002	9586068	9586103			9586200
5/8	5/8	1	2	4	9531277	9581572	9581858	9584895	9585126	9513037			9585612
5/8	5/8	1	3	5	9531278	9581573	9505304	9508312	9585127	9513038			9585613
5/8	5/8	1	4	6	9531279	9581574	9505306	9584896	9585128	9585327			9585614
5/8	5/8	1	6	8	9586201	9581575	9581859	9586003	9586070	9586104			9586202
3/4	3/4	1-1/4	2	4	9531318	9581577	9581861	9584897	9585129	9513055	9586137	9586153	9585615
3/4	3/4	1-1/4	3	5	9531320	9581578	9505340	9508329	9585130	9513057	9514677	9516139	9531321
3/4	3/4	1-1/4	4	6	9531323	9581579	9505341	9508330	9509855	9513058	9586138	9586154	9531324
3/4	3/4	1-1/4	5	7	9531325	9581580	9581862	9586005	9586072	9586105	9586139	9586155	9586204
3/4	3/4	1-1/4	6	8	9586205	9581581	9581863	9586006	9586073	9586106	9586140	9586156	9586206
1	1	1-1/2	2	4	9586209	9581583	9581865	9586008	9586075	9586108	9586142	9586157	9586210
1	1	1-1/2	3	5	9531398	9581584	9505369	9508349	9585131	9513087	9586143	9586158	9531399
1	1	1-1/2	4	6	9531402	9502358	9505370	9508352	9585132	9513089	9586144	9586159	9531403
1	1	1-1/2	5	7	9531406	9581585	9581866	9508354	9585133	9585328	9586145	9586160	9585616
1	1	1-1/2	6	8	9586211	9581586	9581867	9508356	9586076	9586109	9586146	9586161	9586212

