

Hand Taps-Taper Style

High Speed Steel, Ground Thread

- Use for hand or machine tapping in a wide variety of materials.
- Ensures easy starting.
- Higher volume of working teeth reduces tapping torque.
- Seven to ten thread chamfer.



Size	Thread Limit	No. of Flute	Thread Length	Overall Length	Order No.	Size	Thread Limit	No. of Flute	Thread Length	Overall Length	Order No.
0-80NF	H-1	2	5/16"	1-5/8"	440-1000	5/16"-18NC	H-3	4	1-1/8"	2-23/32"	440-1156
0-80NF	H-2	2	5/16	1-5/8	440-1002	5/16-18NC	H-5	4	1-1/8	2-23/32	440-1158
1-64NC	H-1	2	3/8	1-11/16	440-1004	5/16-24NF	H-3	2	1-1/8	2-23/32	440-1165
1-64NC	H-2	2	3/8	1-11/16	440-1006	5/16-24NF	H-3	3	1-1/8	2-23/32	440-1168
1-72NF	H-1	2	3/8	1-11/16	440-1008	5/16-24NF	H-1	4	1-1/8	2-23/32	440-1170
1-72NF	H-2	2	3/8	1-11/16	440-1009	5/16-24NF	H-2	4	1-1/8	2-23/32	440-1172
2-56NC	H-1	2	7/16	1-3/4	440-1010	5/16-24NF	H-3	4	1-1/8	2-23/32	440-1174
2-56NC	H-2	2	7/16	1-3/4	440-1011	5/16-24NF	H-4	4	1-1/8	2-23/32	440-1176
2-56NC	H-1	3	7/16	1-3/4	440-1012	3/8-16NC	H-3	3	1-1/4	2-15/16	440-1182
2-56NC	H-2	3	7/16	1-3/4	440-1013	3/8-16NC	H-5	3	1-1/4	2-15/16	440-1183
2-64NF	H-1	3	7/16	1-3/4	440-1014	3/8-16NC	H-1	4	1-1/4	2-15/16	440-1184
2-64NF	H-2	3	7/16	1-3/4	440-1015	3/8-16NC	H-2	4	1-1/4	2-15/16	440-1186
3-48NC	H-2	3	1/2	1-3/4	440-1018	3/8-16NC	H-3	4	1-1/4	2-15/16	440-1188
3-56NF	H-1	3	1/2	1-3/4	440-1019	3/8-16NC	H-5	4	1-1/4	2-15/16	440-1190
3-56NF	H-2	3	1/2	1-3/4	440-1020	3/8-24NF	H-3	3	1-1/4	2-15/16	440-1224
4-36	H-2	3	1/2	1-13/16	440-1022	3/8-24NF	H-1	4	1-1/4	2-15/16	440-1226
4-40NC	H-1	3	9/16	1-7/8	440-1025	3/8-24NF	H-2	4	1-1/4	2-15/16	440-1228
4-40NC	H-2	3	9/16	1-7/8	440-1026	3/8-24NF	H-3	4	1-1/4	2-15/16	440-1230
4-48NF	H-2	2	9/16	1-7/8	440-1030	3/8-24NF	H-4	4	1-1/4	2-15/16	440-1232
4-48NF	H-2	3	9/16	1-7/8	440-1032	7/16-14NC	H-3	3	1-7/16	3-5/32	440-1234
5-40NC	H-2	2	5/8	1-15/16	440-1033	7/16-14NC	H-5	3	1-7/16	3-5/32	440-1236
5-40NC	H-2	3	5/8	1-15/16	440-1035	7/16-14NC	H-2	4	1-7/16	3-5/32	440-1240
5-44NF	H-2	3	5/8	1-15/16	440-1037	7/16-14NC	H-3	4	1-7/16	3-5/32	440-1242
6-32NC	H-2	2	11/16	2	440-1039	7/16-14NC	H-5	4	1-7/16	3-5/32	440-1244
6-32NC	H-3	2	11/16	2	440-1040	7/16-20NF	H-3	3	1-7/16	3-5/32	440-1246
6-32NC	H-1	3	11/16	2	440-1041	7/16-20NF	H-2	4	1-7/16	3-5/32	440-1256
6-32NC	H-2	3	11/16	2	440-1042	7/16-20NF	H-3	4	1-7/16	3-5/32	440-1258
6-32NC	H-3	3	11/16	2	440-1043	7/16-20NF	H-5	4	1-7/16	3-5/32	440-1260
6-40NF	H-2	2	11/16	2	440-1047	1/2-13NC	H-3	3	1-21-32	3-3/8	440-1262
6-40NF	H-2	3	11/16	2	440-1049	1/2-13NC	H-5	3	1-21-32	3-3/8	440-1264
8-32NC	H-2	2	3/4	2-1/8	440-1051	1/2-13NC	H-1	4	1-21-32	3-3/8	440-1266
8-32NC	H-3	2	3/4	2-1/8	440-1052	1/2-13NC	H-2	4	1-21-32	3-3/8	440-1268
8-32NC	H-2	3	3/4	2-1/8	440-1054	1/2-13NC	H-3	4	1-21-32	3-3/8	440-1270
8-32NC	H-3	3	3/4	2-1/8	440-1055	1/2-13NC	H-5	4	1-21-32	3-3/8	440-1272
8-32NC	H-1	4	3/4	2-1/8	440-1057	1/2-20NF	H-3	3	1-21-32	3-3/8	440-1276
8-32NC	H-2	4	3/4	2-1/8	440-1058	1/2-20NF	H-5	3	1-21-32	3-3/8	440-1278
8-32NC	H-3	4	3/4	2-1/8	440-1059	1/2-20NF	H-1	4	1-21-32	3-3/8	440-1280
8-36NF	H-2	2	3/4	2-1/8	440-1063	1/2-20NF	H-2	4	1-21-32	3-3/8	440-1282
8-36NF	H-2	4	3/4	2-1/8	440-1065	1/2-20NF	H-3	4	1-21-32	3-3/8	440-1284
10-24NC	H-2	2	7/8	2-3/8	440-1066	1/2-20NF	H-5	4	1-21-32	3-3/8	440-1286
10-24NC	H-3	2	7/8	2-3/8	440-1067	9/16-12NC	H-1	4	1-21-32	3-19/32	440-1312
10-24NC	H-2	3	7/8	2-3/8	440-1068	9/16-12NC	H-3	4	1-21-32	3-19/32	440-1316
10-24NC	H-3	3	7/8	2-3/8	440-1069	9/16-12NC	H-5	4	1-21-32	3-19/32	440-1318
10-24NC	H-1	4	7/8	2-3/8	440-1071	9/16-18NF	H-2	4	1-21-32	3-19/32	440-1322
10-24NC	H-2	4	7/8	2-3/8	440-1072	9/16-18NF	H-3	4	1-21-32	3-19/32	440-1324
10-24NC	H-3	4	7/8	2-3/8	440-1073	9/16-18NF	H-5	4	1-21-32	3-19/32	440-1326
10-32NF	H-2	2	7/8	2-3/8	440-1078	5/8-11NC	H-2	4	1-13/16	3-13/16	440-1330
10-32NF	H-3	2	7/8	2-3/8	440-1079	5/8-11NC	H-3	4	1-13/16	3-13/16	440-1332
10-32NF	H-2	3	7/8	2-3/8	440-1080	5/8-11NC	H-5	4	1-13/16	3-13/16	440-1334
10-32NF	H-3	3	7/8	2-3/8	440-1081	5/8-18NF	H-1	4	1-13/16	3-13/16	440-1338
10-32NF	H-1	4	7/8	2-3/8	440-1083	5/8-18NF	H-2	4	1-13/16	3-13/16	440-1340
10-32NF	H-2	4	7/8	2-3/8	440-1084	5/8-18NF	H-3	4	1-13/16	3-13/16	440-1342
10-32NF	H-3	4	7/8	2-3/8	440-1085	5/8-18NF	H-5	4	1-13/16	3-13/16	440-1343
12-24NC	H-3	4	15/16	2-3/8	440-1090	11/16-11NS	H-3	4	1-13/16	4-1/32	440-1344
12-28NF	H-1	4	15/16	2-3/8	440-1091	11/16-16NS	H-3	4	1-13/16	4-1/32	440-1345
12-28NF	H-3	4	15/16	2-3/8	440-1092	3/4-10NC	H-3	4	2	4-1/4	440-1350
1/4-20NC	H-3	2	1	2-1/2	440-1102	3/4-10NC	H-5	4	2	4-1/4	440-1352
1/4-20NC	H-3	3	1	2-1/2	440-1108	3/4-16NF	H-1	4	2	4-1/4	440-1354
1/4-20NC	H-5	3	1	2-1/2	440-1110	3/4-16NF	H-3	4	2	4-1/4	440-1358
1/4-20NC	H-1	4	1	2-1/2	440-1112	3/4-16NC	H-5	4	2	4-1/4	440-1360
1/4-20NC	H-2	4	1	2-1/2	440-1114	7/8-9NC	H-4	4	2-7/32	4-11/16	440-1366
1/4-20NC	H-3	4	1	2-1/2	440-1116	7/8-14NF	H-4	4	2-7/32	4-11/16	440-1374
1/4-20NC	H-5	4	1	2-1/2	440-1118	1-8NC	H-4	4	2-1/2	5-1/8	440-1380
1/4-28NF	H-3	2	1	2-1/2	440-1132	1-12NF	H-4	4	2-1/2	5-1/8	440-1388
1/4-28NF	H-3	3	1	2-1/2	440-1134	1-14NS	H-4	4	2-1/2	5-1/8	440-1394
1/4-28NF	H-1	4	1	2-1/2	440-1136	1-1/8-7NC	H-4	4	2-9/16	5-7/16	440-1398
1/4-28NF	H-2	4	1	2-1/2	440-1138	1-1/8-12NF	H-4	4	2-9/16	5-7/16	440-1400
1/4-28NF	H-3	4	1	2-1/2	440-1140	1-1/4-7NC	H-4	4	2-9/16	5-3/4	440-1402
1/4-28NF	H-4	4	1	2-1/2	440-1142	1-1/4-12NF	H-4	6	2-9/16	5-3/4	440-1404
5/16-18NC	H-3	2	1-1/8	2-23/32	440-1144	1-3/8-6NC	H-4	4	3	6-1/16	440-1406
5/16-18NC	H-3	3	1-1/8	2-23/32	440-1148	1-3/8-12NF	H-4	6	3	6-1/16	440-1408
5/16-18NC	H-1	4	1-1/8	2-23/32	440-1152	1-1/2-6NC	H-4	4	3	6-3/8	440-1410
5/16-18NC	H-2	4	1-1/8	2-23/32	440-1154	1-1/2-12NF	H-4	6	3	6-3/8	440-1412

Hand Taps-Plug Style

High Speed Steel, Ground Thread

- Used for hand tapping or general machine and CNC tapping in wide variety of materials.
- The most versatile choice for through and semi-blind holes.
- Three to five thread chamfer.



ThreadNo.osf Thread						ThreadNo.of Thread						ThreadNo.of Thread					
Size	Limit	Flute	Length	OAL	Order No.	Size	Limit	Flute	Length	OAL	Order No.	Size	Limit	Flute	Length	OAL	Order No.
0-80NF	H-1	2	5/16"	1-5/8"	440-2000	10-32NF	H-2	2	7/8"	2-3/8"	440-2078	7/16"-20NF	H-5	3	1-7/16"	3-5/32"	440-2254
0-80NF	H-2	2	5/16	1-5/8	440-2002	10-32NF	H-3	2	7/8	2-3/8	440-2079	7/16-20NF	H-2	4	1-7/16	3-5/32	440-2256
1-64NC	H-1	2	3/8	1-11/16	440-2004	10-32NF	H-2	3	7/8	2-3/8	440-2080	7/16-20NF	H-3	4	1-7/16	3-5/32	440-2258
1-64NC	H-2	2	3/8	1-11/16	440-2006	10-32NF	H-3	3	7/8	2-3/8	440-2081	7/16-20NF	H-5	4	1-7/16	3-5/32	440-2260
1-72NF	H-1	2	3/8	1-11/16	440-2008	10-32NF	H-7	3	7/8	2-3/8	440-2082	7/16-20NF	H-11	4	1-7/16	3-5/32	440-2261
1-72NF	H-2	2	3/8	1-11/16	440-2009	10-32NF	H-1	4	7/8	2-3/8	440-2083	1/2-13NC	H-3	3	1-21/32	3-3/8	440-2262
2-56NC	H-1	2	7/16	1-3/4	440-2010	10-32NF	H-2	4	7/8	2-3/8	440-2084	1/2-13NC	H-5	3	1-21/32	3-3/8	440-2264
2-56NC	H-2	2	7/16	1-3/4	440-2011	10-32NF	H-3	4	7/8	2-3/8	440-2085	1/2-13NC	H-1	4	1-21/32	3-3/8	440-2266
2-56NC	H-1	3	7/16	1-3/4	440-2012	10-32NF	H-4	4	7/8	2-3/8	440-2086	1/2-13NC	H-2	4	1-21/32	3-3/8	440-2268
2-56NC	H-2	3	7/16	1-3/4	440-2013	10-32NF	H-5	4	7/8	2-3/8	440-2087	1/2-13NC	H-3	4	1-21/32	3-3/8	440-2270
2-64NF	H-1	3	7/16	1-3/4	440-2014	10-32NF	H-7	4	7/8	2-3/8	440-2088	1/2-13NC	H-5	4	1-21/32	3-3/8	440-2272
2-64NF	H-2	3	7/16	1-3/4	440-2015	12-24NC	H-1	4	15/16	2-3/8	440-2089	1/2-13NC	H-11	4	1-21/32	3-3/8	440-2274
3-48NC	H-2	2	1/2	1-13/16	440-2016	12-24NC	H-3	4	15/16	2-3/8	440-2090	1/2-20NF	H-3	3	1-21/32	3-3/8	440-2276
3-48NC	H-1	3	1/2	1-13/16	440-2017	12-28NF	H-1	4	15/16	2-3/8	440-2091	1/2-20NF	H-5	3	1-21/32	3-3/8	440-2278
3-48NC	H-2	3	1/2	1-13/16	440-2018	12-28NF	H-3	4	15/16	2-3/8	440-2092	1/2-20NF	H-1	4	1-21/32	3-3/8	440-2280
3-56NF	H-1	3	1/2	1-13/16	440-2019	14-20	H-3	4	1-1/4	2-9/16	440-2093	1/2-20NF	H-2	4	1-21/32	3-3/8	440-2282
3-56NF	H-2	3	1/2	1-13/16	440-2020	14-24	H-3	4	1-1/4	2-5/8	440-2094	1/2-20NF	H-3	4	1-21/32	3-3/8	440-2284
4-36	H-1	3	1/2	1-13/16	440-2021	1/4-20NC	H-3	2	1	2-1/2	440-2102	1/2-20NF	H-5	4	1-21/32	3-3/8	440-2286
4-36	H-2	3	1/2	1-13/16	440-2022	1/4-20NC	H-1	3	1	2-1/2	440-2104	9/16-12NC	H-2	4	1-21/32	3-19/32	440-2314
4-40NC	H-1	2	9/16	1-7/8	440-2023	1/4-20NC	H-2	3	1	2-1/2	440-2106	9/16-12NC	H-3	4	1-21/32	3-19/32	440-2316
4-40NC	H-2	2	9/16	1-7/8	440-2024	1/4-20NC	H-3	3	1	2-1/2	440-2108	9/16-12NC	H-5	4	1-21/32	3-19/32	440-2318
4-40NC	H-1	3	9/16	1-7/8	440-2025	1/4-20NC	H-5	3	1	2-1/2	440-2110	9/16-18NF	H-1	4	1-21/32	3-19/32	440-2320
4-40NC	H-2	3	9/16	1-7/8	440-2026	1/4-20NC	H-1	4	1	2-1/2	440-2112	9/16-18NF	H-2	4	1-21/32	3-19/32	440-2322
4-40NC	H-3	3	9/16	1-7/8	440-2027	1/4-20NC	H-2	4	1	2-1/2	440-2114	9/16-18NF	H-3	4	1-21/32	3-19/32	440-2324
4-40NC	H-4	4	9/16	1-7/8	440-2028	1/4-20NC	H-3	4	1	2-1/2	440-2116	9/16-18NF	H-5	4	1-21/32	3-19/32	440-2326
4-40NC	H-5	5	9/16	1-7/8	440-2029	1/4-20NC	H-5	4	1	2-1/2	440-2118	5/8-11NC	H-1	4	1-13/16	3-13/16	440-2328
4-48NF	H-2	2	9/16	1-7/8	440-2030	1/4-20NC	H-6	4	1	2-1/2	440-2120	5/8-11NC	H-2	4	1-13/16	3-13/16	440-2330
4-48NF	H-1	3	9/16	1-7/8	440-2031	1/4-20NC	H-7	4	1	2-1/2	440-2122	5/8-11NC	H-3	4	1-13/16	3-13/16	440-2332
4-48NF	H-2	3	9/16	1-7/8	440-2032	1/4-20NC	H-11	4	1	2-1/2	440-2124	5/8-11NC	H-5	4	1-13/16	3-13/16	440-2334
5-40NC	H-2	2	5/8	1-15/16	440-2033	1/4-28NF	H-3	2	1	2-1/2	440-2132	5/8-11NC	H-11	4	1-13/16	3-13/16	440-2336
5-40NC	H-1	3	5/8	1-15/16	440-2034	1/4-28NF	H-3	3	1	2-1/2	440-2134	5/8-18NF	H-1	4	1-13/16	3-13/16	440-2338
5-40NC	H-2	3	5/8	1-15/16	440-2035	1/4-28NF	H-1	4	1	2-1/2	440-2136	5/8-18NF	H-2	4	1-13/16	3-13/16	440-2340
5-44NF	H-1	3	5/8	1-15/16	440-2036	1/4-28NF	H-2	4	1	2-1/2	440-2138	5/8-18NF	H-3	4	1-13/16	3-13/16	440-2342
5-44NF	H-2	3	5/8	1-15/16	440-2037	1/4-28NF	H-3	4	1	2-1/2	440-2140	5/8-18NF	H-5	4	1-13/16	3-13/16	440-2343
6-32NC	H-1	2	11/16	2	440-2038	1/4-28NF	H-4	4	1	2-1/2	440-2142	11/16-11NS	H-3	4	1-13/16	4-1/32	440-2344
6-32NC	H-2	2	11/16	2	440-2039	5/16-18NC	H-3	2	1-1/8	2-23/32	440-2144	11/16-16NS	H-3	4	1-13/16	4-1/32	440-2345
6-32NC	H-3	2	11/16	2	440-2040	5/16-18NC	H-1	3	1-1/8	2-23/32	440-2146	3/4-10NC	H-1	4	2	4-1/4	440-2346
6-32NC	H-1	3	11/16	2	440-2041	5/16-18NC	H-3	3	1-1/8	2-23/32	440-2148	3/4-10NC	H-2	4	2	4-1/4	440-2348
6-32NC	H-2	3	11/16	2	440-2042	5/16-18NC	H-5	3	1-1/8	2-23/32	440-2150	3/4-10NC	H-3	4	2	4-1/4	440-2350
6-32NC	H-3	3	11/16	2	440-2043	5/16-18NC	H-1	4	1-1/8	2-23/32	440-2152	3/4-10NC	H-5	4	2	4-1/4	440-2352
6-32NC	H-7	3	11/16	2	440-2044	5/16-18NC	H-2	4	1-1/8	2-23/32	440-2154	3/4-16NF	H-1	4	2	4-1/4	440-2354
6-32NC	H-4	4	11/16	2	440-2045	5/16-18NC	H-3	4	1-1/8	2-23/32	440-2156	3/4-16NF	H-2	4	2	4-1/4	440-2356
6-32NC	H-5	5	11/16	2	440-2046	5/16-18NC	H-5	4	1-1/8	2-23/32	440-2158	3/4-16NF	H-3	4	2	4-1/4	440-2358
6-40NF	H-2	2	11/16	2	440-2047	5/16-18NC	H-6	4	1-1/8	2-23/32	440-2160	3/4-16NF	H-5	4	2	4-1/4	440-2360
6-40NF	H-1	3	11/16	2	440-2048	5/16-18NC	H-7	4	1-1/8	2-23/32	440-2162	7/8-9NC	H-2	4	2-7/32	4-11/16	440-2362
6-40NF	H-2	3	11/16	2	440-2049	5/16-18NC	H-11	4	1-1/8	2-23/32	440-2164	7/8-9NC	H-3	4	2-7/32	4-11/16	440-2364
8-32NC	H-1	2	3/4	2-1/8	440-2050	5/16-24NF	H-3	2	1-1/8	2-23/32	440-2165	7/8-9NC	H-4	4	2-7/32	4-11/16	440-2366
8-32NC	H-2	2	3/4	2-1/8	440-2051	5/16-24NF	H-1	3	1-1/8	2-23/32	440-2166	7/8-9NC	H-6	4	2-7/32	4-11/16	440-2367
8-32NC	H-3	2	3/4	2-1/8	440-2052	5/16-24NF	H-3	3	1-1/8	2-23/32	440-2168	7/8-14NF	H-1	4	2-7/32	4-11/16	440-2368
8-32NC	H-1	3	3/4	2-1/8	440-2053	5/16-24NF	H-1	4	1-1/8	2-23/32	440-2170	7/8-14NF	H-2	4	2-7/32	4-11/16	440-2370
8-32NC	H-2	3	3/4	2-1/8	440-2054	5/16-24NF	H-2	4	1-1/8	2-23/32	440-2172	7/8-14NF	H-3	4	2-7/32	4-11/16	440-2372
8-32NC	H-3	3	3/4	2-1/8	440-2055	5/16-24NF	H-3	4	1-1/8	2-23/32	440-2174	7/8-14NF	H-4	4	2-7/32	4-11/16	440-2374
8-32NC	H-7	3	3/4	2-1/8	440-2056	5/16-24NF	H-4	4	1-1/8	2-23/32	440-2176	7/8-14NF	H-6	4	2-7/32	4-11/16	440-2375
8-32NC	H-1	4	3/4	2-1/8	440-2057	3/8-16NC	H-1	3	1-1/4	2-15/16	440-2180	1-8NC	H-1	4	2-1/2	5-1/8	440-2376
8-32NC	H-2	4	3/4	2-1/8	440-2058	3/8-16NC	H-3	3	1-1/4	2-15/16	440-2182	1-8NC	H-2	4	2-1/2	5-1/8	440-2378
8-32NC	H-3	4	3/4	2-1/8	440-2059	3/8-16NC	H-5	3	1-1/4	2-15/16	440-2183	1-8NC	H-4	4	2-1/2	5-1/8	440-2380
8-32NC	H-4	4	3/4	2-1/8	440-2060	3/8-16NC	H-1	4	1-1/4	2-15/16	440-2184	1-8NC	H-6	4	2-1/2	5-1/8	440-2382
8-32NC	H-5	4	3/4	2-1/8	440-2061												

Hand Taps-Bottoming Style

High Speed Steel, Ground Thread

- Used for tapping blind holes requiring full threads near the bottom of the hole.
- Featured for hand tapping general machine or CNC tapping in a wide variety of materials.
- One to two thread chamfer.



Size	Thread		No. of Thread		Overall Length	Order No.	Size	Thread		No. of Thread		Overall Length	Order No.	Size	Thread		No. of Thread		Overall Length	Order No.
	Limit	Flute	Length	Length				Limit	Flute	Length	Length				Limit	Flute	Length	Length		
0-80NF	H-1	2"	5/16"	1-5/8"	440-3000		10-32NF	H-2	2	7/8"	2-3/8"	440-3078		7/16"-14NC	H-5	4	1-7/16"	3-5/32"	440-3244	
0-80NF	H-2	2	5/16	1-5/8	440-3002		10-32NF	H-3	2	7/8	2-3/8	440-3079		7/16-20NF	H-3	3	1-7/16	3-5/32	440-3246	
1-64NC	H-1	2	3/8	1-11/16	440-3004		10-32NF	H-2	3	7/8	2-3/8	440-3080		7/16-20NF	H-5	3	1-7/16	3-5/32	440-3254	
1-64NC	H-2	2	3/8	1-11/16	440-3006		10-32NF	H-3	3	7/8	2-3/8	440-3081		7/16-20NF	H-2	4	1-7/16	3-5/32	440-3256	
1-72NF	H-1	2	3/8	1-11/16	440-3008		10-32NF	H-7	3	7/8	2-3/8	440-3082		7/16-20NF	H-3	4	1-7/16	3-5/32	440-3258	
1-72NF	H-2	2	3/8	1-11/16	440-3009		10-32NF	H-1	4	7/8	2-3/8	440-3083		7/16-20NF	H-5	4	1-7/16	3-5/32	440-3260	
2-56NC	H-2	2	7/16	1-3/4	440-3011		10-32NF	H-2	4	7/8	2-3/8	440-3084		1/2-13NC	H-3	3	1-21/32	3-3/8	440-3262	
2-56NC	H-1	3	7/16	1-3/4	440-3012		10-32NF	H-3	4	7/8	2-3/8	440-3085		1/2-13NC	H-5	3	1-21/32	3-3/8	440-3264	
2-56NC	H-2	3	7/16	1-3/4	440-3013		10-32NF	H-7	4	7/8	2-3/8	440-3088		1/2-13NC	H-1	4	1-21/32	3-3/8	440-3266	
2-64NF	H-1	3	7/16	1-3/4	440-3014		12-24NC	H-3	4	15/16	2-3/8	440-3090		1/2-13NC	H-2	4	1-21/32	3-3/8	440-3268	
2-64NF	H-2	3	7/16	1-3/4	440-3015		12-28NF	H-1	4	15/16	2-3/8	440-3091		1/2-13NC	H-3	4	1-21/32	3-3/8	440-3270	
3-48NC	H-2	2	1/2	1-13/16	440-3016		12-28NF	H-3	4	15/16	2-3/8	440-3092		1/2-13NC	H-5	4	1-21/32	3-3/8	440-3272	
3-48NC	H-2	3	1/2	1-13/16	440-3018		14-24	H-3	4	1-1/4	2-5/8	440-3094		1/2-20NF	H-3	3	1-21/32	3-3/8	440-3276	
3-56NF	H-1	3	1/2	1-13/16	440-3019		1/4-20NC	H-3	2	1	2-1/2	440-3102		1/2-20NF	H-5	3	1-21/32	3-3/8	440-3278	
3-56NF	H-2	3	1/2	1-13/16	440-3020		1/4-20NC	H-5	2	1	2-1/2	440-3103		1/2-20NF	H-1	4	1-21/32	3-3/8	440-3280	
4-36	H-2	3	9/16	1-7/8	440-3022		1/4-20NC	H-2	3	1	2-1/2	440-3106		1/2-20NF	H-2	4	1-21/32	3-3/8	440-3282	
4-40NC	H-1	2	9/16	1-7/8	440-3023		1/4-20NC	H-3	3	1	2-1/2	440-3108		1/2-20NF	H-3	4	1-21/32	3-3/8	440-3284	
4-40NC	H-2	2	9/16	1-7/8	440-3024		1/4-20NC	H-5	3	1	2-1/2	440-3110		1/2-20NF	H-5	4	1-21/32	3-3/8	440-3286	
4-40NC	H-1	3	9/16	1-7/8	440-3025		1/4-20NC	H-1	4	1	2-1/2	440-3112		9/16-12NC	H-2	4	1-21/32	3-19/16	440-3314	
4-40NC	H-2	3	9/16	1-7/8	440-3026		1/4-20NC	H-2	4	1	2-1/2	440-3114		9/16-12NC	H-3	4	1-21/32	3-19/16	440-3316	
4-48NF	H-2	2	9/16	1-7/8	440-3030		1/4-20NC	H-3	4	1	2-1/2	440-3116		9/16-12NC	H-5	4	1-21/32	3-19/16	440-3318	
4-48NF	H-2	3	9/16	1-7/8	440-3032		1/4-20NC	H-5	4	1	2-1/2	440-3118		9/16-18NF	H-2	4	1-21/32	3-19/16	440-3322	
5-40NC	H-2	2	5/8	1-15/16	440-3033		1/4-28NF	H-3	2	1	2-1/2	440-3132		9/16-18NF	H-3	4	1-21/32	3-19/16	440-3324	
5-40NC	H-7	3	5/8	1-15/16	440-3034		1/4-28NF	H-3	3	1	2-1/2	440-3134		9/16-18NF	H-5	4	1-21/32	3-19/16	440-3326	
5-40NC	H-2	3	5/8	1-15/16	440-3035		1/4-28NF	H-1	4	1	2-1/2	440-3136		5/8-11NC	H-1	4	1-13/16	3-13/16	440-3328	
5-44NF	H-1	3	5/8	1-15/16	440-3036		1/4-28NF	H-2	4	1	2-1/2	440-3138		5/8-11NC	H-2	4	1-13/16	3-13/16	440-3330	
5-44NF	H-2	3	5/8	1-15/16	440-3037		1/4-28NF	H-3	4	1	2-1/2	440-3140		5/8-11NC	H-3	4	1-13/16	3-13/16	440-3332	
6-32NC	H-1	2	11/16	2	440-3038		1/4-28NF	H-4	4	1	2-1/2	440-3142		5/8-11NC	H-5	4	1-13/16	3-13/16	440-3334	
6-32NC	H-2	2	11/16	2	440-3039		5/16-18NC	H-3	2	1-1/8	2-23/32	440-3144		5/8-18NF	H-1	4	1-13/16	3-13/16	440-3338	
6-32NC	H-3	2	11/16	2	440-3040		5/16-18NC	H-5	2	1-1/8	2-23/32	440-3145		5/8-18NF	H-2	4	1-13/16	3-13/16	440-3340	
6-32NC	H-1	3	11/16	2	440-3041		5/16-18NC	H-3	3	1-1/8	2-23/32	440-3148		5/8-18NF	H-3	4	1-13/16	3-13/16	440-3342	
6-32NC	H-2	3	11/16	2	440-3042		5/16-18NC	H-5	3	1-1/8	2-23/32	440-3150		5/8-18NF	H-5	4	1-13/16	3-13/16	440-3343	
6-32NC	H-3	3	11/16	2	440-3043		5/16-18NC	H-1	4	1-1/8	2-23/32	440-3152		11/16-11NS	H-3	4	1-13/16	4-1/32	440-3344	
6-32NC	H-7	3	11/16	2	440-3044		5/16-18NC	H-2	4	1-1/8	2-23/32	440-3154		11/16-16NS	H-3	4	1-13/16	4-1/32	440-3345	
6-40NF	H-2	2	11/16	2	440-3047		5/16-18NC	H-3	4	1-1/8	2-23/32	440-3156		3/4-10NC	H-1	4	2	4-1/4	440-3346	
6-40NF	H-1	3	11/16	2	440-3048		5/16-18NC	H-5	4	1-1/8	2-23/32	440-3158		3/4-10NC	H-3	4	2	4-1/4	440-3350	
6-40NF	H-2	3	11/16	2	440-3049		5/16-24NF	H-3	3	1-1/8	2-23/32	440-3168		3/4-10NC	H-5	4	2	4-1/4	440-3352	
8-32NC	H-2	2	3/4	2-1/8	440-3051		5/16-24NF	H-1	4	1-1/8	2-23/32	440-3170		3/4-16NF	H-1	4	2	4-1/4	440-3354	
8-32NC	H-3	2	3/4	2-1/8	440-3052		5/16-24NF	H-2	4	1-1/8	2-23/32	440-3172		3/4-16NF	H-2	4	2	4-1/4	440-3356	
8-32NC	H-2	3	3/4	2-1/8	440-3054		5/16-24NF	H-3	4	1-1/8	2-23/32	440-3174		3/4-16NF	H-3	4	2	4-1/4	440-3358	
8-32NC	H-3	3	3/4	2-1/8	440-3055		5/16-24NF	H-4	4	1-1/8	2-23/32	440-3176		3/4-16NC	H-5	4	2	4-1/4	440-3360	
8-32NC	H-7	3	3/4	2-1/8	440-3056		3/8-16NC	H-1	3	1-1/4	2-15/16	440-3180		7/8-9NC	H-1	4	2-7/32	4-11/16	440-3361	
8-32NC	H-1	4	3/4	2-1/8	440-3057		3/8-16NC	H-3	3	1-1/4	2-15/16	440-3182		7/8-9NC	H-4	4	2-7/32	4-11/16	440-3366	
8-32NC	H-2	4	3/4	2-1/8	440-3058		3/8-16NC	H-5	3	1-1/4	2-15/16	440-3183		7/8-9NC	H-6	4	2-7/32	4-11/16	440-3367	
8-32NC	H-3	4	3/4	2-1/8	440-3059		3/8-16NC	H-1	4	1-1/4	2-15/16	440-3184		7/8-14NF	H-4	4	2-7/32	4-11/16	440-3374	
8-32NC	H-7	4	3/4	2-1/8	440-3062		3/8-16NC	H-2	4	1-1/4	2-15/16	440-3186		7/8-14NF	H-6	4	2-7/32	4-11/16	440-3375	
8-36NF	H-2	2	3/4	2-1/8	440-3063		3/8-16NC	H-3	4	1-1/4	2-15/16	440-3188		1-8NC	H-1	4	2-1/2	5-1/8	440-3376	
8-36NF	H-1	4	3/4	2-1/8	440-3064		3/8-16NC	H-5	4	1-1/4	2-15/16	440-3190		1-8NC	H-4	4	2-1/2	5-1/8	440-3380	
8-36NF	H-2	4	3/4	2-1/8	440-3065		3/8-24NF	H-3	3	1-1/4	2-15/16	440-3224		1-12NF	H-4	4	2-1/2	5-1/8	440-3388	
10-24NC	H-2	2	7/8	2-3/8	440-3066		3/8-24NF	H-1	4	1-1/4	2-15/16	440-3226		1-14NS	H-4	4	2-1/2	5-1/8	440-3394	
10-24NC	H-3	2	7/8	2-3/8	440-3067		3/8-24NF	H-2	4	1-1/4	2-15/16	440-3228		1-1/8-7NC	H-4	4	2-9/16	5-3/4	440-3398	
10-24NC	H-3	3	7/8	2-3/8	440-3069		3/8-24NF	H-3	4	1-1/4	2-15/16	440-3230		1-1/8-12NF	H-4	4	2-9/16	5-3/4	440-3400	
10-24NC	H-7	3	7/8	2-3/8	440-3070		3/8-24NF	H-4	4	1-1/4	2-15/16	440-3232		1-1/4-7NC	H-4	4	2-9/16	5-3/4	440-3402	
10-24NC	H-1	4	7/8	2-3/8	440-3071		7/16-14NC	H-3	3	1-7/16	3-5/32	440-3234		1-1/4-12NF	H-4	6	2-9/16	5-3/4	440-3404	
10-24NC	H-2	4	7/8	2-3/8	440-3072		7/16-14NC	H-5	3	1-7/16	3-5/32	440-3236		1-3/8-6NC	H-4	4	3	6-1/16	440-3406	
10-24NC	H-3	4	7/8	2-3/8	440-3073		7/16-14NC	H-1	4	1-7/16	3-5/32	440-3238		1-3/8-12NF	H-4	6	3	6-1/16	440-3408	
10-24NC	H-7	4	7/8	2-3/8	440-3076		7/16-14NC	H-2	4	1-7/16	3-5/32	440-3240		1-1/2-6NC	H-4	4	3	6-3/8	440-3410	
10-32NF	H-1	2	7/8	2-3/8	440-3077		7/16-14NC	H-3	4	1-7/16	3-5/32	440-3242		1-1/2-12NF	H-4	6	3	6-3/8	440-3412	

M35 Cobalt Spiral Point Taps

HSS, Ground Thread



Tap Size	No. of Flutes	Thread Limits	Order No.
0-80NF	2	H-1	413-9002
0-80NF	2	H-2	413-9004
1-64NC	2	H-1	413-9006
1-64NC	2	H-2	413-9008
1-72NF	2	H-1	413-9010
1-72NF	2	H-2	413-9012
2-56NC	2	H-1	413-9013
2-56NC	2	H-2	413-9014
2-64NF	2	H-1	413-9015
2-64NF	2	H-2	413-9016
3-48NC	2	H-1	413-9017
3-48NC	2	H-2	413-9018
3-56NF	2	H-1	413-9019
3-56NF	2	H-2	413-9020
4-36	2	H-1	413-9021
4-40NC	2	H-2	413-9022
4-40NC	2	H-1	413-9023
4-40NC	2	H-7	413-9024
4-48NF	2	H-1	413-9025
4-48NF	2	H-2	413-9026
5-40NC	2	H-1	413-9027
5-40NC	2	H-2	413-9028
5-40NC	2	H-3	413-9029
5-40NC	2	H-7	413-9030
5-44NF	2	H-1	413-9031
5-44NF	2	H-2	413-9032
5-44NF	2	H-3	413-9033
6-32NC	2	H-2	413-9034
6-32NC	2	H-1	413-9035
6-32NC	2	H-3	413-9036
6-32NC	2	H-7	413-9038
6-40NF	2	H-3	413-9039
6-40NF	2	H-2	413-9040
6-48	2	H-3	413-9041
8-32NC	2	H-2	413-9042
8-32NC	2	H-1	413-9043
8-32NC	2	H-3	413-9044
8-32NC	2	H-7	413-9046
8-36NF	2	H-3	413-9047
8-36NF	2	H-2	413-9048
8-40	2	H-3	413-9049
10-24NC	2	H-2	413-9050
10-24NC	2	H-1	413-9051
10-24NC	2	H-3	413-9052
10-24NC	2	H-7	413-9054
10-32NF	2	H-2	413-9056
10-32NF	2	H-1	413-9057
10-32NF	2	H-3	413-9058
10-32NF	2	H-7	413-9060
10-40	2	H-3	413-9061
12-24NC	2	H-3	413-9062
12-24NC	2	H-2	413-9063
12-28NF	2	H-3	413-9064
12-32	2	H-3	413-9065
1/4"-20NC	2	H-2	413-9066
1/4"-20NC	2	H-1	413-9067
1/4"-20NC	2	H-3	413-9068

Tap Size	No. of Flutes	Thread Limits	Order No.
1/4"-20NC	2	H-5	413-9070
1/4"-20NC	3	H-2	413-9072
1/4"-20NC	3	H-3	413-9074
1/4"-20NC	3	H-5	413-9076
1/4"-24	2	H-3	413-9077
1/4"-28NF	2	H-2	413-9078
1/4"-32	2	H-3	413-9079
1/4"-28NF	2	H-3	413-9080
1/4"-28NF	2	H-1	413-9081
1/4"-28NF	2	H-2	413-9082
1/4"-28NF	2	H-3	413-9084
1/4"-40	2	H-3	413-9085
5/16"-18NC	2	H-2	413-4086
5/16"-18NC	2	H-3	413-9088
5/16"-18NC	2	H-5	413-9090
5/16"-18NC	3	H-2	413-9092
5/16"-18NC	3	H-3	413-9094
5/16"-18NC	3	H-5	413-9096
5/16"-18NC	3	H-5	413-9097
5/16"-24NF	2	H-2	413-9098
5/16"-24NF	2	H-3	413-9100
5/16"-24NF	2	H-4	413-9101
5/16"-24NF	3	H-3	413-9102
5/16"-32	2	H-3	413-9103
3/8"-16NC	3	H-2	413-9104
3/8"-16NC	3	H-3	413-9106
3/8"-16NC	3	H-5	413-9108
3/8"-24NF	3	H-4	413-9109
3/8"-24NF	3	H-2	413-9110
3/8"-24NF	3	H-5	413-9111
3/8"-24NF	3	H-3	413-9112
3/8"-32	3	H-3	413-9113
7/16"-14NC	3	H-3	413-9114
7/16"-14NC	3	H-2	413-9115
7/16"-14NC	3	H-5	413-9116
7/16"-14NC	3	H-4	413-9117
7/16"-20NF	3	H-3	413-9118
7/16"-20NF	3	H-2	413-9119
7/16"-20NF	3	H-5	413-9120
7/16"-20NF	3	H-4	413-9121
1/2"-13NC	3	H-3	413-9122
1/2"-13NC	3	H-2	413-9123
1/2"-13NC	3	H-5	413-9124
1/2"-13NC	3	H-4	413-9125
1/2"-20NF	3	H-3	413-9126
1/2"-24	3	H-3	413-9127
1/2"-20NF	3	H-5	413-9128
1/2"-28	3	H-3	413-9129
9/16"-12NC	3	H-3	413-9130
9/16"-12NC	3	H-5	413-9132
9/16"-18NF	3	H-3	413-9134
9/16"-18NF	3	H-5	413-9136
5/8"-11NC	3	H-3	413-9138
5/8"-11NC	3	H-5	413-9140
5/8"-18NF	3	H-3	413-9142
5/8"-18NF	3	H-5	413-9144
11/16"-11NS	3	H-3	413-9146

M35 Cobalt Spiral Point Taps Continued


Tap Size	No. of Flutes	Thread Limits	Order No.
11/16"-16NS	3	H-3	413-9148
3/4"-10NC	3	H-3	413-9150
3/4"-10NC	3	H-5	413-9152
3/4"-16NF	3	H-3	413-9154
3/4"-16NF	3	H-5	413-9156
7/8"-9NC	3	H-2	413-9157
7/8"-9NC	3	H-4	413-9158
7/8"-9NC	4	H-4	413-9160
7/8"-14NF	3	H-2	413-9161
7/8"-14NF	3	H-4	413-9162
7/8"-14NF	3	H-3	413-9163
7/8"-14NF	4	H-4	413-9164
1"-8NC	3	H-3	413-9165
1"-8NC	3	H-4	413-9166
1"-8NC	4	H-4	413-9168
1"-12NF	4	H-4	413-9170
1"-14NS	4	H-4	413-9172
1"-12NF	3	H-3	413-9173
1"-12NF	3	H-4	413-9174
1"-12NF	3	H-5	413-9175
1"-14NS	3	H-4	413-9176
1"-14NS	3	H-3	413-9177
4-36	2	H-2	413-9180
6-40NF	2	H-1	413-9182
8-36NF	2	H-1	413-9184
12-24NC	2	H-1	413-9186
12-28NF	2	H-2	413-9187
14-20NS	2	H-2	413-9188
14-20NS	2	H-3	413-9189
14-24NS	2	H-2	413-9190
14-24NS	2	H-3	413-9191
1/4"-28NF	2	H-4	413-9192
1/2"-20NF	3	H-1	413-9193
1/2"-20NF	3	H-2	413-9194
1/2"-13NC	3	H-1	413-9195

Fluteless X-PressTaps
High Speed Steel

These taps have no flutes or cutting edges. The X-Press Tap cold forms internal threads in ductile metals such as copper, zinc, lead, leaded steels, magnesium, die castings and aluminum. Used where chip removal is a problem.



Size	Thread Length	OAL	Order No.
1-64NC	3/8"	1-11/16"	311-7104
1-72NF	3/8	1-11/16	311-7106
2-64NF	7/16	1-3/4	311-7108
3-48NC	1/2	1-13/16	311-7112
3-56NF	1/2	1-13/16	311-7114
4-40NC	9/16	1-7/8	311-7116
4-48NF	9/16	1-7/8	311-7118
5-40NC	5/8	1-15/16	311-7120
5-44NF	5/8	1-15/16	311-7122
6-32NC	11/16	2	311-7124
6-40NF	11/16	2	311-7126
8-32NC	3/4	2-1/8	311-7128
8-36NF	3/4	2-1/8	311-7130
10-24NC	7/8	2-3/8	311-7132
10-32NF	7/8	2-3/8	311-7134
12-24NC	15/16	2-3/8	311-7136
12-28NF	15/16	2-3/8	311-7138
1/4-20NC	1	2-1/2	311-7148
1/4-28NF	1	2-1/2	311-7150
5/16-18NC	1-1/8	2-23/32	311-7156
5/16-24NF	1-1/8	2-23/32	311-7158
3/8-16NC	1-1/4	2-15/16	311-7160
3/8-24NF	1-1/4	2-15/16	311-7162
7/16-14NC	1-7/16	3-5/32	311-7166
7/16-20NF	1-7/16	3-5/32	311-7168
1/2-13NC	1-21/32	3-3/8	311-7170
1/2-20NF	1-21/32	3-3/8	311-7172
9/16-12NC	1-21/32	3-19/32	311-7176
5/8-11NC	1-13/16	3-13/16	311-7180
5/8-18NF	1-13/16	3-13/16	311-7182
3/4-10NC	2	4-1/4	311-7184
3/4-16NF	2	4-1/4	311-7186

Fluteless Spiral Point Assembly Taps
High Speed Steel

Recommended for High Speed Steel Taping Thin Materials Available while supplies Last.



Size	Thread Length	OAL	Order No.
3-48NC	1/2"	1-13/16"	311-7006
3-56NF	1/2	1-13/16	311-7008
4-40NC	9/16	1-7/8	311-7010
4-48NF	9/16	1-7/8	311-7012
5-40NC	5/8	1-15/16	311-7016
5-44NF	5/8	1-15/16	311-7018
6-32NF	11/16	2	311-7022
6-40NF	11/16	2	311-7024
8-32NC	3/4	2-1/8	311-7028
8-36NF	3/4	2-1/8	311-7030

Size	Thread Length	OAL	Order No.
10-24NC	7/8	2-3/8	311-7034
10-32NF	7/8	2-3/8	311-7036
12-28NF	15/16	2-3/8	311-7040
5/16-24NF	1-1/8	2-23/32	311-7044
3/8-16NC	1-1/4	2-15/16	311-7050
3/8-24NF	1-1/4	2-15/16	311-7052
7/16-14NC	1-7/16	3-5/32	311-7056
7/16-20NF	1-7/16	3-5/32	311-7058
1/2-13NC	1-21/32	3-3/8	311-7062

Spiral Point Taps

HSS, Left Hand, Ground Thread

Spiral point is designed to push the chips ahead of the cutting action, helping to reduce loading in the flutes



Tap Size	No. of Flutes	Thread Limits	Order No.
0-80NF	2	H-1	440-7002
0-80NF	2	H-2	440-7004
1-64NC	2	H-1	440-7006
1-64NC	2	H-2	440-7008
1-72NF	2	H-1	440-7010
1-72NF	2	H-2	440-7012
2-56NC	2	H-2	440-7014
2-64NF	2	H-2	440-7016
3-48NC	2	H-2	440-7018
3-56NF	2	H-2	413-7020
4-36	2	H-1	413-7021
4-40NC	2	H-2	440-7022
4-40NC	2	H-7	440-7024
4-48NF	2	H-2	440-7026
5-40NC	2	H-2	440-7028
5-40NC	2	H-7	440-7030
5-44NF	2	H-2	440-7032
6-32NC	2	H-2	440-7034
6-32NC	2	H-3	440-7036
6-32NC	2	H-7	440-7038
6-40NF	2	H-3	440-7039
6-40NF	2	H-2	440-7040
6-48	2	H-3	440-7041
8-32NC	2	H-2	440-7042
8-32NC	2	H-3	440-7044
8-32NC	3	H-3	440-7046
8-36NF	2	H-2	440-7047
8-36NF	3	H-3	440-7048
8-40	2	H-3	440-7049
10-24NC	2	H-2	440-7050
10-24NC	3	H-3	440-7052
10-24NC	2	H-7	440-7054
10-32NF	2	H-2	440-7056
10-32NF	3	H-2	440-7058
10-32NF	2	H-7	440-7060
10-40	2	H-3	440-7061
12-24NC	3	H-3	440-7062
12-28NF	3	H-3	440-7064
12-32	2	H-3	440-7065
1/4"-20NC	2	H-2	440-7066
1/4"-20NC	2	H-3	440-7068
1/4"-20NC	2	H-5	440-7070
1/4"-20NC	3	H-2	440-7072
1/4"-20NC	3	H-3	440-7074
1/4"-20NC	3	H-5	440-7076
1/4"-24	2	H-3	440-7077
1/4"-28NF	2	H-2	440-7078
1/4"-32	2	H-3	440-7079
1/4"-28NF	2	H-3	440-7080
1/4"-28NF	2	H-2	440-7082
1/4"-28NF	3	H-3	440-7084
1/4"-40	2	H-3	440-7085

Tap Size	No. of Flutes	Thread Limits	Order No.
5/16"-18NC	2	H-2	440-7086
5/16"-18NC	2	H-3	440-7088
5/16"-18NC	2	H-5	440-7090
5/16"-18NC	3	H-2	440-7092
5/16"-18NC	3	H-3	440-7094
5/16"-18NC	3	H-5	440-7096
5/16"-18NC	3	H-5	440-7097
5/16"-24NF	2	H-2	440-7098
5/16"-24NF	2	H-3	440-7100
5/16"-24NF	3	H-3	440-7102
5/16"-32	2	H-3	440-7103
3/8"-16NC	3	H-2	440-7104
3/8"-16NC	3	H-3	440-7106
3/8"-16NC	3	H-5	440-7108
3/8"-24NF	3	H-2	440-7110
3/8"-24NF	3	H-3	440-7112
3/8"-32	3	H-3	440-7113
7/16"-14NC	3	H-3	440-7114
7/16"-14NC	3	H-5	440-7116
7/16"-20NF	3	H-3	440-7118
7/16"-20NF	3	H-5	440-7120
1/2"-13NC	3	H-3	440-7122
1/2"-13NC	3	H-5	440-7124
1/2"-20NF	3	H-3	440-7126
1/2"-24	3	H-3	440-7127
1/2"-20NF	3	H-5	440-7128
1/2"-28	3	H-3	440-7129
9/16"-12NC	3	H-3	440-7130
9/16"-12NC	3	H-5	440-7132
9/16"-18NF	3	H-3	440-7134
9/16"-18NF	3	H-5	440-7136
5/8"-11NC	3	H-3	440-7138
5/8"-11NC	3	H-5	440-7140
5/8"-18NF	3	H-3	440-7142
5/8"-18NF	3	H-5	440-7144
11/16"-11NS	3	H-3	440-7146
11/16"-16NS	3	H-3	440-7148
3/4"-10NC	3	H-3	440-7150
3/4"-10NC	3	H-5	440-7152
3/4"-16NF	3	H-3	440-7154
3/4"-16NF	3	H-5	440-7156
7/8"-9NC	3	H-4	440-7158
7/8"-9NC	4	H-4	440-7160
7/8"-14NF	3	H-4	440-7162
7/8"-14NF	4	H-4	440-7164
1"-8NC	3	H-3	440-7165
1"-8NC	3	H-4	440-7166
1"-8NC	4	H-4	440-7168
1"-12NF	4	H-4	440-7170
1"-14NS	4	H-4	440-7172
1"-12NF	3	H-4	440-7174
1"-14NS	3	H-4	440-7176

Metric Spiral Point Taps

HSS, Ground Thread

Spiral point is designed to push the chips ahead of the cutting action, helping to reduce loading in the flutes



Size	Pitch	No. of Flute	Thread Limit	Order No.
1.60	.35	2	D-2	311-8009
1.60	.35	2	D-3	311-8010
1.80	.35	2	D-2	311-8020
2.0	.40	2	D-3	311-8030
2.0	.45	2	D-2	311-8034
2.2	.45	2	D-2	311-8040
2.50	.45	2	D-2	311-8049
2.50	.45	2	D-3	311-8050
2.60	.45	2	D-2	311-8052
3.0	.35	2	D-3	311-8055
3.0	.50	2	D-3	311-8060
3.0	.60	2	D-2	311-8064
3.5	.50	2	D-4	311-8069
3.5	.60	2	D-4	311-8070
4.0	.50	2	D-4	311-8080
4.0	.70	2	D-4	311-8090
4.0	.75	2	D-4	311-8094
4.0	.80	2	D-4	311-8096
4.5	.75	2	D-4	311-8100
5.0	.50	2	D-4	311-8110
5.0	.75	2		311-8115
5.0	.80	2	D-2	311-8118
5.0	.80	2	D-4	311-8120
5.0	.90	2	D-3	311-8122
5.0	1.0	2	D-4	311-8125
6.0	.75	2	D-3	311-8129
6.0	.75	2	D-4	311-8130
6.0	1.00	2	D-5	311-8140
6.3	1.00	2	D-5	311-8150
7.0	.50	2		311-8151
7.0	.75	2	D-5	311-8152
7.0	1.00	2	D-5	311-8155
7.0	1.00	3		311-8160
8.0	.75	2	D-5	311-8170
8.0	.75	4	D-3	311-8172
8.0	1.00	2	D-3	311-8178
8.0	1.00	2	D-5	311-8180
8.0	1.00	3	D-5	311-8182
8.0	1.25	2	D-3	311-8188
8.0	1.25	2	D-5	311-8190
9.0	.50			311-8191
9.0	1.00	3	D-5	311-8192
9.0	1.25	2	D-5	311-8193
9.0	1.25	3	D-5	311-8194
10.0	1.00	3	D-5	311-8200
10.0	1.00	3	D-6	311-8202
10.0	1.25	3	D-3	311-8209
10.0	1.25	3	D-5	311-8210
10.0	1.50	3	D-6	311-8220
11.0	1.50	3	D-5	311-8222
12.0	1.00	3		311-8229
12.0	1.25	3	D-5	311-8230
12.0	1.5	3	D-6	311-8240
12.0	1.75	3	D-6	311-8250
12.5	1.75	3	D-6	311-8252
14.0	1.00	3	D-5	311-8260
14.0	1.25	3	D-5	311-8270
14.0	1.25	3	D-7	311-8272
14.0	1.50	3	D-3	311-8278
14.0	1.50	3	D-6	311-8280
14.0	1.50	3	D-7	311-8282
14.0	2.00	3	D-7	311-8290
16.0	1.50	3	D-6	311-8300
16.0	2.00	3	D-7	311-8310
18.0	1.00	4	D-4	311-8317
18.0	1.50			311-8318
18.0	2.0			311-8319
18.0	2.50	3	D-7	311-8320
20.0	1.50			311-8328
20.0	2.50	3	D-7	311-8330

Spiral Point Taps-Plug Style

High Speed Steel, Ground Thread

- Designed for greater strength which enables higher speeds and faster production.
- Shearing action of the point pushes chips ahead of the cutting action to reduce loading of the flutes.



Size	No. of Flute	Thread Limit	Order No.
0-80NF	2	H-1	311-9002
0-80NF	2	H-2	311-9004
1-64NC	2	H-1	311-9006
1-64NC	2	H-2	311-9008
1-72NF	2	H-1	311-9010
1-72NF	2	H-2	311-9012
2-56NC	2	H-2	311-9014
2-64NF	2	H-2	311-9016
3-48NC	2	H-2	311-9018
3-56NF	2	H-2	311-9020
4-40NC	2	H-2	311-9022
4-40NC	2	H-7	311-9024
4-48NF	2	H-2	311-9026
5-40NC	2	H-2	311-9028
5-40NC	2	H-7	311-9030
5-44NF	2	H-2	311-9032
6-32NC	2	H-2	311-9034
6-32NC	2	H-3	311-9036
6-32NC	2	H-7	311-9038
6-40NF	2	H-2	311-9040
8-32NC	2	H-2	311-9042
8-32NC	2	H-3	311-9044
8-32NC	2	H-7	311-9046
8-36NF	2	H-2	311-9048
10-24NC	2	H-2	311-9050
10-24NC	2	H-3	311-9052
10-24NC	2	H-7	311-9054
10-32NF	2	H-2	311-9056
10-32NF	2	H-3	311-9058
10-32NF	2	H-7	311-9060
12-24NC	2	H-3	311-9062
12-28NF	2	H-3	311-9064
1/4-20NC	2	H-2	311-9066
1/4-20NC	2	H-3	311-9068
1/4-20NC	2	H-5	311-9070
1/4-20NC	3	H-2	311-9072
1/4-20NC	3	H-3	311-9074
1/4-20NC	3	H-5	311-9076
1/4-28NF	2	H-2	311-9078
1/4-28NF	2	H-3	311-9080
1/4-28NF	3	H-2	311-9082
1/4-28NF	3	H-3	311-9084
5/16-18NC	2	H-2	311-9086
5/16-18NC	2	H-3	311-9088
5/16"-18NC	2	H-5	311-9090
5/16-18NC	3	H-2	311-9092
5/16-18NC	3	H-3	311-9094
5/16-18NC	3	H-5	311-9096
5/16-24NF	2	H2	311-9098
5/16-24NF	2	H3	311-9100
5/16-24NF	3	H3	311-9102
3/8-16NC	3	H2	311-9104
3/8-16NC	3	H3	311-9106

Spiral Point Taps-Plug Style Continued

High Speed Steel, Ground Thread

- Designed for greater strength which enable higher speeds and faster production.
- Shearing action of the point pushes chips ahead of the cutting action to reduce loading of the flutes.



Size	No. of Flute	Thread Limit	Order No.
3/8-16NC	3	H5	311-9108
3/8-24NF	3	H2	311-9110
3/8-24NF	3	H3	311-9112
7/16-14NC	3	H3	311-9114
7/16-14NC	3	H5	311-9116
7/16-20NF	3	H3	311-9118
7/16-20NF	3	H5	311-9120
1/2-13NC	3	H3	311-9122
1/2-13NC	3	H5	311-9124
1/2-20NF	3	H3	311-9126
1/2-20NF	3	H5	311-9128
9/16-12NC	3	H3	311-9130
9/16-12NC	3	H5	311-9132
9/16-18NF	3	H3	311-9134
9/16-18NF	3	H5	311-9136
5/8-11NC	3	H3	311-9138
5/8-11NC	3	H5	311-9140
5/8-18NF	3	H3	311-9142

Size	No. of Flute	Thread Limit	Order No.
5/8-18NF	3	H5	311-9144
11/16-11NS	3	H3	311-9146
11/16-16NS	3	H3	311-9148
3/4-10NC	3	H3	311-9150
3/4-10NC	3	H5	311-9152
3/4-16NF	3	H3	311-9154
3/4-16NF	3	H5	311-9156
7/8-9NC	3	H4	311-9158
7/8-9NC	4	H4	311-9160
7/8-14NF	3	H4	311-9162
7/8-14NF	4	H4	311-9164
1-8NC	3	H4	311-9166
1-8NC	4	H4	311-9168
1-12NF	4	H4	311-9170
1-14NS	4	H4	311-9172
1-12NF	3	H4	311-9174
1-14NS	3	H4	311-9176

+ .005" Oversized Taps

High Speed Steel, Ground Thread

Plug Type



Size	No. of Flute	Order No.	Size	No. of Flute	Order No.	Size	No. of Flute	Order No.	Size	No. of Flute	Order No.
4-40	3	312-7030	1/4-28	4	312-7006	1/2"-13	4	312-7013	3/4-16	4	312-7020
5-40	3	312-7035	5/16-18	4	312-7007	1/2-20	4	312-7014	7/8-9	4	312-7021
6-32	3	312-7001	5/16-24	4	312-7008	9/16-12	4	312-7015	7/8-14	4	312-7022
8-32	4	312-7002	3/8-16	4	312-7009	9/16-18	4	312-7016	1-8	4	312-7023
10-24	4	312-7003	3/8-24	4	312-7010	5/8-11	4	312-7017	1-12	4	312-7024
10-32	4	312-7004	7/16-14	4	312-7011	5/8-18	4	312-7018	1-14	4	312-7025
1/4-20	4	312-7005	7/16-20	4	312-7012	3/4-10	4	312-7019			

Spiral Point Plug Type



Size	No. of Flute	Order No.	Size	No. of Flute	Order No.	Size	No. of Flute	Order No.	Size	No. of Flute	Order No.
4-40	2	312-7102	1/4-28	2	312-7116	1/2-13	3	312-7130	3/4-10	3	312-7142
5-40	2	312-7104	5/16-18	2	312-7118	1/2-20	3	312-7132	3/4-16	3	312-7144
6-32	2	312-7106	5/16-24	2	312-7120	9/16-12	3	312-7134	7/8-9	3	312-7146
8-32	2	312-7108	3/8-16	3	312-7122	9/16-18	3	312-7136	7/8-14	3	312-7148
10-24	2	312-7110	3/8-24	3	312-7124	5/8-11	3	312-7138	1-8	3	312-7150
10-32	2	312-7112	7/16-14	3	312-7126	5/8-18	3	312-7140			
1/4-20	2	312-7114	7/16"-20	3	312-7128						

TiN Coated Hand Taps-Plug Style



Machine Screw Sizes

Size	No. of Flute	Thread Length	Order No.	Size	No. of Flute	Thread Length	Order No.
0-80	2	5/16"	311-1979	8-32	4	3/4"	311-2023
1-64	2	3/8	311-1982	8-36	4	3/4	311-2024
1-72	2	3/8	311-1985	10-24	4	7/8	311-2027
2-56	3	7/16	311-1988	10-32	4	7/8	311-2030
2-64	3	7/16	311-1993	12-24	4	15/16	311-2033
3-48	3	1/2	311-1994	12-28	4	15/16	311-2036
3-56	3	1/2	311-1997				
4-36	3	9/16	311-2001				
4-40	3	5/8	311-2003				
4-48	3	9/16	311-2006				
5-40	3	5/8	311-2009				
5-44	3	5/8	311-2012				
6-32	3	11/16	311-2015				
6-40	3	11/16	311-2018				

Fractional Sizes

Size	No. of Flute	Thread Length	Order No.	Size	No. of Flute	Thread Length	Order No.
1/4"-20	4	1"	311-2039	3/4"-10	4	2"	311-2074
1/4-28	4	1	311-2042	3/4-16	4	2	311-2078
5/16-18	4	1-1/8	311-2045	7/8-9	4	2-7/32	311-2083
5/16-24	4	1-1/8	311-2048	7/8-14	4	2-7/32	311-2084
3/8-16	4	1-1/4	311-2053	1-8	4	2-1/2	311-2087
3/8-24	4	1-1/4	311-2054	1-12	4	2-1/2	311-2090
7/16-14	4	1-7/16	311-2057	1-1/8-7	4	2-9/16	311-2093
7/16-20	4	1-7/16	311-2060	1-1/8-12	4	2-9/16	311-2096
1/2-13	4	1-21/32	311-2063	1-1/4-7	4	2-9/16	311-2099
1/2-20	4	1-21/32	311-2066	1-1/4-12	4	2-9/16	311-2102
9/16-12	4	1-21/32	311-2067	1-3/8-6	6	3	311-2105
9/16-18	4	1-21/32	311-2068	1-3/8-12	6	3	311-2108
5/8-11	4	1-13/16	311-2069	1-1/2-6	4	3	311-2113
5/8-18	4	1-13/16	311-2072	1-1/2-12	6	3	311-2114

Special Thread Hand Taps-Plug

High Speed Steel, Ground Thread



Size	Order No.	Size	Order No.	Size	Order No.	Size	Order No.	Size	Order No.
4-32	311-3500	5/16"-16	311-3720	3/4"-14	311-3806	1-1/4"-20	311-4772	1-7/8"-20	311-4878
4-36	311-3501	5/16-20	311-4606	3/4-18	311-4672	1-1/4-24	311-4773	1-15/16-12	311-4880
4-44	311-3503	5/16-27	311-3722	3/4-20*	311-4674	1-1/4-27	311-3858	1-15/16-16	311-4882
4-56	311-3506	5/16-28	311-3724	3/4-24	311-4676	1-1/4-28	311-3860	1-15/16-18	311-3892
4-60	311-3509	5/16-30	311-3726	3/4-26	311-3808	1-1/4-32	311-4774	1-15/16-20	311-3894
5-32	311-3512	5/16-32*	311-4608	3/4-27	311-4678	1-1/4-40	311-4775	2"-4-1/2	311-4884
5-36	311-3515	5/16-36	311-3728	3/4-28	311-4679	1-5/16-8	311-4776	2"-6	311-4886
5-48	311-3518	5/16-40	311-4610	3/4-32	311-4680	1-5/16-12	311-4778	2"-8	311-4888
5-60	311-3521	5/16-48	311-3730	3/4-36	311-3810	1-5/16-16	311-4780	2"-10	311-4890
6-36	311-3524	5/16-56	311-3732	3/4-40	311-3812	1-5/16-18	311-4782	2"-12	311-4892
6-48	311-3527	3/8-14	311-4612	13/16-10	311-3814	1-5/16-20	311-4783	2"-14	311-4894
6-56	311-3530	3/8-18	311-4614	13/16-12	311-3816	1-5/16-24	311-3862	2"-16	311-4896
6-60	311-3533	3/8-20	311-4616	13/16-16	311-4682	1-5/16-32	311-3864	2"-18	311-3896
8-24	311-3536	3/8-26	311-3734	13/16-18	311-3816	1-3/8-8	311-4784	2"-20	311-4898
8-30	311-3539	3/8-27	311-3736	13/16-20*	311-4684	1-3/8-10	311-4786	2-1/8-8	311-4900
8-40	311-3542	3/8-28	311-3738	13/16-24	311-3818	1-3/8-14	311-4788	2-1/8-10	311-4901
8-48	311-3545	3/8-32*	311-4618	13/16-30	311-3822	1-3/8-16	311-4790	2-1/8-12	311-4902
8-56	311-3548	3/8-36	311-3740	13/16-32	311-4686	1-3/8-18*	311-4792	2-1/8-16	311-4903
8-60	311-3551	3/8-40	311-3742	7/8-10	311-3824	1-3/8-20	311-4794	2-1/8-18	311-4904
8-64	311-3552	3/8-48	311-3744	7/8-12	311-4688	1-3/8-24	311-4795	2-1/8-20	311-4905
8-80	311-3553	3/8-56	311-3746	7/8-16	311-4690	1-3/8-32	311-3866	2-3/16-20	311-4906
10-28	311-3554	7/16-12	311-3748	7/8-18	311-4692	1-3/8-40	311-3868	2-1/4-4-1/2	311-4908
10-30	311-3557	7/16-16	311-3750	7/8-20*	311-4694	1-7/16-8	311-4796	2-1/4-6	311-3898
10-36	311-3560	7/16-18	311-3752	7/8-24	311-3826	1-7/16-12	311-4797	2-1/4-8	311-4910
10-40	311-3563	7/16-24	311-4620	7/8-30	311-3828	1-7/16-16	311-4798	2-1/4-10	311-3900
10-46	311-3566	7/16-27	311-4622	7/8-32	311-3830	1-7/16-18	311-4800	2-1/4-12	311-4912
10-48	311-3569	7/16-28*	311-3754	7/8-36	311-3832	1-7/16-36	311-3870	2-1/4-14	311-4914
10-56	311-3572	7/16-32	311-3756	7/8-40	311-3834	1-1/2-8	311-4802	2-1/4-16	311-4915
10-60	311-3575	7/16-36	311-3758	15/16-8	311-3836	1-1/2-10	311-4804	2-1/4-18	311-4916
10-64	311-3576	7/16-40	311-3760	15/16-12	311-4696	1-1/2-14	311-4805	2-1/4-20	311-4917
10-80	311-3577	7/16-48	311-3762	15/16-16	311-4698	1-1/2-16	311-4806	2-3/8-4-1/2	311-4918
12-30	311-3578	15/32-32	311-4624	15/16-18	311-4699	1-1/2-18*	311-4808	2-3/8-8	311-4920
12-32	311-3581	1/2-12	311-4626	15/16-20*	311-4700	1-1/2-20	311-4810	2-3/8-10	311-3902
12-36	311-3584	1/2-14	311-4628	15/16-24	311-3838	1-1/2-24	311-4811	2-3/8-12	311-4922
12-40	311-3587	1/2-16	311-4630	15/16-27	311-4702	1-1/2-28	311-3872	2-3/8-14	311-4924
12-48	311-3590	1/2-18	311-4632	15/16-30	311-3840	1-1/2-32	311-3874	2-3/8-16	311-3906
12-56	311-3593	1/2-24	311-4634	15/16-32	311-4704	1-9/16-8	311-3876	2-3/8-18	311-3908
1/16-72	311-3596	1/2-27	311-3764	1"-10	311-4706	1-9/16-12	311-4812	2-3/8-20	311-3910
3/32-36	311-3599	1/2-28*	311-4633	1"-16	311-4708	1-9/16-16	311-4813	2-1/2-4	311-4926
3/32-48	311-3602	1/2-30	311-3766	1"-18	311-4710	1-9/16-18	311-4814	2-1/2-6	311-4928
3/32-50	311-3605	1/2-32	311-4636	1"-20*	311-4712	1-9/16-20	311-4816	2-1/2-8	311-4930
3/32-56	311-3608	1/2-36	311-3768	1"-24	311-3842	1-5/8-5	311-3878	2-1/2-12	311-4932
1/8-36	311-3611	1/2-40	311-3770	1"-32	311-4714	1-5/8-5-1/2	311-4818	2-1/2-16	311-4934
1/8-40	311-3614	1/2-48	311-3772	1"-36	311-3844	1-5/8-8	311-4820	2-1/2-18	311-4936
5/32-24	311-3617	9/16-10	311-4638	1"-40	311-3846	1-5/8-10	311-4822	2-1/2-20	311-3914
5/32-26	311-3620	9/16-14	311-3774	1"-48	311-3848	1-5/8-12	311-4824	2-5/8-8	311-4938
5/32-32	311-3623	9/16-16	311-4640	1-1/16-8	311-4716	1-5/8-14	311-4826	2-5/8-12	311-4940
5/32-36	311-3626	9/16-20	311-4642	1-1/16-10	311-4718	1-5/8-16	311-4828	2-5/8-16	311-4942
5/32-38	311-3629	9/16-24*	311-4644	1-1/16-12	311-4720	1-5/8-18	311-4830	2-5/8-18	311-4944
5/32-40	311-3632	9/16-27	311-3776	1-1/16-14	311-4722	1-5/8-20	311-4832	2-3/4-4	311-4946
5/32-64	311-3635	9/16-28	311-3778	1-1/16-16	311-4724	1-5/8-24	311-4834	2-3/4-8	311-4948
3/16-20	311-3638	9/16-32	311-3780	1-1/16-18*	311-4726	1-11/16-12	311-4836	2-3/4-12	311-4950
3/16-24	311-3641	9/16-36	311-3782	1-1/16-20	311-4728	1-11/16-16	311-4837	2-3/4-16	311-4952
3/16-28	311-3644	9/16-40	311-3784	1-1/16-24	311-4730	1-11/16-18	311-4838	2-3/4-18	311-4954
3/16-32	311-3647	5/8-10	311-3786	1-1/16-32	311-4732	1-11/16-20	311-4839	2-7/8-8	311-4956
3/16-36	311-3650	5/8-12	311-4646	1-1/8-8	311-4734	1-11/16-36	311-3880	2-7/8-12	311-4958
7/32-24	311-3653	5/8-14	311-3788	1-1/8-10	311-4736	1-3/4-5	311-4840	2-7/8-14	311-3916
7/32-28	311-3656	5/8-16	311-4648	1-1/8-14	311-3850	1-3/4-6	311-4842	2-7/8-16	311-4960
7/32-32	311-3659	5/8-20	311-4650	1-1/8-16	311-4738	1-3/4-8	311-4844	2-7/8-18	311-3918
7/32-40	311-3662	5/8-24*	311-4652	1-1/8-18*	311-4740	1-3/4-10	311-4846	3"-4	311-4962
7/32-48	311-3665	5/8-27	311-3790	1-1/8-20	311-3852	1-3/4-12	311-4848	3"-8	311-4964
1/4-14	311-3668	5/8-28	311-3791	1-1/8-24	311-3854	1-3/4-14	311-3884	3"-12	311-4966
1/4-16	311-3671	5/8-32	311-4654	1-1/8-27	311-3856	1-3/4-16	311-4850	3"-16	311-3920
1/4-18	311-3674	5/8-36	311-4656	1-1/8-32	311-4742	1-3/4-18	311-4852	3"-18	311-3922
1/4-24	311-4600	5/8-40	311-3792	1-3/16-8	311-4744	1-3/4-20	311-4854	3-1/4-4	311-4968
1/4-27	311-3700	5/8-48	311-3794	1-3/16-10	311-4746	1-3/4-24	311-4856	3-1/4-8	311-4970
1/4-30	311-3702	11/16-11	311-4658	1-3/16-12	311-4748	1-13/16-8	311-4858	3-1/4-12	311-4972
1/4-32*	311-4602	11/16-12	311-3796	1-3/16-14	311-4750	1-13/16-16	311-4860	3-1/2-4	311-4974
1/4-36	311-3704	11/16-16	311-4660	1-3/16-16	311-4752	1-13/16-18	311-4862	3-1/2-8	311-4976
1/4-40	311-4604	11/16-18	311-4662	1-3/16-18*	311-4754	1-13/16-20	311-4863	3-1/2-12	311-4978
1/4-48	311-3706	11/16-20	311-4664	1-3/16-20	311-4756	1-13/16-28	311-3890	3-3/4-4	311-4980
1/4-56	311-3708	11/16-24*	311-4666	1-3/16-24	311-4758	1-7/8-5	311-4864	3-3/4-8	311-3924
1/4-60	311-3710	11/16-27	311-3798	1-3/16-32	311-4760	1-7/8-7	311-4866	3-3/4-12	311-4982
1/4-80	311-3711	11/16-28	311-3800	1-1/4-8	311-4762	1-7/8-8	311-4868	4"-4	311-3926
9/32-18	311-3712	11/16-32	311-4668	1-1/4-10	311-4764	1-7/8-10	311-4870	4"-8	311-4984
9/32-24	311-3714	11/16-36	311-3802	1-1/4-14	311-4766	1-7/8-12	311-4872	4"-12	311-4986
9/32-32	311-3716	11/16-40	311-3804	1-1/4-16	311-4768	1-7/8-16	311-4874	4"-16	311-3928
5/16-12	311-3718	3/4-12	311-4670	1-1/4-18*	311-4770	1-7/8-18	311-4876		

* NEF Thread

Special Thread Hand Taps-Bottoming

High Speed Steel, Ground Thread

* NEF Thread



Size	Order No.	Size	Order No.	Size	Order No.	Size	Order No.	Size	Order No.
4-32	313-3500	5/16"-16	313-3720	3/4"-14	313-3806	1-1/4"-20	313-4772	1-7/8"-20	313-4878
4-36	313-3501	5/16-20	313-4606	3/4-18	313-4672	1-1/4-24	313-4773	1-15/16-12	313-4880
4-44	313-3503	5/16-27	313-3722	3/4-20*	313-4674	1-1/4-27	313-3858	1-15/16-16	313-4882
4-56	313-3506	5/16-28	313-3724	3/4-24	313-4676	1-1/4-28	313-3860	1-15/16-18	313-3892
4-60	313-3509	5/16-30	313-3726	3/4-26	313-3808	1-1/4-32	313-4774	1-15/16-20	313-3894
5-32	313-3512	5/16-32*	313-4608	3/4-27	313-4678	1-1/4-40	313-4775	2"-4-1/2	313-4884
5-36	313-3515	5/16-36	313-3728	3/4-28	313-4679	1-5/16-8	313-4776	2"-6	313-4886
5-48	313-3518	5/16-40	313-4610	3/4-32	313-4680	1-5/16-12	313-4778	2"-8	313-4888
5-60	313-3521	5/16-48	313-3730	3/4-36	313-3810	1-5/16-16	313-4780	2"-10	313-4890
6-36	313-3524	5/16-56	313-3732	3/4-40	313-3812	1-5/16-18	313-4782	2"-12	313-4892
6-48	313-3527	3/8-14	313-4612	13/16-10	313-3814	1-5/16-20	313-4783	2"-14	313-4894
6-56	313-3530	3/8-18	313-4614	13/16-12	313-3816	1-5/16-24	313-3862	2"-16	313-4896
6-60	313-3533	3/8-20	313-4616	13/16-16	313-4682	1-5/16-32	313-3864	2"-18	313-3896
8-24	313-3536	3/8-26	313-3734	13/16-18	313-3816	1-3/8-8	313-4784	2"-20	313-4898
8-30	313-3539	3/8-27	313-3736	13/16-20*	313-4684	1-3/8-10	313-4786	2-1/8-8	313-4900
8-40	313-3542	3/8-28	313-3738	13/16-24	313-3818	1-3/8-14	313-4788	2-1/8-10	313-4901
8-48	313-3545	3/8-32*	313-4618	13/16-30	313-3822	1-3/8-16	313-4790	2-1/8-12	313-4902
8-56	313-3548	3/8-36	313-3740	13/16-32	313-4686	1-3/8-18*	313-4792	2-1/8-16	313-4903
8-60	313-3551	3/8-40	313-3742	7/8-10	313-3824	1-3/8-20	313-4794	2-1/8-18	313-4904
8-64	313-3552	3/8-48	313-3744	7/8-12	313-4688	1-3/8-24	313-4795	2-1/8-20	313-4905
8-80	313-3553	3/8-56	313-3746	7/8-16	313-4690	1-3/8-32	313-3866	2-3/16-20	313-4906
10-28	313-3554	7/16-12	313-3748	7/8-18	313-4692	1-3/8-40	313-3868	2-1/4-4-1/2	313-4908
10-30	313-3557	7/16-16	313-3750	7/8-20*	313-4694	1-7/16-8	313-4796	2-1/4-6	313-3898
10-36	313-3560	7/16-18	313-3752	7/8-24	313-3826	1-7/16-12	313-4797	2-1/4-8	313-4910
10-40	313-3563	7/16-24	313-4620	7/8-30	313-3828	1-7/16-16	313-4798	2-1/4-10	313-3900
10-46	313-3566	7/16-27	313-4622	7/8-32	313-3830	1-7/16-18	313-4800	2-1/4-12	313-4912
10-48	313-3569	7/16-28*	313-3754	7/8-36	313-3832	1-7/16-36	313-3870	2-1/4-14	313-4914
10-56	313-3572	7/16-32	313-3756	7/8-40	313-3834	1-1/2-8	313-4802	2-1/4-16	313-4915
10-60	313-3575	7/16-36	313-3758	15/16-8	313-3836	1-1/2-10	313-4804	2-1/4-18	313-4916
10-64	313-3576	7/16-40	313-3760	15/16-12	313-4696	1-1/2-14	313-4805	2-1/4-20	313-4917
10-80	313-3577	7/16-48	313-3762	15/16-16	313-4698	1-1/2-16	313-4806	2-3/8-4-1/2	313-4918
12-30	313-3578	15/32-32	313-4624	15/16-18	313-4699	1-1/2-18*	313-4808	2-3/8-8	313-4920
12-32	313-3581	1/2-12	313-4626	15/16-20*	313-4700	1-1/2-20	313-4810	2-3/8-10	313-3902
12-36	313-3584	1/2-14	313-4628	15/16-24	313-3838	1-1/2-24	313-4811	2-3/8-12	313-4922
12-40	313-3587	1/2-16	313-4630	15/16-27	313-4702	1-1/2-28	313-3872	2-3/8-14	313-4924
12-48	313-3590	1/2-18	313-4632	15/16-30	313-3840	1-1/2-32	313-3874	2-3/8-16	313-3906
12-56	313-3593	1/2-24	313-4634	15/16-32	313-4704	1-9/16-8	313-3876	2-3/8-18	313-3908
1/16-72	313-3596	1/2-27	313-3764	1"-10	313-4706	1-9/16-12	313-4812	2-3/8-20	313-3910
3/32-36	313-3599	1/2-28*	313-4633	1"-16	313-4708	1-9/16-16	313-4813	2-1/2-4	313-4926
3/32-48	313-3602	1/2-30	313-3766	1"-18	313-4710	1-9/16-18	313-4814	2-1/2-6	313-4928
3/32-50	313-3605	1/2-32	313-4636	1"-20*	313-4712	1-9/16-20	313-4816	2-1/2-8	313-4930
3/32-56	313-3608	1/2-36	313-3768	1"-24	313-3842	1-5/8-5	313-3878	2-1/2-12	313-4932
1/8-36	313-3611	1/2-40	313-3770	1"-32	313-4714	1-5/8-5-1/2	313-4818	2-1/2-16	313-4934
1/8-40	313-3614	1/2-48	313-3772	1"-36	313-3844	1-5/8-8	313-4820	2-1/2-18	313-4936
5/32-24	313-3617	9/16-10	313-4638	1"-40	313-3846	1-5/8-10	313-4822	2-1/2-20	313-3914
5/32-26	313-3620	9/16-14	313-3774	1"-48	313-3848	1-5/8-12	313-4824	2-5/8-8	313-4938
5/32-32	313-3623	9/16-16	313-4640	1-1/16-8	313-4716	1-5/8-14	313-4826	2-5/8-12	313-4940
5/32-36	313-3626	9/16-20	313-4642	1-1/16-10	313-4718	1-5/8-16	313-4828	2-5/8-16	313-4942
5/32-38	313-3629	9/16-24*	313-4644	1-1/16-12	313-4720	1-5/8-18	313-4830	2-5/8-18	313-4944
5/32-40	313-3632	9/16-27	313-3776	1-1/16-14	313-4722	1-5/8-20	313-4832	2-3/4-4	313-4946
5/32-64	313-3635	9/16-28	313-3778	1-1/16-16	313-4724	1-5/8-24	313-4834	2-3/4-8	313-4948
3/16-20	313-3638	9/16-32	313-3780	1-1/16-18*	313-4726	1-11/16-12	313-4836	2-3/4-12	313-4950
3/16-24	313-3641	9/16-36	313-3782	1-1/16-20	313-4728	1-11/16-16	313-4837	2-3/4-16	313-4952
3/16-28	313-3644	9/16-40	313-3784	1-1/16-24	313-4730	1-11/16-18	313-4838	2-3/4-18	313-4954
3/16-32	313-3647	5/8-10	313-3786	1-1/16-32	313-4732	1-11/16-20	313-4839	2-7/8-8	313-4956
3/16-36	313-3650	5/8-12	313-4646	1-1/8-8	313-4734	1-11/16-36	313-3880	2-7/8-12	313-4958
7/32-24	313-3653	5/8-14	313-3788	1-1/8-10	313-4736	1-3/4-5	313-4840	2-7/8-14	313-3916
7/32-28	313-3656	5/8-16	313-4648	1-1/8-14	313-3850	1-3/4-6	313-4842	2-7/8-16	313-4960
7/32-32	313-3659	5/8-20	313-4650	1-1/8-16	313-4738	1-3/4-8	313-4844	2-7/8-18	313-3918
7/32-40	313-3662	5/8-24*	313-4652	1-1/8-18*	313-4740	1-3/4-10	313-4846	3"-4	313-4962
7/32-48	313-3665	5/8-27	313-3790	1-1/8-20	313-3852	1-3/4-12	313-4848	3"-8	313-4964
1/4-14	313-3668	5/8-28	313-3791	1-1/8-24	313-3854	1-3/4-14	313-3884	3"-12	313-4966
1/4-16	313-3671	5/8-32	313-4654	1-1/8-27	313-3856	1-3/4-16	313-4850	3"-16	313-3920
1/4-18	313-3674	5/8-36	313-4656	1-1/8-32	313-4742	1-3/4-18	313-4852	3"-18	313-3922
1/4-24	313-4600	5/8-40	313-3792	1-3/16-8	313-4744	1-3/4-20	313-4854	3-1/4-4	313-4968
1/4-27	313-3700	5/8-48	313-3794	1-3/16-10	313-4746	1-3/4-24	313-4856	3-1/4-8	313-4970
1/4-30	313-3702	11/16-11	313-4658	1-3/16-12	313-4748	1-13/16-8	313-4858	3-1/4-12	313-4972
1/4-32*	313-4602	11/16-12	313-3796	1-3/16-14	313-4750	1-13/16-16	313-4860	3-1/2-4	313-4974
1/4-36	313-3704	11/16-16	313-4660	1-3/16-16	313-4752	1-13/16-18	313-4862	3-1/2-8	313-4976
1/4-40	313-4604	11/16-18	313-4662	1-3/16-18*	313-4754	1-13/16-20	313-4863	3-1/2-12	313-4978
1/4-48	313-3706	11/16-20	313-4664	1-3/16-20	313-4756	1-13/16-28	313-3890	3-3/4-4	313-4980
1/4-56	313-3708	11/16-24*	313-4666	1-3/16-24	313-4758	1-7/8-5	313-4864	3-3/4-8	313-3924
1/4-60	313-3710	11/16-27	313-3798	1-3/16-32	313-4760	1-7/8-7	313-4866	3-3/4-12	313-4982
1/4-80	313-3711	11/16-28	313-3800	1-1/4-8	313-4762	1-7/8-8	313-4868	4"-4	313-3926
9/32-18	313-3712	11/16-32	313-4668	1-1/4-10	313-4764	1-7/8-10	313-4870	4"-8	313-4984
9/32-24	313-3714	11/16-36	313-3802	1-1/4-14	313-4766	1-7/8-12	313-4872	4"-12	313-4986
9/32-32	313-3716	11/16-40	313-3804	1-1/4-16	313-4768	1-7/8-16	313-4874	4"-16	313-3928
5/16-12	313-3718	3/4-12	313-4670	1-1/4-18*	313-4770	1-7/8-18	313-4876		

Left Hand Taps-Plug Style

Carbon Steel, Ground Thread

- Use for hand and machine tapping in a wide variety of materials to create left hand threaded holes.



Size	Carbon Steel Order No.	Size	Carbon Steel Order No.	Size	Carbon Steel Order No.	Size	Carbon Steel Order No.
0-80	312-5002	10-24	312-5152	9/16-12	312-5302	1-1/4-12	312-5452
1-64	312-5012	10-32	312-5162	9/16-18	312-5312	1-3/8-6	312-5462
1-72	312-5022	12-24	312-5172	5/8-11	312-5322	1-3/8-12	312-5472
2-56	312-5032	12-28	312-5182	5/8-18	312-5332	1-1/2-6	312-5482
2-64	312-5042	14-24	312-5192	3/4-10	312-5342	1-1/2-12	312-5492
3-48	312-5052	1/4-20	312-5202	3/4-16	312-5352	1-5/8-5	312-5502
3-56	312-5062	1/4-28	312-5212	7/8-9	312-5362	1-3/4-5	312-5512
4-40	312-5072	5/16-18	312-5222	7/8-14	312-5372	2-6	312-5522
4-48	312-5082	5/16-24	312-5232	1-8	312-5382	2-1/4-4	312-5532
5-40	312-5092	3/8-16	312-5242	1-12	312-5392	2-1/4-4-1/2	312-5542
5-44	312-5102	3/8-24	312-5252	1-14	312-5402	2-1/4-8	312-5552
6-32	312-5112	7/16-14	312-5262	1-1/8-7	312-5412	2-1/2-4	312-5562
6-40	312-5122	7/16-20	312-5272	1-1/8-12	312-5422	2-1/2-6	312-5572
8-32	312-5132	1/2-13	312-5282	1-1/4-7	312-5432		
8-36	312-5142	1/2"-20	312-5292	1-1/4-10	312-5442		

Screw Thread Insert Taps (S.T.I.)

High Speed Steel, Ground Thread, Straight Flute



Tap Size	Plug Type Order No.	Bottom Type Order No.	Tap Size	Plug Type Order No.	Bottom Type Order No.	Tap Size	Plug Type Order No.	Bottom Type Order No.	Tap Size	Plug Type Order No.	Bottom Type Order No.
2-56 NC	311-9200	311-9300	5/16-18 NC	311-9218	311-9318	3-56 NF	311-9250	311-9350	1/2-20 NF	311-9268	311-9368
3-48 NC	311-9202	311-9302	3/8-16 NC	311-9220	311-9320	4-48 NF	311-9252	311-9352	9/16-18 NF	311-9270	311-9370
4-40NC	311-9204	311-9304	7/16-14 NC	311-9222	311-9322	6-40 NF	311-9254	311-9354	5/8-18 NF	311-9272	311-9372
5-40 NC	311-9206	311-9306	1/2-13 NC	311-9224	311-9324	8-36 NF	311-9256	311-9356	3/4-16 NF	311-9274	311-9374
6-32 NC	311-9208	311-9308	9/16-12 NC	311-9226	311-9326	10-32 NF	311-9258	311-9358	7/8-14 NF	311-9276	311-9376
8-32 NC	311-9210	311-9310	5/8-11 NC	311-9228	311-9328	1/4-28 NF	311-9260	311-9360	1-12 NF	311-9278	311-9378
10-24 NC	311-9212	311-9312	3/4-10 NC	311-9230	311-9330	5/16-24 NF	311-9262	311-9362	1-14 NF	311-9280	311-9380
12-24 NC	311-9214	311-9314	7/8-9 NC	311-9232	311-9332	3/8-24 NF	311-9264	311-9364			
1/4-20 NC	311-9216	311-9316	1-8 NC	311-9234	311-9334	7/16-20 NF	311-9266	311-9366			

Metric Hand Taps & Sets

High Speed Steel, Ground Thread



Size	Bottoming Order No.	Taper Order No.	3pc Set Order No.	Size	Bottoming Order No.	Taper Order No.	3pc Set Order No.
2.0x.20mm	311-4003	311-4001	311-4004	10.0x1.50mm	311-4303	311-4301	311-4304
2.0x.25mm	311-4013	311-4011	311-4014	11.0x1.00mm	311-4313	311-4311	311-4314
2.0x.40mm	311-4023	311-4021	311-4024	11.0x1.50mm	311-4323	311-4321	311-4324
2.0x.45mm	311-4033	311-4031	311-4034	12.0x1.25mm	311-4333	311-4331	311-4334
2.2x.45mm	311-4043	311-4041	311-4044	12.0x1.50mm	311-4343	311-4341	311-4344
2.5x.45mm	311-4053	311-4051	311-4054	12.0x1.75mm	311-4353	311-4351	311-4354
3.0x.35mm	311-4063	311-4061	311-4064	14.0x1.25mm	311-4363	311-4361	311-4364
3.0x.50mm	311-4073	311-4071	311-4074	14.0x1.50mm	311-4373	311-4371	311-4374
3.5x.35mm	311-4083	311-4081	311-4084	14.0x2.00mm	311-4383	311-4381	311-4384
3.5x.60mm	311-4093	311-4091	311-4094	16.0x1.00mm	311-4393	311-4391	311-4394
4.0x.50mm	311-4103	311-4101	311-4104	16.0x1.50mm	311-4403	311-4401	311-4404
4.0x.70mm	311-4113	311-4111	311-4114	16.0x2.00mm	311-4413	311-4411	311-4414
4.0x.75mm	311-4123	311-4121	311-4124	18.0x1.50mm	311-4423	311-4421	311-4424
4.5x.75mm	311-4133	311-4131	311-4134	18.0x2.00mm	311-4433	311-4431	311-4434
5.0x.50mm	311-4143	311-4141	311-4144	18.0x2.50mm	311-4443	311-4441	311-4444
5.0x.90mm	311-4153	311-4151	311-4154	20.0x2.00mm	311-4453	311-4451	311-4454
5.0x.80mm	311-4163	311-4161	311-4164	20.0x2.50mm	311-4463	311-4461	311-4464
5.5x.90mm	311-4173	311-4171	311-4174	22.0x2.00mm	311-4473	311-4471	311-4474
6.0x.50mm	311-4183	311-4181	311-4184	22.0x2.50mm	311-4483	311-4481	311-4484
6.0x.75mm	311-4193	311-4191	311-4194	24.0x2.00mm	311-4493	311-4491	311-4494
6.0x1.00mm	311-4203	311-4201	311-4204	24.0x3.00mm	311-4503	311-4501	311-4504
7.0x.75mm	311-4213	311-4211	311-4214	26.0x1.50mm	311-4513	311-4511	311-4514
7.0x1.00mm	311-4223	311-4221	311-4224	28.0x2.00mm	311-4523	311-4521	311-4524
8.0x1.00mm	311-4233	311-4231	311-4234	30.0x2.00mm	311-4533	311-4531	311-4534
8.0x1.25mm	311-4243	311-4241	311-4244	30.0x3.50mm	311-4543	311-4541	311-4544
9.0x1.00mm	311-4253	311-4251	311-4254	33.0x2.00mm	311-4553	311-4551	311-4554
9.0x1.25mm	311-4263	311-4261	311-4264	39.0x3.00mm	311-4563	311-4561	311-4564
10.0x1.00mm	311-4273	311-4271	311-4274	42.0x2.00mm	311-4573	311-4571	311-4574
10.0x1.25mm	311-4283	311-4281	311-4284	48.0x2.00mm	311-4583	311-4581	311-4584
10.0x1.00mm	311-4293	311-4291	311-4294				

Metric Hand Taps-Plug Style

High Speed Steel, Ground Thread



Size	Thread Limits	No. of Flute	Order No.	Size	Thread Limits	No. of Flute	Order No.	Size	Thread Limits	No. of Flute	Order No.
1.50x0.35mm	D-1	2	411-2004	8.00x1.25mm	D-3	4	411-2114	22.00x1.00mm	D-6	4	411-2244
1.60x0.35mm	D-1	2	411-2006	8.00x1.25mm	D-5	4	411-2116	22.00x1.50mm	D-3	4	411-2246
1.60x0.35mm	D-3	2	411-2008	9.00x1.25mm	D-4	4	411-2122	22.00x1.50mm	D-6	4	411-2248
1.80x0.35mm	D-1	2	411-2010	10.00x0.75mm	D-5	4	411-2128	22.00x2.00mm	D-6	4	411-2249
1.80x0.35mm	D-2	2	411-2012	10.00x1.00mm	D-5	4	411-2130	22.00x2.50mm	D-4	4	411-2250
1.80x0.35mm	D-3	2	411-2014	10.00x1.25mm	D-3	4	411-2132	22.00x2.50mm	D-6	4	411-2252
2.00x0.40mm	D-1	3	411-2018	10.00x1.25mm	D-5	4	411-2134	22.00x2.50mm	D-7	4	411-2254
2.00x0.40mm	D-3	3	411-2020	10.00x1.50mm	D-3	4	411-2136	24.00x1.00mm	D-7	4	411-2256
2.00x0.45mm	D-2	3	411-2022	10.00x1.50mm	D-6	4	411-2138	24.00x1.50mm	D-7	4	411-2258
2.20x0.45mm	D-1	3	411-2024	11.00x1.00mm	D-3	4	411-2142	24.00x2.00mm	D-4	4	411-2260
2.20x0.45mm	D-2	3	411-2026	11.00x1.50mm	D-5	4	411-2146	24.00x2.00mm	D-7	4	411-2262
2.20x0.45mm	D-3	3	411-2028	11.00x1.50mm	D-6	4	411-2147	24.00x3.00mm	D-4	4	411-2264
2.30x0.40mm	D-3	3	411-2030	12.00x1.00mm	D-5	4	411-2150	24.00x3.00mm	D-8	4	411-2266
2.50x0.45mm	D-1	3	411-2032	12.00x1.25mm	D-3	4	411-2152	27.00x1.50mm	D-7	4	411-2272
2.50x0.45mm	D-3	3	411-2034	12.00x1.25mm	D-5	4	411-2154	27.00x2.00mm	D-5	4	411-2274
2.60x0.45mm	D-2	3	411-2036	12.00x1.50mm	D-5	4	411-2156	27.00x2.00mm	D-7	4	411-2276
2.60x0.45mm	D-3	3	411-2037	12.00x1.75mm	D-3	4	411-2158	27.00x3.00mm	D-8	4	411-2278
3.00x0.50mm	D-1	3	411-2040	12.00x1.75mm	D-6	4	411-2160	27.00x3.00mm	D-9	4	411-2280
3.00x0.50mm	D-3	3	411-2042	14.00x1.00mm	D-6	4	411-2178	30.00x1.50mm	D-7	4	411-2284
3.00x0.60mm	D-3	3	411-2046	14.00x1.25mm	H-4	4	411-2180	30.00x2.00mm	D-5	4	411-2286
3.50x0.60mm	D-1	3	411-2050	14.00x1.25mm	D-6	4	411-2181	30.00x2.00mm	D-7	4	411-2288
3.50x0.60mm	D-4	3	411-2052	14.00x1.50mm	D-3	4	411-2182	30.00x3.50mm	D-5	4	411-2292
4.00x0.50mm	D-4	4	411-2054	14.00x1.50mm	D-6	4	411-2184	30.00x3.50mm	D-9	4	411-2294
4.00x0.70mm	D-1	4	411-2056	14.00x2.00mm	D-3	4	411-2188	32.00x2.00mm	D-7	4	411-2296
4.00x0.70mm	D-4	4	411-2058	14.00x2.00mm	D-7	4	411-2190	32.00x2.00mm	D-7	6	411-2298
4.00x0.75mm	D-4	4	411-2060	16.00x1.00mm	D-6	4	411-2198	33.00x2.00mm	D-5	4	411-2300
4.50x0.75mm	D-2	4	411-2066	16.00x1.50mm	D-3	4	411-2202	33.00x2.00mm	D-7	6	411-2301
4.50x0.75mm	D-4	4	411-2068	16.00x1.50mm	D-6	4	411-2204	33.00x3.50mm	D-5	4	411-2304
5.00x0.50mm	D-4	4	411-2070	16.00x2.00mm	D-4	4	411-2206	33.00x3.50mm	D-9	4	411-2306
5.00x0.8mm	D-2	4	411-2076	16.00x2.00mm	D-7	4	411-2208	36.00x3.00mm	D-5	4	411-2308
5.00x0.8mm	D-4	4	411-2078	18.00x1.00mm	D-6	4	411-2214	36.00x3.00mm	D-8	4	411-2310
5.00x0.90mm	D-3	4	411-2080	18.00x1.50mm	D-3	4	411-2218	36.00x3.60mm	D-9	4	411-2312
6.00x0.50mm	D-4	4	411-2084	18.00x1.50mm	H-4	4	411-2220	36.00x4.00mm	D-5	4	411-2314
6.00x0.75mm	D-3	4	411-2086	18.00x1.50mm	D-6	4	411-2222	36.00x4.00mm	D-9	4	411-2316
6.00x0.75mm	D-4	4	411-2087	18.00x2.00mm	D-6	4	411-2223	38.00x4.00mm	D-9	4	411-2317
6.00x1.00mm	D-3	4	411-2088	18.00x2.50mm	D-4	4	411-2224	39.00x3.00mm	D-6	4	411-2318
6.00x1.00mm	D-5	4	411-2090	18.00x2.50mm	D-7	4	411-2226	39.00x3.00mm	D-8	6	411-2320
6.30x1.00mm	D-5	4	411-2094	20.00x1.00mm	D-7	4	411-2230	39.00x4.00mm	D-6	4	411-2322
7.00x1.00mm	D-3	4	411-2100	20.00x1.50mm	D-3	4	411-2234	39.00x4.00mm	D-9	4	411-2324
7.00x1.00mm	D-5	4	411-2102	20.00x1.50mm	D-6	4	411-2236	42.00x4.5mm	D-1	6	411-2326
8.00x0.75mm	D-4	4	411-2108	20.00x2.00mm	D-6	4	411-2238	45.00x4.50mm	D-1	6	411-2328
8.00x1.00mm	D-3	4	411-2110	20.00x2.50mm	D-4	4	411-2240	48.00x4.50mm	D-1	6	411-2330
8.00x1.00mm	D-5	4	411-2112	20.00x2.50mm	D-7	4	411-2242	48.00x5.00mm	D-1	6	411-2332

Right & Left Hand Acme Taps

High Speed Steel, Ground Thread



Right Hand

Size	Order No.
3/8"-12	312-9001
7/16-12	312-9002
1/2-10	312-9003
5/8-8	312-9004
3/4-6	312-9005
1-5	312-9007
1-1/8-5	312-9008
1-1/4-5	312-9009
1-3/8-4	312-9010
1-1/2-4	312-9011
1-3/4-4	312-9012

Left Hand

Size	Order No.
5/8"-8	312-9020
3/4-6	312-9021
7/8-6	312-9022
1-5	312-9023
1-1/8-5	312-9024
1-1/4-5	312-9025

Single Pass Acme Taps

High Speed Steel, Ground Thread, Tandem Style



Size	Thread Length	Overall length	Max. Depth of Bronze or Steel Nut	Max. Depth of Brass or Cast Iron Nut	Order No.
1/2"-10	2-9/16"	5"	1"	1-1/2"	312-0306
5/8-8	3-3/16	6-1/4	1-1/4	1-7/8	312-0308
3/4-6	4-5/16	7-15/16	1-1/2	2-1/4	312-0310
7/8-6	4-3/8	8-5/8	1-3/4	2-5/8	312-0312
1-5	5-1/4	10-1/8	2	3	312-0314
1-1/8-5	5-1/4	10-3/4	2-1/4	3-3/8	312-0316
1-1/4-5	5-1/4	11-1/8	2-1/2	3-3/4	312-0318
1-3/8-4	5-7/8	12-1/4	2-3/4	4-1/8	312-0320
1-1/2-4	5-7/8	12-5/8	3	4-1/2	312-0322

Pulley Taps



Size	No. of Flute	H limit	Overall Length	Order No.	Size	No. of Flute	H limit	Overall Length	Order No.	Size	No. of Flute	H limit	Overall Length	Order No.
1/4"-20NC	4	H-3	4"	312-0402	1/2-20NF	4	H-3	6	312-0532	7/8-9NC	4	H-4	8	312-0628
5/16-18NC	4	H-3	4	312-0404	5/8-11NC	4	H-3	6	312-0534	1-8NC	4	H-4	8	312-0630
3/8-16NC	4	H-3	4	312-0406	5/8-18NF	4	H-3	6	312-0536	3/8-16NC	4	H-3	10	312-0702
6-32NC	3	H-3	6	312-0502	3/4-10NC	4	H-3	6	312-0538	3/8-24NF	4	H-3	10	312-0704
6-40NF	3	H-2	6	312-0504	7/8-9NC	4	H-4	6	312-0540	7/16-14NC	4	H-3	10	312-0706
8-32NC	3	H-3	6	312-0506	1/4-20NC	4	H-3	8	312-0602	7/16-20NF	4	H-3	10	312-0708
8-36NF	3	H-3	6	312-0508	1/4-28NF	4	H-3	8	312-0604	1/2-13NC	4	H-3	10	312-0709
10-24NC	3	H-3	6	312-0510	5/16-18NC	4	H-3	8	312-0606	5/8-11NC	4	H-3	10	312-0710
10-32NF	3	H-3	6	312-0512	5/16"-24NF	4	H-3	8	312-0608	3/4-10NC	4	H-3	10	312-0712
1/4-20NC	4	H-3	6	312-0514	3/8-16NC	4	H-3	8	312-0610	7/8-9NC	4	H-4	10	312-0714
1/4-28NF	4	H-3	6	312-0516	3/8-24NF	4	H-3	8	312-0612	3/8-16NC	4	H-3	12	312-0802
5/16-18NC	4	H-3	6	312-0518	7/16-14NC	4	H-3	8	312-0614	7/16-14NC	4	H-3	12	312-0804
5/16-24NF	4	H-3	6	312-0520	7/16-20NF	4	H-3	8	312-0616	1/2-13NC	4	H-3	12	312-0806
3/8-16NC	4	H-3	6	312-0522	1/2-13NC	4	H-3	8	312-0618	5/8-11NC	4	H-3	12	312-0808
3/8-24NF	4	H-3	6	312-0524	1/2-20NF	4	H-3	8	312-0620	5/8-18NF	4	H-3	12	312-0810
7/16-14NC	4	H-3	6	312-0526	5/8-11NC	4	H-3	8	312-0622	3/4-10NC	4	H-3	12	312-0812
7/16-20NF	4	H-3	6	312-0528	5/8-18NF	4	H-3	8	312-0624	1-8NC	4	H-4	12	312-0814
1/2-13NC	4	H-3	6	312-0530	3/4-10NC	4	H-3	8	312-0626					

Single Pass Combination Drill Taps

High Speed Steel, Ground Thread



Size	Limit	Thread Length	Drill Length	Drill Size	Overall Length	H.S.S Order No.	TiN-Coated Order No.	Size	Limit	Thread Length	Drill Length	Drill Size	Overall Length	H.S.S Order No.	TiN-Coated Order No.
3x.5mm	D-3	13/32"	.1015"	9/32"	1-15/16"	312-0162	312-0262	6x1.00mm	D-5"	25/32"	.2030"	17/32"	2-1/2"	312-0172	312-0272
3.5x.6mm	D-4	7/16	.1180	5/16	2	312-0164	312-0264	7x1.00mm	D-5	15/16	.2420	11/16	2-27/32	312-0174	312-0274
4x.7mm	D-4	1/2	.1340	3/8	2-1/8	312-0166	312-0266	8x1.25mm	D-5	15/16	.2735	11/16	2-27/32	312-0176	312-0276
4.5x.75mm	D-4	5/8	.1520	13/32	2-3/8	312-0168	312-0268	10x1.5mm	D-6	1-1/16	.3440	13/16	3-3/8	312-0178	312-0278
5x.8mm	D-4	5/8	.1700	13/32	2-3/8	312-0170	312-0270	12x1.75mm	D-6	1-3/8	.4140	1-1/8	4-1/16	312-0180	312-0280

Size	Limit	Thread Length	Drill Length	Drill Size	Overall Length	H.S.S Order No.	TiN-Coated Order No.	Size	Limit	Thread Length	Drill Length	Drill Size	Overall Length	H.S.S Order No.	TiN-Coated Order No.
4-40NC	H-2	9/16"	1/4"	.0890"	1-7/8"	312-0102	312-0202	12-28NF	H-3	7/8"	15/32"	.1835"	2-3/8"	312-0124	312-0224
4-48NF	H-2	9/16	1/4	.0930	1-7/8	312-0104	312-0204	1/4-20NC	H-3	15/16	17/32	.2010	2-1/2	312-0126	312-0226
5-40NC	H-2	5/8	9/32	.1015	1-15/16	312-0106	312-0206	1/4-28NF	H-3	15/16	17/32	.2175	2-1/2	312-0128	312-0228
5-44NF	H-2	5/8	9/32	.1040	1-15/16	312-0108	312-0208	5/16-18NC	H-3	1-1/8	11/16	.2570	3	312-0130	312-0230
6-32NC	H-3	11/16	5/16	.1095	2	312-0110	312-0210	5/16-24NF	H-3	1-1/8	11/16	.2720	3	312-0132	312-0232
6-40NF	H-2	11/16	5/16	.1150	2	312-0112	312-0212	3/8-16NC	H-3	1-1/4	13/16	.3125	3-1/2	312-0134	312-0234
8-32NC	H-3	3/4	3/8	.1360	2-1/8	312-0114	312-0214	3/8-24NF	H-3	1-1/4	13/16	.3345	3-1/2	312-0136	312-0236
8-36NF	H-3	3/4	3/8	.1385	2-1/8	312-0116	312-0216	7/16-14NC	H-3	1-7/16	1	.3680	3-7/8	312-0138	312-0238
10-24NC	H-3	7/8	13/32	.1520	2-3/8	312-0118	312-0218	7/16-20NF	H-3	1-7/16	1	.3890	3-7/8	312-0140	312-0240
10-32NF	H-3	7/8	13/32	.1610	2-3/8	312-0120	312-0220	1/2-13NC	H-3	1-21/32	1-1/8	.4250	4-1/4	312-0142	312-0242
12-24NC	H-3	7/8	15/32	.1770	2-3/8	312-0122	312-0222	1/2-20N	H-3	1-21/32	1-1/8	.4510	4-1/4	312-0144	312-0244

Metric Nut Taps

DIN 357

High Speed Steel

Right Hand



Size	Order No.	Size	Order No.
M3x.5mm	311-1503	M8x1.25mm	311-1508
M4x.7mm	311-1504	M10x1.50mm	311-1510
M5x.8mm	311-1505	M12x1.75mm	311-1512
M6x1.0mm	311-1506		

Metric Single Pass Drill Taps

High Speed Steel,

Ground Thread,

German Pattern



Size	Drill Length	Thread Length	Overall Length	H.S.S Order No.	TiN-Coated Order No.
M3	5mm	6	36	312-8003	312-8103
M4	6mm	8	39	312-8004	312-8104
M5	7mm	9	41	312-8005	312-8105
M6	8mm	11	44	312-8006	312-8106
M8	11mm	14	51	312-8008	312-8108
M10	15mm	17	59	312-8010	312-8110

Metric Hand Taps

NKS

Metric Hand Taps

DIN 352

3 Piece

High Speed Steel



Size	Taper Order No.	Plug Order No.	Bottoming Order No.	Set Order No.
M2-.4mm	324-1020	324-2020	324-3020	311-1219
M2.5-.45mm	324-1025	324-2025	324-3025	311-1221
M2.6-.45mm	324-1026	324-2026	324-3026	311-1226
M3-.5mm	324-1030	324-2030	324-3030	311-1203
M3.5-.6mm	324-1035	324-2035	324-3035	311-1235
M4-.7mm	324-1040	324-2040	324-3040	311-1204
M5-.8mm	324-1050	324-2050	324-3050	311-1205
M6-1.0mm	324-1060	324-2060	324-3060	311-1206
M7-1.0mm	324-1070	324-2070	324-3070	311-1207
M8-1.25mm	324-1080	324-2080	324-3080	311-1208
M9-1.25mm	324-1090	324-2090	324-3090	311-1209
M10-1.50mm	324-1100	324-2100	324-3100	311-1210
M12-1.75mm	324-1120	324-2120	324-3120	311-1212
M14-2.0mm	324-1140	324-2140	324-3140	311-1214
M16-2.0mm	324-1160	324-2160	324-3160	311-1216
M18-2.5mm	324-1180	324-2180	324-3180	311-1218
M20-2.5mm	324-1200	324-2200	324-3200	311-1220
M22-2.5mm	324-1220	324-2220	324-3220	311-1222
M24-3.0mm	324-1240	324-2240	324-3240	311-1224
M27-3.0mm	324-1270	324-2270	324-3270	311-1227
M30-3.5mm	324-1300	324-2300	324-3300	311-1230
M33-3.5mm	324-1330	324-2330	324-3330	311-1233
M36-4.0mm	324-1360	324-2360	324-3360	311-1236
M39-4.0mm	324-1390	324-2390	324-3390	311-1239
M42-4.5mm	324-1420	324-2420	324-3420	311-1242
M45-4.5mm	324-1450	324-2450	324-3450	311-1245
M48-5.0mm	324-1480	324-2480	324-3480	311-1248
M52-5.0mm	324-1520	324-2520	324-3520	311-1252
M56-5.5mm	324-1560	324-2560	324-3560	311-1256
M60-5.5mm	324-1600	324-2600	324-3600	311-1260
M64-6.0mm	324-1640	324-2640	324-3640	311-1264
M68-6.0mm	324-1680	324-2680	324-3680	311-1268

Metric Hand Tap Sets

DIN 5157

2 Piece, High Speed Steel,

Right Hand



Size	Overall Length	Order No.	Size	Overall Length	Order No.
1/8"-28	63mm	311-1008	5/8"-14	90mm	311-1040
1/4-19	70mm	311-1016	3/4-14	100mm	311-1048
3/8-19	70mm	311-1024	7/8-14	100mm	311-1056
1/2-14	80mm	311-1032	1-11	110mm	311-1064

Metric Hand Tap Sets

MF DIN 2181

2 Piece

High Speed Steel



Size	Order No.	Size	Order No.
M3-.35mm	311-1302	M12-1.5mm	311-1324
M4-.35mm	311-1304	M14-1.0mm	311-1326
M4-.5mm	311-1306	M14-1.25mm	311-1328
M5-.5mm	311-1308	M14-1.5mm	311-1330
M6-.75mm	311-1310	M16-1.0mm	311-1332
M8-.75mm	311-1312	M16-1.5mm	311-1334
M8-1.0mm	311-1314	M18-1.5mm	311-1336
M10-1.0mm	311-1316	M20-1.5mm	311-1338
M10-1.25mm	311-1318	M22-1.5mm	311-1340
M12-1.0mm	311-1320	M24-1.5mm	311-1342
M12-1.25mm	311-1322		

Metric Hand Tap Sets

DIN 351

3 Piece

High Speed Steel

Right Hand



Size	Overall Length	Order No.	Size	Overall Length	Order No.
1/16"-60	32mm	311-3004	5/8"-11	90mm	311-3040
3/32-48	36mm	311-3006	3/8-10	105mm	311-3048
1/8-40	40mm	311-3008	7/8-9	110mm	311-3056
5/32-32	45mm	311-3010	1-8	110mm	311-3100
3/16-24	50mm	311-3012	1-1/8-7	132mm	311-3108
7/32-24	50mm	311-3014	1-1/4-7	132mm	311-3116
1/4-20	56mm	311-3016	1-3/8-6	150mm	311-3124
5/16-18	63mm	311-3020	1-1/2-6	150mm	311-3132
3/8-16	70mm	311-3024	1-5/8-5	160mm	311-3140
7/16-14	75mm	311-3028	1-3/4-5	160mm	311-3148
1/2-12	80mm	311-3032	1-7/8-4-1/2	190mm	311-3156
9/16-12	80mm	311-3036	2-4-1/2	190mm	311-3200

Metric Machine Taps
DIN 371
High Speed Steel
Thread Ground
Right Hand

High Speed Steel

Size	Straight Flute		Spiral Flute		Spiral Point Order No.
	Taper "A"	Bottom "C"	15° Flute	35° Flute	
	Order No.	Order No.	Order No.	Order No.	
M2-.4mm	311-1602	311-1702	311-1622	311-1722	311-1612
M3-.5mm	311-1603	311-1703	311-1623	311-1723	311-1613
M4-.7mm	311-1604	311-1704	311-1624	311-1724	311-1614
M5-.8mm	311-1605	311-1705	311-1625	311-1725	311-1615
M6-1.0mm	311-1606	311-1706	311-1626	311-1726	311-1616
M8-1.25mm	311-1608	311-1708	311-1628	311-1728	311-1618
M10-1.5mm	311-1610	311-1710	311-1630	311-1730	311-1620

HSS, TiN Coated

Size	Straight Flute		Spiral Flute		Spiral Point Order No.
	Taper "A"	Bottom "C"	15° Flute	35° Flute	
	Order No.	Order No.	Order No.	Order No.	
M2-.4mm	311-1632	311-1732	311-1652	311-1752	311-1642
M3-.5mm	311-1633	311-1733	311-1653	311-1753	311-1643
M4-.7mm	311-1634	311-1734	311-1654	311-1754	311-1644
M5-.8mm	311-1635	311-1735	311-1655	311-1755	311-1645
M6-1.0mm	311-1636	311-1736	311-1656	311-1756	311-1646
M8-1.25mm	311-1638	311-1738	311-1658	311-1758	311-1648
M10-1.5mm	311-1640	311-1740	311-1660	311-1760	311-1650

Metric Machine Taps
DIN 376
High Speed Steel
Thread Ground
Right Hand

High Speed Steel

Size	Straight Flute		Spiral Flute		Spiral Point Order No.
	Taper "A"	Bottom "C"	15° Flute	35° Flute	
	Order No.	Order No.	Order No.	Order No.	
M3-0.5mm	311-1403	311-2403	311-1463	311-2463	311-1433
M4-0.7mm	311-1404	311-2404	311-1464	311-2464	311-1434
M5-0.8mm	311-1405	311-2405	311-1465	311-2465	311-1435
M6-1.0mm	311-1406	311-2406	311-1466	311-2466	311-1436
M8-1.25mm	311-1408	311-2408	311-1468	311-2468	311-1438
M10-1.5mm	311-1410	311-2410	311-1470	311-2470	311-1440
M12-1.75mm	311-1412	311-2412	311-1472	311-2472	311-1442
M14-2.0mm	311-1414	311-2414	311-1474	311-2474	311-1444
M16-2.0mm	311-1416	311-2416	311-1476	311-2476	311-1446
M18-2.5mm	311-1418	311-2418	311-1478	311-2478	311-1448
M20-2.5mm	311-1420	311-2420	311-1480	311-2480	311-1450
M22-2.5mm	311-1422	311-2422	311-1482	311-2482	311-1452
M24-3.0mm	311-1424	311-2424	311-1484	311-2484	311-1454
M27-3.0mm	311-1427	311-2427	311-1487	311-2487	311-1457
M30-3.5mm	311-1430	311-2430	311-1490	311-2490	311-1460

HSS, TiN Coated

Size	Straight Flute		Spiral Flute		Spiral Point Order No.
	Taper "A"	Bottom "C"	15° Flute	35° Flute	
	Order No.	Order No.	Order No.	Order No.	
M3-0.5mm	311-2503	311-2603	311-2563	311-2663	311-2633
M4-0.7mm	311-2504	311-2604	311-2564	311-2664	311-2634
M5-0.8mm	311-2505	311-2605	311-2565	311-2665	311-2635
M6-1.0mm	311-2506	311-2606	311-2566	311-2666	311-2636
M8-1.25mm	311-2508	311-2608	311-2568	311-2668	311-2638
M10-1.5mm	311-2510	311-2610	311-2570	311-2670	311-2640
M12-1.75mm	311-2512	311-2612	311-2572	311-2672	311-2642
M14-2.0mm	311-2514	311-2614	311-2574	311-2674	311-2644
M16-2.0mm	311-2516	311-2616	311-2576	311-2676	311-2646
M18-2.5mm	311-2518	311-2618	311-2578	311-2678	311-2648
M20-2.5mm	311-2520	311-2620	311-2580	311-2680	311-2650
M22-2.5mm	311-2522	311-2622	311-2582	311-2682	311-2652
M24-3.0mm	311-2524	311-2624	311-2584	311-2684	311-2654
M27-3.0mm	311-2527	311-2627	311-2587	311-2687	311-2657
M30-3.5mm	311-2530	311-2630	311-2590	311-2690	311-2660

NPT Taper Pipe Taps

Carbon Steel, Ground Thread



Size	Order No.	Size	Order No.
1/8"-27	312-6010	1-1/2"-11-1/2	312-6045
1/4-18	312-6015	2-11-1/2	312-6050
3/8-18	312-6020	2-1/2"-8	312-6055
1/2-14	312-6025	3-8	312-6060
3/4-14	312-6030	3-1/2-8	312-6065
1-11-1/2	312-6035	4"-8	312-6070
1-1/4"-11-1/2	312-6040		

NPT & NPTF Taper Pipe Taps

High Speed Steel, Ground Thread



Size	No. of Flute	Flute Length	Overall Length	NPT Order No.	NPTF Order No.
1/16"-27	4	11/16"	2-1/8"	311-6005	311-6205
*1/8"-27	4	3/4	2-1/8	311-6010	311-6208
1/8"-27	4	3/4	2-1/8	311-6011	311-6210
1/4-18	4	1-1/16	2-7/16	311-6015	311-6215
3/8-18	4	1-1/16	2-9/16	311-6020	311-6220
1/2-14	4	1-3/8	3-1/8	311-6025	311-6225
3/4-14	5	1-3/8	3-1/4	311-6030	311-6230
1-11-1/2	5	1-3/4	3-1/4	311-6035	311-6235
1-1/4-11-1/2	5	1-3/4	4	311-6040	311-6240
1-1/2-11-1/2	7	1-3/4	4-1/4	311-6045	311-6245
2-11-1/2	7	1-3/4	4-1/2	311-6050	311-6250
2-1/2-8	8	2-9/16	5-1/2	311-6055	311-6255
3-8	8	2-5/8	6	311-6060	311-6260
3-1/2-8	8	2-11/16	6-1/2	311-6065	311-6265

* Small Shank

NPT Taper Pipe Taps-Interrupted Thread

High Speed Steel, Ground Thread



Size	No. of Flute	Thread Length	Overall Length	Order No.
1/16"-27	5	3/4"	2-1/8"	311-6105
*1/8"-27	5	3/4	2-1/8	311-6110
1/8"-27	5	3/4	2-1/8	311-6111
1/4-18	5	1-1/16	2-7/16	311-6115
3/8-18	5	1-1/16	2-9/16	311-6120
1/2-14	5	1-3/8	3-1/8	311-6125
3/4"-14	5	1-3/8"	3-1/4"	311-6130
1-11-1/2	5	1-3/4	3-3/4	311-6135
1-1/4-11-1/2	5	1-3/4	4	311-6140
1-1/2-11-1/2	7	1-3/4	4-1/4	311-6145
2-11-1/2	7	1-3/4	4-1/2	311-6150

*0.3125"Shank, **0.4375"Shank

Interrupted NPS Straight Pipe Taps

High Speed Steel, Ground Thread

- Use for tapping holes to be used with tapered * 0.4375"Shank, **0.3125"Shank threading pipe and fittings in low pressure applications when a sealer is used
- Adheres to be same specifications as taper pipe taps except the threads straight



Size	Threads Per Inch	No. of Flutes	Thread Length	Overall Length	Interrupted NPS Order No.
1/16	27	4	11/16	2-1/8	311-6905
*1/8	27	4	3/4	2-1/8	311-6908
**1/8	27	4	3/4	2-1/8	311-6910
1/4	18	4	1-1/16	2-7/16	311-6915
3/8	18	4	1-1/16	2-9/16	311-6920
1/2	14	4	1-3/8	3-1/8	311-6925
3/4	14	5	1-3/8	3-1/4	311-6930
1	11-1/2	5	1-3/4	3-3/4	311-6935
1-1/4	11-1/2	5	1-3/4	4	311-6940
1-1/2	11-1/2	7	1-3/4	4-1/4	311-6945
2	11-1/2	7	1-3/4	4-1/2	311-6950
2-1/2	8	8	2-9/16	5-1/2	311-6955
3	8	8	2-5/8	6	311-6960
3-1/2	8	8	2-11/16	6-1/2	311-6965
4	8	8	2-3/4	6-3/4	311-6970

*0.3125"Shank, **0.4375"Shank

NPSF Straight Pipe Taps

High Speed Steel, Ground Thread

- Use for tapping holes to be used with tapered * 0.4375"Shank, **0.3125"Shank threading pipe and fittings in low pressure applications when a sealer is used
- Adheres to be same specifications as taper pipe taps except the thread is straight



Size	Threads Per Inch	No. of Flutes	Thread Length	Overall Length	NPSF Order No.
1/16	27	4	11/16	2-1/8	311-6805
*1/8	27	4	3/4	2-1/8	311-6808
**1/8	27	4	3/4	2-1/8	311-6810
1/4	18	4	1-1/16	2-7/16	311-6815
3/8	18	4	1-1/16	2-9/16	311-6820
1/2	14	4	1-3/8	3-1/8	311-6825
3/4	14	5	1-3/8	3-1/4	311-6830
1	11-1/2	5	1-3/4	3-3/4	311-6835
1-1/4	11-1/2	5	1-3/4	4	311-6840
1-1/2	11-1/2	7	1-3/4	4-1/4	311-6845
2	11-1/2	7	1-3/4	4-1/2	311-6850
2-1/2	8	8	2-9/16	5-1/2	311-6855
3	8	8	2-5/8	6	311-6860
3-1/2	8	8	2-11/16	6-1/2	311-6865
4	8	8	2-3/4	6-3/4	311-6870

*0.4375"Shank, **0.3125"Shank

NPS Straight Pipe Taps

High Speed Steel,
Ground Thread



Size	Order No.	Size	Order No.	Size	Order No.
1/8"-27	311-6310	3/4-14	311-6330	2-11-1/2	311-6350
1/4-18	311-6315	1-11-1/2	311-6335	3-8	311-6360
3/8-18	311-6320	1-1/4-11-1/2	311-6340		
1/2-14	311-6325	1-1/2-11-1/2	311-6345		

TiN Coated Taper Pipe Taps



Tap Size	No. of Flute	Thread Length	Overall Length	Order No.
1/16"-27	5	11/16"	2-1/8"	318-3305
1/8-27	5	3/4	2-1/8	318-3310
1/4-18	5	1-1/16	2-7/8	318-3315
3/8-18	5	1-1/16	2-9/16	318-3320
1/2-14	5	1-3/8	3-1/8	318-3325
3/4-14	5	1-3/8	3-1/4	318-3330
1-11-1/2	5	1-3/4	3-3/4	318-3335

TiN Coated Straight Pipe Taps



Tap Size	No. of Flute	Thread Length	Overall Length	Order No.
1/8"-27	4	3/4"	2-1/8"	318-3403
1/4-18	4	1-1/16	2-1/8	318-3406
1/4-18	4	1-1/16	2-9/16	318-3409
3/8-18	4	1-1/16	2-9/16	318-3412
1/2-14	4	1-3/8	3-1/8	318-3415

HSS NPT Long Taper Pipe Taps



Size	Threads Per Inch	Thread Length	OAL	Order No.
1/8"	27	3/4"	4"	311-6702
1/4	18	1-1/16	4	311-6712
3/8	18	1-1/16	4	311-6717
1/2	14	1-3/8	4	311-6722
3/4	14	1-3/8	4	311-6722
1	11	1-3/4	4	311-6727
1/8	27	3/4	6	311-6732
1/4	18	1-1/16	6	311-6737
3/8	18	1-1/16	6	311-6742
1/2	14	1-3/8	6	311-6747
3/4	14	1-3/8	6	311-6752
1	11-1/2	1-3/4	6	311-6757
1-1/4	11-1/2	1-3/4	6	311-6762
1-1/2	11-1/2	1-3/4	8	311-6767

55° Whitworth Thread British Pipe Taps

HSS, Right Hand, Ground Thread, Bottoming

- 55° Whitworth thread form.
- BSPP: British standard parallel straight pipe.
- BSPT: British standard taper pipe.



Tap Size	BSPP Order No.	BSPT Order No.
1/8"-28	311-6530	311-6560
1/4-19	311-6531	311-6561
3/8-19	311-6532	311-6562
1/2-14	311-6533	311-6563
5/8-14	311-6534	311-6564
3/4-14	311-6535	311-6565
7/8-14	311-6536	311-6566

Tap Size	BSPP Order No.	BSPT Order No.
1"-11	311-6537	311-6567
1-1/4-11	311-6538	311-6568
1-1/2-11	311-6539	311-6569
1-3/4-11	311-6540	311-6570
2-11	311-6541	311-6571
2-1/2-11	311-6542	311-6572
3-11	311-6543	311-6573

Interrupted NPTF Taper Pipe Taps

High Speed Steel

*0.3125" Shank, **0.4375" shank

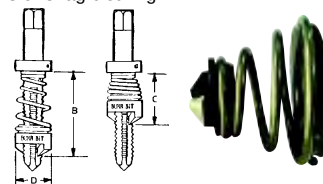


Thread Size	Thread length	OAL	No. of Flutes	Order No.
1/16"-27	11/16"	2-1/8"	4	312-6105
1/8"-27	3/4"	2-1/8"	4	312-6108
1/8"-27	3/4"	2-1/8"	4	312-6110
1/4"-18	1-1/16"	2-7/16"	4	312-6115
3/8"-18	1-1/16"	2-9/16"	4	312-6120
1/2"-14	1-3/8"	3-1/8"	4	312-6125
3/4"-14	1-3/8"	3-1/4"	5	312-6130
1"-11-1/2	1-3/4"	3-1/4"	5	312-4135
1-1/4"-11-1/2	1-3/4"	4"	5	312-6140
1-1/2"-11-1/2	1-3/4"	4-1/4"	7	312-6145
2"-11-1/2	1-3/4"	4-1/2"	7	312-6150
2-1/2"-8	2-9/16"	5-1/2"	8	312-6155
3"-8	2-5/8"	6"	8	312-6160
3-1/2"	2-11/16"	6-1/2"	8	312-6165

Pipe Tap Burr-Bit

Taps and deburrs in one operation. Eliminates expensive secondary deburring.

- Deburrs the top of the tapped hole while the tap is being withdrawn from the work piece at standard 120°.
- No reversal cut in the chamfer due to tool cutting only in reverse.
- Creates a chamfer for easy screw insertion; leaves no burr to clog the tapped hole.
- Deburrs to consistent depth even though work pieces vary in thickness.
- No hazardous sharp burrs to cut fingers or snag clothing.
- Easy to install; simply slips over your tap. Resharpenable with simple radial relief grinding fixture.
- Taps not included.
- Available up to size 1-1/4" and in metric sizes
- Also available in 90° based on P.O.A.



Pipe Tap Size	Dimensions			Flute Taps	Order No.
	B	C	D		
1/8"	1-1/16	19/32	21/32	4	313-2001

Tap Extractor for Pipe Taps

Complete Extractor

- For use with standard pipe taps



5 Flute

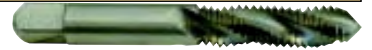
Tap Size	Order No.
1/8"	312-8951
1/4	312-8952
3/8	312-8953
1/2	312-8954
3/4	312-8955

4 Flute

Tap Size	Order No.
1/8"	312-8941
1/4	312-8942
3/8	312-8943
1/2	312-8944

30° Slow Spiral Flute Taps

HSS, Ground



Size	Threads Per Inch	Thread Type	Flutes Limits	No. of Flutes	Order No.	Size	Threads Per Inch	Thread Type	Flutes Limits	No. of Flutes	Order No.
3	48	NC	H2	2	311-8710	5/16	18	NC	H3	3	311-8742
3	56	NF	H2	2	311-8712	5/16	24	NF	H3	3	311-8744
4	48	NC	H2	2	311-8714	3/8	16	NC	H3	3	311-8746
4	40	NF	H2	2	311-8716	3/8	24	NF	H3	3	311-8748
5	48	NC	H2	2	311-8718	7/16	14	NC	H3	3	311-8750
5	44	NF	H2	2	311-8720	7/16	20	NF	H3	3	311-8752
6	32	NC	H3	2	311-8722	1/2	13	NC	H3	3	311-8754
6	40	NF	H3	2	311-8724	1/2	20	NF	H3	4	311-8756
8	32	NC	H3	3	311-8726	9/16	12	NC	H3	3	311-8758
8	36	NF	H3	3	311-8728	9/16	18	NF	H3	3	311-8760
10	24	NC	H3	3	311-8730	5/8	11	NC	H3	4	311-8762
10	32	NF	H3	3	311-8732	5/8	18	NF	H3	4	311-8764
12	24	NC	H3	3	311-8734	3/4	10	NC	H3	4	311-8766
12	28	NF	H3	3	311-8736	3/4	16	NF	H3	4	311-8768
1/4	20	NC	H3	3	311-8738	7/8	9	NC	H3	3	311-8770
1/4	28	NF	H3	3	311-8740						

45° Fast Spiral Flute Taps

HSS, Ground

- Fast spiral improves chip drawing action in relatively deep blind holes
- Suited for tapping aluminum, magnesium, brass, copper and zinc die cast materials
- Surface treated to resist loading and galling



Plug

Bottoming

Size	Threads Per Inch	Thread Type	Flutes Limits	No. of Flutes	Order No.
3	48	NC	H2	2	311-8510
3	56	NF	H2	2	311-8512
4	40	NC	H2	2	311-8514
4	48	NF	H2	2	311-8516
5	40	NC	H2	2	311-8518
5	44	NF	H2	2	311-8520
6	32	NC	H3	2	311-8522
6	40	NF	H3	2	311-8524
8	32	NC	H3	3	311-8526
8	36	NF	H3	3	311-8528
10	24	NC	H3	3	311-8530
10	32	NF	H3	3	311-8532
12	24	NC	H3	3	311-8534
12	28	NF	H3	3	311-8536
1/4	20	NC	H3	3	311-8538
1/4	28	NF	H3	3	311-8540
5/16	18	NC	H3	3	311-8542
5/16	24	NF	H3	3	311-8544
3/8	16	NC	H3	3	311-8546
3/8	24	NF	H3	3	311-8548
7/16	14	NC	H3	3	311-8550
7/16	20	NF	H3	3	311-8552
1/2	13	NC	H3	3	311-8554
1/2	20	NF	H3	4	311-8556
9/16	12	NC	H3	3	311-8558
9/16	18	NF	H3	3	311-8560
5/8	11	NC	H3	4	311-8562
5/8	18	NF	H3	4	311-8564
3/4	10	NC	H3	4	311-8566
3/4	16	NF	H3	4	311-8568

Size	Threads Per Inch	Thread Type	Flutes Limits	No. of Flutes	Order No.
3	48	NC	H2	2	311-8410
3	56	NF	H2	2	311-8412
4	40	NC	H2	2	311-8414
4	48	NF	H2	2	311-8416
5	40	NC	H2	2	311-8418
5	44	NF	H2	2	311-8420
6	32	NC	H3	2	311-8422
6	40	NF	H3	2	311-8424
8	32	NC	H3	3	311-8426
8	32	NC	H3	2	311-8427
8	36	NF	H3	3	311-8428
10	24	NC	H3	3	311-8430
10	32	NF	H3	3	311-8432
10	32	NF	H3	2	311-8433
12	24	NC	H3	3	311-8434
12	28	NF	H3	3	311-8436
1/4	20	NC	H3	3	311-8438
1/4	28	NF	H3	3	311-8440
5/16	18	NC	H3	3	311-8442
5/16	24	NF	H3	3	311-8444
3/8	16	NC	H3	3	311-8446
3/8	24	NF	H3	3	311-8448
7/16	14	NC	H3	3	311-8450
7/16	20	NF	H3	3	311-8452
1/2	13	NC	H3	3	311-8454
1/2	20	NF	H3	3	311-8456
9/16	12	NC	H3	3	311-8458
9/16	18	NF	H3	3	311-8460
5/8	11	NC	H3	4	311-8462
5/8	18	NF	H3	3	311-8464
3/4	10	NC	H3	4	311-8466
3/4	16	NF	H3	3	311-8468
7/8	9	NC	H3	3	311-8470
7/8	14	NF	H3	3	311-8472
1	8	NC	H4	3	311-8474
1-1/2	12	NF	H4	3	311-8476
1-1/2	14	NS	H4	3	311-8478