

# Cutting Tools



## HAND TAPS - TAPER STYLE

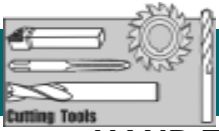
Ground Thread, High Speed Steel



Size	H Limit	No. Of Flute	Thread Length	Overall Length	Model No.
0-80NF	H-1	2	5/16"	1-5/8"	440-1000
0-80NF	H-2	2	5/16"	1-5/8"	440-1002
1-64NC	H-1	2	3/8"	1-11/16"	440-1004
1-64NC	H-2	2	3/8"	1-11/16"	440-1006
1-72NF	H-1	2	3/8"	1-11/16"	440-1008
1-72NF	H-2	2	3/8"	1-11/16"	440-1009
2-56NC	H-1	2	7/16"	1-3/4"	440-1010
2-56NC	H-2	2	7/16"	1-3/4"	440-1011
2-56NC	H-1	3	7/16"	1-3/4"	440-1012
2-56NC	H-2	3	7/16"	1-3/4"	440-1013
2-64NF	H-1	3	7/16"	1-3/4"	440-1014
2-64NF	H-2	3	7/16"	1-3/4"	440-1015
3-48NC	H-2	3	1/2"	1-3/4"	440-1018
3-56NF	H-1	3	1/2"	1-3/4"	440-1019
3-56NF	H-2	3	1/2"	1-3/4"	440-1020
4-36	H-2	3	1/2"	1-13/16"	440-1022
4-40NC	H-1	3	9/16"	1-7/8"	440-1025
4-40NC	H-2	3	9/16"	1-7/8"	440-1026
4-48NF	H-2	2	9/16"	1-7/8"	440-1030
4-48NF	H-2	3	9/16"	1-7/8"	440-1032
5-40NC	H-2	2	5/8"	1-15/16"	440-1033
5-40NC	H-2	3	5/8"	1-15/16"	440-1035
5-44NF	H-2	3	5/8"	1-15/16"	440-1037
6-32NC	H-2	2	11/16"	2"	440-1039
6-32NC	H-3	2	11/16"	2"	440-1040
6-32NC	H-1	3	11/16"	2"	440-1041
6-32NC	H-2	3	11/16"	2"	440-1042
6-32NC	H-3	3	11/16"	2"	440-1043
6-40NF	H-2	2	11/16"	2"	440-1047
6-40NF	H-2	3	11/16"	2"	440-1049
8-32NC	H-2	2	3/4"	2-1/8"	440-1051
8-32NC	H-3	2	3/4"	2-1/8"	440-1052
8-32NC	H-2	3	3/4"	2-1/8"	440-1054
8-32NC	H-3	3	3/4"	2-1/8"	440-1055
8-32NC	H-1	4	3/4"	2-1/8"	440-1057
8-32NC	H-2	4	3/4"	2-1/8"	440-1058
8-32NC	H-3	4	3/4"	2-1/8"	440-1059
8-36NF	H-2	2	3/4"	2-1/8"	440-1063
8-36NF	H-2	4	3/4"	2-1/8"	440-1065
10-24NC	H-2	2	7/8"	2-3/8"	440-1066
10-24NC	H-3	2	7/8"	2-3/8"	440-1067
10-24NC	H-2	3	7/8"	2-3/8"	440-1068
10-24NC	H-3	3	7/8"	2-3/8"	440-1069
10-24NC	H-1	4	7/8"	2-3/8"	440-1071
10-24NC	H-2	4	7/8"	2-3/8"	440-1072
10-24NC	H-3	4	7/8"	2-3/8"	440-1073
10-32NF	H-2	2	7/8"	2-3/8"	440-1078
10-32NF	H-3	2	7/8"	2-3/8"	440-1079
10-32NF	H-2	3	7/8"	2-3/8"	440-1080
10-32NF	H-3	3	7/8"	2-3/8"	440-1081
10-32NF	H-1	4	7/8"	2-3/8"	440-1083
10-32NF	H-2	4	7/8"	2-3/8"	440-1084
10-32NF	H-3	4	7/8"	2-3/8"	440-1085
12-24NC	H-3	4	15/16"	2-3/8"	440-1090
12-28NF	H-1	4	15/16"	2-3/8"	440-1091
12-28NF	H-3	4	15/16"	2-3/8"	440-1092
1/4"-20NC	H-3	2	1"	2-1/2"	440-1102
1/4"-20NC	H-3	3	1"	2-1/2"	440-1108
1/4"-20NC	H-5	3	1"	2-1/2"	440-1110
1/4"-20NC	H-1	4	1"	2-1/2"	440-1112
1/4"-20NC	H-2	4	1"	2-1/2"	440-1114
1/4"-20NC	H-3	4	1"	2-1/2"	440-1116
1/4"-20NC	H-5	4	1"	2-1/2"	440-1118
1/4"-28NF	H-3	2	1"	2-1/2"	440-1132
1/4"-28NF	H-3	3	1"	2-1/2"	440-1134
1/4"-28NF	H-1	4	1"	2-1/2"	440-1136
1/4"-28NF	H-2	4	1"	2-1/2"	440-1138
1/4"-28NF	H-3	4	1"	2-1/2"	440-1140
1/4"-28NF	H-4	4	1"	2-1/2"	440-1142
5/16"-18NC	H-3	2	1-1/8"	2-23/32"	440-1144
5/16"-18NC	H-3	3	1-1/8"	2-23/32"	440-1148
5/16"-18NC	H-1	4	1-1/8"	2-23/32"	440-1152
5/16"-18NC	H-2	4	1-1/8"	2-23/32"	440-1154

Size	H Limit	No. Of Flute	Thread Length	Overall Length	Model No.
5/16"-18NC	H-3	4	1-1/8"	2-23/32"	440-1156
5/16"-18NC	H-5	4	1-1/8"	2-23/32"	440-1158
5/16"-24NF	H-3	2	1-1/8"	2-23/32"	440-1165
5/16"-24NF	H-3	3	1-1/8"	2-23/32"	440-1168
5/16"-24NF	H-1	4	1-1/8"	2-23/32"	440-1170
5/16"-24NF	H-2	4	1-1/8"	2-23/32"	440-1172
5/16"-24NF	H-3	4	1-1/8"	2-23/32"	440-1174
5/16"-24NF	H-4	4	1-1/8"	2-23/32"	440-1176
3/8"-16NC	H-3	3	1-1/4"	2-15/16"	440-1182
3/8"-16NC	H-5	3	1-1/4"	2-15/16"	440-1183
3/8"-16NC	H-1	4	1-1/4"	2-15/16"	440-1184
3/8"-16NC	H-2	4	1-1/4"	2-15/16"	440-1186
3/8"-16NC	H-3	4	1-1/4"	2-15/16"	440-1188
3/8"-16NC	H-5	4	1-1/4"	2-15/16"	440-1190
3/8"-24NF	H-3	3	1-1/4"	2-15/16"	440-1224
3/8"-24NF	H-1	4	1-1/4"	2-15/16"	440-1226
3/8"-24NF	H-2	4	1-1/4"	2-15/16"	440-1228
3/8"-24NF	H-3	4	1-1/4"	2-15/16"	440-1230
3/8"-24NF	H-4	4	1-1/4"	2-15/16"	440-1232
7/16"-14NC	H-3	3	1-7/16"	3-5/32"	440-1234
7/16"-14NC	H-5	3	1-7/16"	3-5/32"	440-1236
7/16"-14NC	H-2	4	1-7/16"	3-5/32"	440-1240
7/16"-14NC	H-3	4	1-7/16"	3-5/32"	440-1242
7/16"-14NC	H-5	4	1-7/16"	3-5/32"	440-1244
7/16"-20NF	H-3	3	1-7/16"	3-5/32"	440-1246
7/16"-20NF	H-2	4	1-7/16"	3-5/32"	440-1256
7/16"-20NF	H-3	4	1-7/16"	3-5/32"	440-1258
7/16"-20NF	H-5	4	1-7/16"	3-5/32"	440-1260
1/2"-13NC	H-3	3	1-21/32"	3-3/8"	440-1262
1/2"-13NC	H-5	3	1-21/32"	3-3/8"	440-1264
1/2"-13NC	H-1	4	1-21/32"	3-3/8"	440-1266
1/2"-13NC	H-2	4	1-21/32"	3-3/8"	440-1268
1/2"-13NC	H-3	4	1-21/32"	3-3/8"	440-1270
1/2"-13NC	H-5	4	1-21/32"	3-3/8"	440-1272
1/2"-20NF	H-3	3	1-21/32"	3-3/8"	440-1276
1/2"-20NF	H-5	3	1-21/32"	3-3/8"	440-1278
1/2"-20NF	H-1	4	1-21/32"	3-3/8"	440-1280
1/2"-20NF	H-2	4	1-21/32"	3-3/8"	440-1282
1/2"-20NF	H-3	4	1-21/32"	3-3/8"	440-1284
1/2"-20NF	H-5	4	1-21/32"	3-3/8"	440-1286
9/16"-12NC	H-1	4	1-21/32"	3-19/32"	440-1312
9/16"-12NC	H-3	4	1-21/32"	3-19/32"	440-1316
9/16"-12NC	H-5	4	1-21/32"	3-19/32"	440-1318
9/16"-18NF	H-2	4	1-21/32"	3-19/32"	440-1322
9/16"-18NF	H-3	4	1-21/32"	3-19/32"	440-1324
9/16"-18NF	H-5	4	1-21/32"	3-19/32"	440-1326
5/8"-11NC	H-2	4	1-13/16"	3-13/16"	440-1330
5/8"-11NC	H-3	4	1-13/16"	3-13/16"	440-1332
5/8"-11NC	H-5	4	1-13/16"	3-13/16"	440-1334
5/8"-18NF	H-1	4	1-13/16"	3-13/16"	440-1338
5/8"-18NF	H-2	4	1-13/16"	3-13/16"	440-1340
5/8"-18NF	H-3	4	1-13/16"	3-13/16"	440-1342
5/8"-18NF	H-5	4	1-13/16"	3-13/16"	440-1343
11/16"-11NS	H-3	4	1-13/16"	4-1/32"	440-1344
11/16"-16NS	H-3	4	1-13/16"	4-1/32"	440-1345
3/4"-10NC	H-3	4	2"	4-1/4"	440-1350
3/4"-10NC	H-5	4	2"	4-1/4"	440-1352
3/4"-16NF	H-1	4	2"	4-1/4"	440-1354
3/4"-16NF	H-3	4	2"	4-1/4"	440-1358
3/4"-16NC	H-5	4	2"	4-1/4"	440-1360
7/8"-9NC	H-4	4	2-7/32"	4-11/16"	440-1366
7/8"-14NF	H-4	4	2-7/32"	4-11/16"	440-1374
1"-8NC	H-4	4	2-1/2"	5-1/8"	440-1380
1"-12NF	H-4	4	2-1/2"	5-1/8"	440-1388
1"-14NS	H-4	4	2-1/2"	5-1/8"	440-1394
1-1/8"-7NC	H-4	4	2-9/16"	5-7/16"	440-1398
1-1/8"-12NF	H-4	4	2-9/16"	5-7/16"	440-1400
1-1/4"-7NC	H-4	4	2-9/16"	5-3/4"	440-1402
1-1/4"-12NF	H-4	6	2-9/16"	5-3/4"	440-1404
1-3/8"-6NC	H-4	4	3"	6-1/16"	440-1406
1-3/8"-12NF	H-4	6	3"	6-1/16"	440-1408
1-1/2"-6NC	H-4	4	3"	6-3/8"	440-1410
1-1/2"-12NF	H-4	6	3"	6-3/8"	440-1412

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# Cutting Tools

## HAND TAPS - PLUG STYLE

Ground Thread, High Speed Steel



Size	H Limit	No. Of Flute	Thread Length	Overall Length	Model No.	Size	H Limit	No. Of Flute	Thread Length	Overall Length	Model No.	Size	H Limit	No. Of Flute	Thread Length	Overall Length	Model No.
0-80NF	H-1	2	5/16"	1-5/8"	440-2000	10-32NF	H-1	2	7/8"	2-3/8"	440-2077	7/16"-14NC	H-5	4	1-7/16"	3-5/32"	440-2244
0-80NF	H-2	2	5/16"	1-5/8"	440-2002	10-32NF	H-2	2	7/8"	2-3/8"	440-2078	7/16"-20NF	H-3	3	1-7/16"	3-5/32"	440-2246
1-64NC	H-1	2	3/8"	1-11/16"	440-2004	10-32NF	H-3	2	7/8"	2-3/8"	440-2079	7/16"-20NF	H-5	3	1-7/16"	3-5/32"	440-2254
1-64NC	H-2	2	3/8"	1-11/16"	440-2006	10-32NF	H-2	3	7/8"	2-3/8"	440-2080	7/16"-20NF	H-2	4	1-7/16"	3-5/32"	440-2256
1-72NF	H-1	2	3/8"	1-11/16"	440-2008	10-32NF	H-3	3	7/8"	2-3/8"	440-2081	7/16"-20NF	H-3	4	1-7/16"	3-5/32"	440-2258
1-72NF	H-2	2	3/8"	1-11/16"	440-2009	10-32NF	H-7	3	7/8"	2-3/8"	440-2082	7/16"-20NF	H-5	4	1-7/16"	3-5/32"	440-2260
2-56NC	H-1	2	7/16"	1-3/4"	440-2010	10-32NF	H-1	4	7/8"	2-3/8"	440-2083	7/16"-20NF	H-11	4	1-7/16"	3-5/32"	440-2261
2-56NC	H-2	2	7/16"	1-3/4"	440-2011	10-32NF	H-2	4	7/8"	2-3/8"	440-2084	1/2"-13NC	H-3	3	1-21/32"	3-3/8"	440-2262
2-56NC	H-1	3	7/16"	1-3/4"	440-2012	10-32NF	H-3	4	7/8"	2-3/8"	440-2085	1/2"-13NC	H-5	3	1-21/32"	3-3/8"	440-2264
2-56NC	H-2	3	7/16"	1-3/4"	440-2013	10-32NF	H-4	4	7/8"	2-3/8"	440-2086	1/2"-13NC	H-1	4	1-21/32"	3-3/8"	440-2266
2-64NF	H-1	3	7/16"	1-3/4"	440-2014	10-32NF	H-5	4	7/8"	2-3/8"	440-2087	1/2"-13NC	H-2	4	1-21/32"	3-3/8"	440-2268
2-64NF	H-2	3	7/16"	1-3/4"	440-2015	10-32NF	H-7	4	7/8"	2-3/8"	440-2088	1/2"-13NC	H-3	4	1-21/32"	3-3/8"	440-2270
3-48NC	H-2	2	1/2"	1-13/16"	440-2016	12-24NC	H-1	4	15/16"	2-3/8"	440-2089	1/2"-13NC	H-5	4	1-21/32"	3-3/8"	440-2272
3-48NC	H-1	3	1/2"	1-13/16"	440-2017	12-24NC	H-3	4	15/16"	2-3/8"	440-2090	1/2"-13NC	H-11	4	1-21/32"	3-3/8"	440-2274
3-48NC	H-2	3	1/2"	1-13/16"	440-2018	12-28NF	H-1	4	15/16"	2-3/8"	440-2091	1/2"-20NF	H-3	3	1-21/32"	3-3/8"	440-2276
3-56NF	H-1	3	1/2"	1-13/16"	440-2019	12-28NF	H-3	4	15/16"	2-3/8"	440-2092	1/2"-20NF	H-5	3	1-21/32"	3-3/8"	440-2278
3-56NF	H-2	3	1/2"	1-13/16"	440-2020	14-20	H-3	4	1-1/4"	2-9/16"	440-2093	1/2"-20NF	H-1	4	1-21/32"	3-3/8"	440-2280
4-36	H-1	3	1/2"	1-13/16"	440-2021	14-24	H-3	4	1-1/4"	2-5/8"	440-2094	1/2"-20NF	H-2	4	1-21/32"	3-3/8"	440-2282
4-36	H-2	3	1/2"	1-13/16"	440-2022	1/4"-20NC	H-3	2	1"	2-1/2"	440-2102	1/2"-20NF	H-3	4	1-21/32"	3-3/8"	440-2284
4-40NC	H-1	2	9/16"	1-7/8"	440-2023	1/4"-20NC	H-1	3	1"	2-1/2"	440-2104	1/2"-20NF	H-5	4	1-21/32"	3-3/8"	440-2286
4-40NC	H-2	2	9/16"	1-7/8"	440-2024	1/4"-20NC	H-2	3	1"	2-1/2"	440-2106	9/16"-12NC	H-2	4	1-21/32"	3-19/32"	440-2314
4-40NC	H-1	3	9/16"	1-7/8"	440-2025	1/4"-20NC	H-3	3	1"	2-1/2"	440-2108	9/16"-12NC	H-3	4	1-21/32"	3-19/32"	440-2316
4-40NC	H-2	3	9/16"	1-7/8"	440-2026	1/4"-20NC	H-5	3	1"	2-1/2"	440-2110	9/16"-12NC	H-5	4	1-21/32"	3-19/32"	440-2318
4-40NC	H-3	3	9/16"	1-7/8"	440-2027	1/4"-20NC	H-1	4	1"	2-1/2"	440-2112	9/16"-18NF	H-1	4	1-21/32"	3-19/32"	440-2320
4-40NC	H-4	4	9/16"	1-7/8"	440-2028	1/4"-20NC	H-2	4	1"	2-1/2"	440-2114	9/16"-18NF	H-2	4	1-21/32"	3-19/32"	440-2322
4-40NC	H-5	5	9/16"	1-7/8"	440-2029	1/4"-20NC	H-3	4	1"	2-1/2"	440-2116	9/16"-18NF	H-3	4	1-21/32"	3-19/32"	440-2324
4-48NF	H-2	2	9/16"	1-7/8"	440-2030	1/4"-20NC	H-5	4	1"	2-1/2"	440-2118	9/16"-18NF	H-5	4	1-21/32"	3-19/32"	440-2326
4-48NF	H-1	3	9/16"	1-7/8"	440-2031	1/4"-20NC	H-6	4	1"	2-1/2"	440-2120	5/8"-11NC	H-1	4	1-13/16"	3-13/16"	440-2328
4-48NF	H-2	3	9/16"	1-7/8"	440-2032	1/4"-20NC	H-7	4	1"	2-1/2"	440-2122	5/8"-11NC	H-2	4	1-13/16"	3-13/16"	440-2330
5-40NC	H-2	2	5/8"	1-15/16"	440-2033	1/4"-20NC	H-11	4	1"	2-1/2"	440-2124	5/8"-11NC	H-3	4	1-13/16"	3-13/16"	440-2332
5-40NC	H-1	3	5/8"	1-15/16"	440-2034	1/4"-28NF	H-3	2	1"	2-1/2"	440-2132	5/8"-11NC	H-5	4	1-13/16"	3-13/16"	440-2334
5-40NC	H-2	3	5/8"	1-15/16"	440-2035	1/4"-28NF	H-3	3	1"	2-1/2"	440-2134	5/8"-11NC	H-11	4	1-13/16"	3-13/16"	440-2336
5-44NF	H-1	3	5/8"	1-15/16"	440-2036	1/4"-28NF	H-1	4	1"	2-1/2"	440-2136	5/8"-18NF	H-1	4	1-13/16"	3-13/16"	440-2338
5-44NF	H-2	3	5/8"	1-15/16"	440-2037	1/4"-28NF	H-2	4	1"	2-1/2"	440-2138	5/8"-18NF	H-2	4	1-13/16"	3-13/16"	440-2340
6-32NC	H-1	2	11/16"	2"	440-2038	1/4"-28NF	H-3	4	1"	2-1/2"	440-2140	5/8"-18NF	H-3	4	1-13/16"	3-13/16"	440-2342
6-32NC	H-2	2	11/16"	2"	440-2039	1/4"-28NF	H-4	4	1"	2-1/2"	440-2142	5/8"-18NF	H-5	4	1-13/16"	3-13/16"	440-2343
6-32NC	H-3	2	11/16"	2"	440-2040	5/16"-18NC	H-3	2	1-1/8"	2-23/32"	440-2144	11/16"-11NSH	H-3	4	1-13/16"	4-1/32"	440-2344
6-32NC	H-1	3	11/16"	2"	440-2041	5/16"-18NC	H-1	3	1-1/8"	2-23/32"	440-2146	11/16"-16NSH	H-4	4	1-13/16"	4-1/32"	440-2345
6-32NC	H-2	3	11/16"	2"	440-2042	5/16"-18NC	H-3	3	1-1/8"	2-23/32"	440-2148	3/4"-10NC	H-1	4	2"	4-1/4"	440-2346
6-32NC	H-3	3	11/16"	2"	440-2043	5/16"-18NC	H-5	3	1-1/8"	2-23/32"	440-2150	3/4"-10NC	H-2	4	2"	4-1/4"	440-2348
6-32NC	H-7	3	11/16"	2"	440-2044	5/16"-18NC	H-1	4	1-1/8"	2-23/32"	440-2152	3/4"-10NC	H-3	4	2"	4-1/4"	440-2350
6-32NC	H-4	4	11/16"	2"	440-2045	5/16"-18NC	H-2	4	1-1/8"	2-23/32"	440-2154	3/4"-10NC	H-5	4	2"	4-1/4"	440-2352
6-32NC	H-5	5	11/16"	2"	440-2046	5/16"-18NC	H-3	4	1-1/8"	2-23/32"	440-2156	3/4"-16NF	H-1	4	2"	4-1/4"	440-2354
6-40NF	H-2	2	11/16"	2"	440-2047	5/16"-18NC	H-5	4	1-1/8"	2-23/32"	440-2158	3/4"-16NF	H-2	4	2"	4-1/4"	440-2356
6-40NF	H-1	3	11/16"	2"	440-2048	5/16"-18NC	H-6	4	1-1/8"	2-23/32"	440-2160	3/4"-16NF	H-3	4	2"	4-1/4"	440-2358
6-40NF	H-2	3	11/16"	2"	440-2049	5/16"-18NC	H-7	4	1-1/8"	2-23/32"	440-2162	3/4"-16NC	H-5	4	2"	4-1/4"	440-2360
8-32NC	H-1	2	3/4"	2-1/8"	440-2050	5/16"-18NC	H-11	4	1-1/8"	2-23/32"	440-2164	7/8"-9NC	H-2	4	2-7/32"	4-11/16"	440-2362
8-32NC	H-2	2	3/4"	2-1/8"	440-2051	5/16"-24NF	H-3	2	1-1/8"	2-23/32"	440-2165	7/8"-9NC	H-3	4	2-7/32"	4-11/16"	440-2364
8-32NC	H-3	2	3/4"	2-1/8"	440-2052	5/16"-24NF	H-1	3	1-1/8"	2-23/32"	440-2166	7/8"-9NC	H-4	4	2-7/32"	4-11/16"	440-2366
8-32NC	H-1	3	3/4"	2-1/8"	440-2053	5/16"-24NF	H-3	3	1-1/8"	2-23/32"	440-2168	7/8"-9NC	H-6	4	2-7/32"	4-11/16"	440-2367
8-32NC	H-2	3	3/4"	2-1/8"	440-2054	5/16"-24NF	H-1	4	1-1/8"	2-23/32"	440-2170	7/8"-14NF	H-1	4	2-7/32"	4-11/16"	440-2368
8-32NC	H-3	3	3/4"	2-1/8"	440-2055	5/16"-24NF	H-2	4	1-1/8"	2-23/32"	440-2172	7/8"-14NF	H-2	4	2-7/32"	4-11/16"	440-2370
8-32NC	H-7	3	3/4"	2-1/8"	440-2056	5/16"-24NF	H-3	4	1-1/8"	2-23/32"	440-2174	7/8"-14NF	H-3	4	2-7/32"	4-11/16"	440-2372
8-32NC	H-1	4	3/4"	2-1/8"	440-2057	5/16"-24NF	H-4	4	1-1/8"	2-23/32"	440-2176	7/8"-14NF	H-4	4	2-7/32"	4-11/16"	440-2374
8-32NC	H-2	4	3/4"	2-1/8"	440-2058	3/8"-16NC	H-1	3	1-1/4"	2-15/16"	440-2180	7/8"-14NF	H-6	4	2-7/32"	4-11/16"	440-2375
8-32NC	H-3	4	3/4"	2-1/8"	440-2059	3/8"-16NC	H-3	3	1-1/4"	2-15/16"	440-2182	1"-8NC	H-1	4	2-1/2"	5-1/8"	440-2376
8-32NC	H-4	4	3/4"	2-1/8"	440-2060	3/8"-16NC	H-5	3	1-1/4"	2-15/16"	440-2183	1"-8NC	H-2	4	2-1/2"	5-1/8"	440-2378
8-32NC	H-5	4	3/4"	2-1/8"	440-2061	3/8"-16NC	H-1	4	1-1/4"	2-15/16"	440-2184	1"-8NC	H-4	4	2-1/2"	5-1/8"	440-2380
8-32NC	H-7	4	3/4"	2-1/8"	440-2062	3/8"-16NC	H-2	4	1-1/4"	2-15/16"	440-2186	1"-8NC	H-6	4	2-1/2"	5-1/8"	440-2382
8-36NF	H-2	2	3/4"	2-1/8"	440-2063	3/8"-16NC	H-3	4	1-1/4"	2-15/16"	440-2188	1"-12NF	H-1	4	2-1/2"	5-1/8"	440-2384
8-36NF	H-1	4	3/4"	2-1/8"	440-2064	3/8"-16NC	H-5	4	1-1/4"	2-15/16"	440-2190	1"-12NF	H-2	4	2-1/2"	5-1/8"	440-2386
8-36NF	H-2	4	3/4"	2-1/8"	440-2065	3/8"-16NC	H-7	4	1-1/4"	2-15/16"	440-2192	1"-12NF	H-4	4	2-1/2"	5-1/8"	440-2388
10-24NCH-2	2	7/8"	2-3/8"	440-2066	3/8"-16NC	H-11	4	1-1/4"	2-15/16"	440-2194	1"-12NF	H-6	4	2-1/2"	5-1/8"	440-2390	
10-24NCH-3	2	7/8"	2-3/8"	440-2067	3/8"-24NF	H-3	3	1-1/4"	2-15/16"	440-2224	1"-14NS	H-2	4	2-1/2"	5-1/8"	440-2392	
10-24NCH-2	3	7/8"	2-3/8"	440-2068	3/8"-24NF	H-1	4	1-1/4"	2-15/16"	440-2226	1"-14NS	H-4	4	2-1/2"	5-1/8"	440-2394	
10-24NCH-3	3	7/8"	2-3/8"	440-2069	3/8"-24NF	H-2	4	1-1/4"	2-15/16"	440-2228	1"-14NS	H-6	4	2-1/2"	5-1/8"	440-2396	
10-24NCH-7	3	7/8"	2-3/8"	440-2070	3/8"-24NF	H-3	4	1-1/4"	2-15/16"	440-2230	1-1/8"-7NC	H-4	4	2-9/16"	5-3/4"	440-2398	
10-24NCH-1	4	7/8"	2-3/8"	440-2071	3/8"-24NF	H-4	4	1-1/4"	2-15/16"	440-2232	1-1/8"-12NFH	H-4	4	2-9/16"	5-3/4"	440-2	

# Cutting Tools



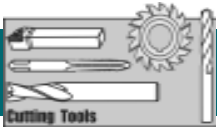
## HAND TAPS -BOTTOMING STYLE

Ground Thread, High Speed Steel



Size	H	No. Of	Thread	Overall	Model No.	Size	H	No. Of	Thread	Overall	Model No.	Size	H	No. Of	Thread	Overall	Model 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"	3-3/8"	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"	3-3/8"	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"	3-3/8"	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"	3-3/8"	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"	3-3/8"	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"	3-3/8"	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

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# Cutting Tools

## SPIRAL POINT TAPS-PLUG STYLE

Ground Thread, High Speed Steel



Size	No. Of Flute	H Limit	Model 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

Size	No. Of Flute	H Limit	Model No.
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
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
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

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## + 0.005" OVERSIZED SPIRAL POINTED TAPS

High Speed Steel, Ground Steel, Plug Type



Size	No. Of Flute	Model No.
4-40	2	312-7102
5-40	2	312-7104
6-32	2	312-7106
8-32	2	312-7108
10-24	2	312-7110
10-32	2	312-7112
1/4"-20	2	312-7114
1/4"-28	2	312-7116
5/16"-18	2	312-7118
5/16"-24	2	312-7120
3/8"-16	3	312-7122
3/8"-24	3	312-7124
7/16"-14	3	312-7126

Size	No. Of Flute	Model No.
7/16"-20	3	312-7128
1/2"-13	3	312-7130
1/2"-20	3	312-7132
9/16"-12	3	312-7134
9/16"-18	3	312-7136
5/8"-11	3	312-7138
5/8"-18	3	312-7140
3/4"-10	3	312-7142
3/4"-16	3	312-7144
7/8"-9	3	312-7146
7/8"-14	3	312-7148
1-8	3	312-7150

## + 0.005" OVERSIZED TAPS

High Speed Steel, Ground Steel, Plug Type



Size	No. Of Flute	Model No.
6-32	4	312-7001
8-32	4	312-7002
10-24	4	312-7003
10-32	4	312-7004
1/4"-20	4	312-7005
1/4"-28	4	312-7006
5/16"-18	4	312-7007
5/16"-24	4	312-7008
3/8"-16	4	312-7009
3/8"-24	4	312-7010
7/16"-14	4	312-7011
7/16"-20	4	312-7012
1/2"-13	4	312-7013
1/2"-20	4	312-7014

Size	No. Of Flute	Model No.
9/16"-12	4	312-7015
9/16"-18	4	312-7016
5/8"-11	4	312-7017
5/8"-18	4	312-7018
3/4"-10	4	312-7019
3/4"-16	4	312-7020
7/8"-9	4	312-7021
7/8"-14	4	312-7022
1-8	4	312-7023
1-12	4	312-7024
1-14	4	312-7025
4-40	3	312-7030
5-40	3	312-7035

# Cutting Tools



## TIN COATED HAND TAPS -PLUG STYLE Fractional Sizes

### Machine Screw Sizes



Size	No. Of Flute	Thread Length	Tin Coated Model No.
0-80	2	5/16"	311-1979
1-64	2	3/8"	311-1982
1-72	2	3/8"	311-1985
2-56	3	7/16"	311-1988
2-64	3	7/16"	311-1993
3-48	3	1/2"	311-1994
3-56	3	1/2"	311-1997
4-30	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
8-32	4	3/4"	311-2023
8-36	4	3/4"	311-2024
10-24	4	7/8"	311-2027
10-32	4	7/8"	311-2030
12-24	4	15/16"	311-2033
12-28	4	15/16"	311-2036

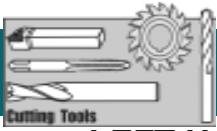
Size	No. Of Flute	Thread Length	Tin Coated Model No.
1/4"-20	4	1"	311-2039
1/4"-28	4	1"	311-2042
5/16"-18	4	1-1/8"	311-2045
5/16"-24	4	1-1/8"	311-2048
3/8"-16	4	1-1/4"	311-2053
3/8"-24	4	1-1/4"	311-2054
7/16"-14	4	1-7/16"	311-2057
7/16"-20	4	1-7/16"	311-2060
1/2"-13	4	1-21/32"	311-2063
1/2"-20	4	1-21/32"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

## SPECIAL THREAD HAND TAP-PLUG STYLE

### Ground Thread, High Speed Steel



Size	Model No.	Size	Model No.	Size	Model No.	Size	Model No.	Size	Model No.	Size	Model No.
1/4-24	311-4600	11/16-32	311-4668	1-1/8-16	311-4738	1-7/16-16	311-4798	1-13/16-8	311-4858	2-1/4"-20	311-4917
1/4-32	311-4602	3/4-12	311-4670	1-1/8-18	311-4740	1-7/16-18	311-4800	1-13/16-16	311-4860	2-3/8-4-1/2	311-4918
1/4-40	311-4604	3/4-18	311-4672	1-1/8-32	311-4742	1-1/2-8	311-4802	1-13/16-18	311-4862	2-3/8-8	311-4920
5/16-20	311-4606	3/4-20	311-4674	1-3/16-8	311-4744	1-1/2-10	311-4804	1-13/16-20	311-4863	2-3/8-12	311-4922
5/16-32	311-4608	3/4-24	311-4676	1-3/16-10	311-4746	1-1/2"-14	311-4805	1-7/8-5	311-4864	2-3/8-14	311-4924
5/16-40	311-4610	3/4-27	311-4678	1-3/16-12	311-4748	1-1/2-16	311-4806	1-7/8-7	311-4866	2-1/2-4	311-4926
3/8-14	311-4612	3/4-32	311-4680	1-3/16-14	311-4750	1-1/2-18	311-4808	1-7/8-8	311-4868	2-1/2-6	311-4928
3/8-18	311-4614	13/16-16	311-4682	1-3/16-16	311-4752	1-1/2-20	311-4810	1-7/8-10	311-4870	2-1/2-8	311-4930
3/8-20	311-4616	13/16-20	311-4684	1-3/16-18	311-4754	1-1/2"-24	311-4811	1-7/8-12	311-4872	2-1/2-12	311-4932
3/8-32	311-4618	13/16-32	311-4686	1-3/16-20	311-4756	1-9/16-12	311-4812	1-7/8-16	311-4874	2-1/2-16	311-4934
7/16-24	311-4620	7/8-12	311-4688	1-3/16-24	311-4758	1-9/16"-16	311-4813	1-7/8-18	311-4876	2-1/2-18	311-4936
7/16-27	311-4622	7/8-16	311-4690	1-3/16-32	311-4760	1-9/16-18	311-4814	1-7/8-20	311-4878	2-5/8-8	311-4938
15/32-32	311-4624	7/8-18	311-4692	1-1/4-8	311-4762	1-9/16-20	311-4816	1-15/16-12	311-4880	2-5/8-12	311-4940
1/2-12	311-4626	7/8-20	311-4694	1-1/4-10	311-4764	1-5/8-5-1/2	311-4818	1-15/16-16	311-4882	2-5/8-16	311-4942
1/2-14	311-4628	15/16-12	311-4696	1-1/4-14	311-4766	1-5/8-8	311-4820	2"-4-1/2	311-4884	2-5/8-18	311-4944
1/2-16	311-4630	15/16-16	311-4698	1-1/4-16	311-4768	1-5/8-10	311-4822	2"-6	311-4886	2-3/4-4	311-4946
1/2-18	311-4632	15/16-20	311-4700	1-1/4-18	311-4770	1-5/8-12	311-4824	2"-8	311-4888	2-3/4-8	311-4948
1/2-28	311-4633	15/16-27	311-4702	1-1/4-20	311-4772	1-5/8-14	311-4826	2"-10	311-4890	2-3/4-12	311-4950
1/2-24	311-4634	15/16-32	311-4704	1-1/4-24	311-4773	1-5/8-16	311-4828	2"-12	311-4892	2-3/4-16	311-4952
1/2-32	311-4636	1"-10	311-4706	1-1/4"-32	311-4774	1-5/8-18	311-4830	2"-14	311-4894	2-3/4-18	311-4954
9/16-10	311-4638	1"-16	311-4708	1-1/4"-40	311-4775	1-5/8-20	311-4832	2"-16	311-4896	2-7/8-8	311-4956
9/16-16	311-4640	1"-18	311-4710	1-5/16-8	311-4776	1-5/8-24	311-4834	2"-20	311-4898	2-7/8-12	311-4958
9/16-20	311-4642	1"-20	311-4712	1-5/16-12	311-4778	1-11/16-12	311-4836	2-1/8-8	311-4900	2-7/8-16	311-4960
9/16-24	311-4644	1"-32	311-4714	1-5/16-16	311-4780	1-11/16-16	311-4837	2-1/8-10	311-4901	3"-4	311-4962
5/8-12	311-4646	1-1/16-8	311-4716	1-5/16-18	311-4782	1-11/16"-18	311-4838	2-1/8-12	311-4902	3"-8	311-4964
5/8-16	311-4648	1-1/16-10	311-4718	1-5/16-20	311-4783	1-11/16"-20	311-4839	2-1/8"-16	311-4903	3"-12	311-4966
5/8-20	311-4650	1-1/16-12	311-4720	1-3/8-8	311-4784	1-3/4-5	311-4840	2-1/8"-18	311-4904	3-1/4"-4	311-4968
5/8-24	311-4652	1-1/16-14	311-4722	1-3/8-10	311-4786	1-3/4-6	311-4842	2-1/8"-20	311-4905	3-1/4"-8	311-4970
5/8-32	311-4654	1-1/16-16	311-4724	1-3/8-14	311-4788	1-3/4-8	311-4844	2-3/16-20	311-4906	3-1/4"-12	311-4972
5/8-36	311-4656	1-1/16-18	311-4726	1-3/8-16	311-4790	1-3/4-10	311-4846	2-1/4-4-1/2	311-4908	3-1/2"-4	311-4974
11/16-11	311-4658	1-1/16-20	311-4728	1-3/8-18	311-4792	1-3/4-12	311-4848	2-1/4-8	311-4910	3-1/2"-8	311-4976
11/16-16	311-4660	1-1/16-24	311-4730	1-3/8-20	311-4794	1-3/4-16	311-4850	2-1/4-12	311-4912	3-1/2"-12	311-4978
11/16-18	311-4662	1-1/16-32	311-4732	1-3/8"-24	311-4795	1-3/4-18	311-4852	2-1/4-14	311-4914	3-3/4"-4	311-4980
11/16-20	311-4664	1-1/8-8	311-4734	1-7/16-8	311-4796	1-3/4-20	311-4854	2-1/4-16	311-4915	3-3/4"-12	311-4982
11/16-24	311-4666	1-1/8-10	311-4736	1-7/16-12	311-4797	1-3/4-24	311-4856	2-1/4"-18	311-4916	4"-8	311-4984
										4"-12	311-4986



# Cutting Tools

## LEFT HAND TAPS-PLUG STYLE

Ground Thread, High Speed Steel



Size	H.S.S. Model No.	Carbon Steel Model No.
0-80	311-5002	312-5002
1-64	311-5012	312-5012
1-72	311-5022	312-5022
2-56	311-5032	312-5032
2-64	311-5042	312-5042
3-48	311-5052	312-5052
3-56	311-5062	312-5062
4-40	311-5072	312-5072
4-48	311-5082	312-5082
5-40	311-5092	312-5092
5-44	311-5102	312-5102
6-32	311-5112	312-5112
6-40	311-5122	312-5122
8-32	311-5132	312-5132
8-36	311-5142	312-5142
10-24	311-5152	312-5152
10-32	311-5162	312-5162
12-24	311-5172	312-5172
12-28	311-5182	312-5182
14-24	311-5192	312-5192
1/4-20	311-5202	312-5202
1/4-28	311-5212	312-5212
5/16-18	311-5222	312-5222
5/16-24	311-5232	312-5232
3/8-16	311-5242	312-5242
3/8-24	311-5252	312-5252
7/16-14	311-5262	312-5262
7/16-20	311-5272	312-5272
1/2-13	311-5282	312-5282

Size	H.S.S. Model No.	Carbon Steel Model No.
1/2-20	311-5292	312-5292
9/16-12	311-5302	312-5302
9/16-18	311-5312	312-5312
5/8-11	311-5322	312-5322
5/8-18	311-5332	312-5332
3/4-10	311-5342	312-5342
3/4-16	311-5352	312-5352
7/8-9	311-5362	312-5362
7/8-14	311-5372	312-5372
1-8	311-5382	312-5382
1-12	311-5392	312-5392
1-14	311-5402	312-5402
1-1/8-7	311-5412	312-5412
1-1/8-12	311-5422	312-5422
1-1/4-7	311-5432	312-5432
1-1/4-10	311-5442	312-5442
1-1/4-12	311-5452	312-5452
1-3/8-6	311-5462	312-5462
1-3/8-12	311-5472	312-5472
1-1/2-6	311-5482	312-5482
1-1/2-12	311-5492	312-5492
1-5/8-5	311-5502	312-5502
1-3/4-5	311-5512	312-5512
2-6	311-5522	312-5522
2-1/4-4	311-5532	312-5532
2-1/4-1/2	311-5542	312-5542
2-1/4-8	311-5552	312-5552
2-1/2-4	311-5562	312-5562
2-1/2-6	311-5572	312-5572

## METRIC HAND TAPS-TAPER,BOTTOMING & SET

High Speed Steel, Ground Thread



Size	Bottoming Model No.	Taper Model No.	Set Model No.
2.0x.20mm	311-4003	311-4001	311-4004
2.0x.25mm	311-4013	311-4011	311-4014
2.0x.40mm	311-4023	311-4021	311-4024
2.0x.45mm	311-4033	311-4031	311-4034
2.2x.45mm	311-4043	311-4041	311-4044
2.5x.45mm	311-4053	311-4051	311-4054
3.0x.35mm	311-4063	311-4061	311-4064
3.0x.50mm	311-4073	311-4071	311-4074
3.5x.35mm	311-4083	311-4081	311-4084
3.5x.60mm	311-4093	311-4091	311-4094
4.0x.50mm	311-4103	311-4101	311-4104
4.0x.70mm	311-4113	311-4111	311-4114
4.0x.75mm	311-4123	311-4121	311-4124
4.5x.75mm	311-4133	311-4131	311-4134
5.0x.50mm	311-4143	311-4141	311-4144
5.0x.90mm	311-4153	311-4151	311-4154
5.0x.80mm	311-4163	311-4161	311-4164
5.5x.90mm	311-4173	311-4171	311-4174
6.0x.50mm	311-4183	311-4181	311-4184
6.0x.75mm	311-4193	311-4191	311-4194
6.0x1.00mm	311-4203	311-4201	311-4204
7.0x.75mm	311-4213	311-4211	311-4214
7.0x1.00mm	311-4223	311-4221	311-4224
8.0x1.00mm	311-4233	311-4231	311-4234
8.0x1.25mm	311-4243	311-4241	311-4244
9.0x1.00mm	311-4253	311-4251	311-4254
9.0x1.25mm	311-4263	311-4261	311-4264
10.0x1.00mm	311-4273	311-4271	311-4274
10.0x1.25mm	311-4283	311-4281	311-4284

Size	Bottoming Model No.	Taper Model No.	Set Model No.
10.0x1.00mm	311-4293	311-4291	311-4294
10.0x1.50mm	311-4303	311-4301	311-4304
11.0x1.00mm	311-4313	311-4311	311-4314
11.0x1.50mm	311-4323	311-4321	311-4324
12.0x1.25mm	311-4333	311-4331	311-4334
12.0x1.50mm	311-4343	311-4341	311-4344
12.0x1.75mm	311-4353	311-4351	311-4354
14.0x1.25mm	311-4363	311-4361	311-4364
14.0x1.50mm	311-4373	311-4371	311-4374
14.0x2.00mm	311-4383	311-4381	311-4384
16.0x1.00mm	311-4393	311-4391	311-4394
16.0x1.50mm	311-4403	311-4401	311-4404
16.0x2.00mm	311-4413	311-4411	311-4414
18.0x1.50mm	311-4423	311-4421	311-4424
18.0x2.00mm	311-4433	311-4431	311-4434
18.0x2.50mm	311-4443	311-4441	311-4444
20.0x2.00mm	311-4453	311-4451	311-4454
20.0x2.50mm	311-4463	311-4461	311-4464
22.0x2.00mm	311-4473	311-4471	311-4474
22.0x2.50mm	311-4483	311-4481	311-4484
24.0x2.00mm	311-4493	311-4491	311-4494
24.0x3.00mm	311-4503	311-4501	311-4504
26.0x1.50mm	311-4513	311-4511	311-4514
28.0x2.00mm	311-4523	311-4521	311-4524
30.0x2.00mm	311-4533	311-4531	311-4534
30.0x3.50mm	311-4543	311-4541	311-4544
33.0x2.00mm	311-4553	311-4551	311-4554
39.0x3.00mm	311-4563	311-4561	311-4564
42.0x2.00mm	311-4573	311-4571	311-4574
48.0x2.00mm	311-4583	311-4581	311-4584

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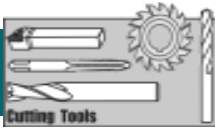
## METRIC HAND TAPS-PLUG TAPS

High Speed Steel- Ground Thread



Size	Thread Limits	No. Of Flute	Model No.
1.50x0.35mm	D-1	2	411-2004
1.60x0.35mm	D-1	2	411-2006
1.60x0.35mm	D-3	2	411-2008
1.80x0.35mm	D-1	2	411-2010
1.80x0.35mm	D-2	2	411-2012
1.80x0.35mm	D-3	2	411-2014
2.00x0.40mm	D-1	3	411-2018
2.00x0.40mm	D-3	3	411-2020
2.00x0.45mm	D-2	3	411-2022
2.20x0.45mm	D-1	3	411-2024
2.20x0.45mm	D-2	3	411-2026
2.20x0.45mm	D-3	3	411-2028
2.30x0.40mm	D-3	3	411-2030
2.50x0.45mm	D-1	3	411-2032
2.50x0.45mm	D-3	3	411-2034
2.60x0.45mm	D-2	3	411-2036
2.60x0.45mm	D-3	3	411-2037
3.00x0.50mm	D-1	3	411-2040
3.00x0.50mm	D-3	3	411-2042
3.00x0.60mm	D-3	3	411-2046
3.50x0.60mm	D-1	3	411-2050
3.50x0.60mm	D-4	3	411-2052
4.00x0.50mm	D-4	4	411-2054
4.00x0.70mm	D-1	4	411-2056
4.00x0.70mm	D-4	4	411-2058
4.00x0.75mm	D-4	4	411-2060
4.50x0.75mm	D-2	4	411-2066
4.50x0.75mm	D-4	4	411-2068
5.00x0.50mm	D-4	4	411-2070
5.00x0.8 mm	D-2	4	411-2076
5.00x0.8 mm	D-4	4	411-2078
5.00x0.90mm	D-3	4	411-2080
6.00x0.50mm	D-4	4	411-2084
6.00x0.75mm	D-3	4	411-2086
6.00x0.75mm	D-4	4	411-2087
6.00x1.00mm	D-3	4	411-2088
6.00x1.00mm	D-5	4	411-2090
6.30x1.00mm	D-5	4	411-2094
7.00x1.00mm	D-3	4	411-2100
7.00x1.00mm	D-5	4	411-2102
8.00x0.75mm	D-4	4	411-2108
8.00x1.00mm	D-3	4	411-2110
8.00x1.00mm	D-5	4	411-2112
8.00x1.25mm	D-3	4	411-2114
8.00x1.25mm	D-5	4	411-2116
9.00x1.25mm	D-4	4	411-2122
10.00x0.75mm	D-5	4	411-2128
10.00x1.00mm	D-5	4	411-2130
10.00x1.25mm	D-3	4	411-2132
10.00x1.25mm	D-5	4	411-2134
10.00x1.50mm	D-3	4	411-2136
10.00x1.50mm	D-6	4	411-2138
11.00x1.00mm	D-3	4	411-2142
11.00x1.50mm	D-5	4	411-2146
11.00x1.50mm	D-6	4	411-2147
12.00x1.00mm	D-5	4	411-2150
12.00x1.25mm	D-3	4	411-2152
12.00x1.25mm	D-5	4	411-2154
12.00x1.50mm	D-5	4	411-2156
12.00x1.75mm	D-3	4	411-2158
12.00x1.75mm	D-6	4	411-2160
14.00x1.00mm	D-6	4	411-2178
14.00x1.25mm	H-4	4	411-2180
14.00x1.25mm	D-6	4	411-2181

Size	Thread Limits	No. Of Flute	Model No.
14.00x1.50mm	D-3	4	411-2182
14.00x1.50mm	D-6	4	411-2184
14.00x2.00mm	D-3	4	411-2188
14.00x2.00mm	D-7	4	411-2190
16.00x1.00mm	D-6	4	411-2198
16.00x1.50mm	D-3	4	411-2202
16.00x1.50mm	D-6	4	411-2204
16.00x2.00mm	D-4	4	411-2206
16.00x2.00mm	D-7	4	411-2208
18.00x1.00mm	D-6	4	411-2214
18.00x1.50mm	D-3	4	411-2218
18.00x1.50mm	H-4	4	411-2220
18.00x1.50mm	D-6	4	411-2222
18.00x2.00mm	D-6	4	411-2223
18.00x2.50mm	D-4	4	411-2224
18.00x2.50mm	D-7	4	411-2226
20.00x1.00mm	D-7	4	411-2230
20.00x1.50mm	D-3	4	411-2234
20.00x1.50mm	D-6	4	411-2236
20.00x2.00mm	D-6	4	411-2238
20.00x2.50mm	D-4	4	411-2240
20.00x2.50mm	D-7	4	411-2242
22.00x1.00mm	D-6	4	411-2244
22.00x1.50mm	D-3	4	411-2246
22.00x1.50mm	D-6	4	411-2248
22.00x2.00mm	D-6	4	411-2249
22.00x2.50mm	D-4	4	411-2250
22.00x2.50mm	D-6	4	411-2252
22.00x2.50mm	D-7	4	411-2254
24.00x1.00mm	D-7	4	411-2256
24.00x1.50mm	D-7	4	411-2258
24.00x2.00mm	D-4	4	411-2260
24.00x2.00mm	D-7	4	411-2262
24.00x3.00mm	D-4	4	411-2264
24.00x3.00mm	D-8	4	411-2266
27.00x1.50mm	D-7	4	411-2272
27.00x2.00mm	D-5	4	411-2274
27.00x2.00mm	D-7	4	411-2276
27.00x3.00mm	D-8	4	411-2278
27.00x3.00mm	D-9	4	411-2280
30.00x1.50mm	D-7	4	411-2284
30.00x2.00mm	D-5	4	411-2286
30.00x2.00mm	D-7	4	411-2288
30.00x3.50mm	D-5	4	411-2292
30.00x3.50mm	D-9	4	411-2294
32.00x2.00mm	D-7	4	411-2296
32.00x2.00mm	D-7	6	411-2298
33.00x2.00mm	D-5	4	411-2300
33.00x2.00mm	D-7	6	411-2302
33.00x3.50mm	D-5	4	411-2304
33.00x3.50mm	D-9	4	411-2306
36.00x3.00mm	D-5	4	411-2308
36.00x3.00mm	D-8	4	411-2310
36.00x3.60mm	D-9	4	411-2312
36.00x4.00mm	D-5	4	411-2314
36.00x4.00mm	D-9	4	411-2316
38.00x4.00mm	D-9	4	411-2317
39.00x3.00mm	D-6	4	411-2318
39.00x3.00mm	D-8	6	411-2320
39.00x4.00mm	D-6	4	411-2322
39.00x4.00mm	D-9	4	411-2324
42.00x4.5mm	D-1	6	411-2326
45.00x4.50mm	D-1	6	411-2328
48.00x4.50mm	D-1	6	411-2330
48.00x5.00mm	D-1	6	411-2332



# Cutting Tools

## RIGHT & LEFT HAND ACME TAPS

High Speed Steel

Right Hand

Size	Right Hand Model 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	Left Hand Model 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

Tandem Style, High Speed Steel, Ground Thread



Size	Thread Length	Overall length	Maximum Depth of Bronze or Steel Nut	Maximum Depth of Brass or Cast Iron Nut	Model 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	Model No.
1/4"-20NC	4	H-3	4"	312-0402
5/16"-18NC	4	H-3	4"	312-0404
3/8"-16NC	4	H-3	4"	312-0406
6-32NC	3	H-3	6"	312-0502
6-40NF	3	H-2	6"	312-0504
8-32NC	3	H-3	6"	312-0506
8-36NF	3	H-3	6"	312-0508
10-24NC	3	H-3	6"	312-0510
10-32NF	3	H-3	6"	312-0512
1/4"-20NC	4	H-3	6"	312-0514
1/4"-28NF	4	H-3	6"	312-0516
5/16"-18NC	4	H-3	6"	312-0518
5/16"-24NF	4	H-3	6"	312-0520
3/8"-16NC	4	H-3	6"	312-0522
3/8"-24NF	4	H-3	6"	312-0524
7/16"-14NC	4	H-3	6"	312-0526
7/16"-20NF	4	H-3	6"	312-0528
1/2"-13NC	4	H-3	6"	312-0530
1/2"-20NF	4	H-3	6"	312-0532
5/8"-11NC	4	H-3	6"	312-0534
5/8"-18NF	4	H-3	6"	312-0536
3/4"-10NC	4	H-3	6"	312-0538
7/8"-9NC	4	H-4	6"	312-0540
1/4"-20NC	4	H-3	8"	312-0602
1/4"-28NF	4	H-3	8"	312-0604
5/16"-18NC	4	H-3	8"	312-0606



Size	No. Of Flute	H limit	Overall Length	Model No.
5/16"-24NF	4	H-3	8"	312-0608
3/8"-16NC	4	H-3	8"	312-0610
3/8"-24NF	4	H-3	8"	312-0612
7/16"-14NC	4	H-3	8"	312-0614
7/16"-20NF	4	H-3	8"	312-0616
1/2"-13NC	4	H-3	8"	312-0618
1/2"-20NF	4	H-3	8"	312-0620
5/8"-11NC	4	H-3	8"	312-0622
5/8"-18NF	4	H-3	8"	312-0624
3/4"-10NC	4	H-3	8"	312-0626
7/8"-9NC	4	H-4	8"	312-0628
1"-8NC	4	H-4	8"	312-0630
3/8"-16NC	4	H-3	10"	312-0702
3/8"-24NF	4	H-3	10"	312-0704
7/16"-14NC	4	H-3	10"	312-0706
7/16"-20NF	4	H-3	10"	312-0708
1/2"-13NC	4	H-3	10"	312-0709
5/8"-11NC	4	H-3	10"	312-0710
3/4"-10NC	4	H-3	10"	312-0712
7/8"-9NC	4	H-4	10"	312-0714
3/8"-16NC	4	H-3	12"	312-0802
7/16"-14NC	4	H-3	12"	312-0804
1/2"-13NC	4	H-3	12"	312-0806
5/8"-11NC	4	H-3	12"	312-0808
5/8"-18NF	4	H-3	12"	312-0810
3/4"-10NC	4	H-3	12"	312-0812
1"-8NC	4	H-4	12"	312-0814

## SINGLE PASS COMBINATION DRILL & TAPS

High Speed Steel, Ground Thread



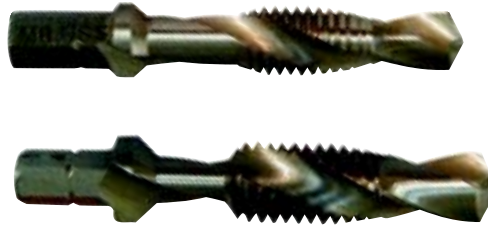
Size	Thread Limit	Drill Length	Drill Length	Drill Size	Overall Length	H.S.S Model No.	Tin Coated Model No.
3x.5mm	D-3	9/32"	.1015"	13/32"	1-15/16"	312-0162	312-0262
3.5x.6mm	D-4	5/16"	.1180"	7/16"	2"	312-0164	312-0264
4x.7mm	D-4	3/8"	.1340"	1/2"	2-1/8"	312-0166	312-0266
4.5x.75mm	D-4	13/32"	.1520"	5/8"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

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



## SINGLE PASS COMBINATION DRILL & TAPS

High Speed Steel,  
Ground Thread,  
German Pattern



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

## METRIC NUT TAP

High Speed Steel,  
Right Hand,  
DIN 357

Size	Model No.
M3x0.5mm	311-1503
M4x0.7mm	311-1504
M5x0.8mm	311-1505
M6x1.0mm	311-1506
M8x1.25mm	311-1508
M10x1.50mm	311-1510
M12x1.75mm	311-1512



## DIN352 HAND TAP

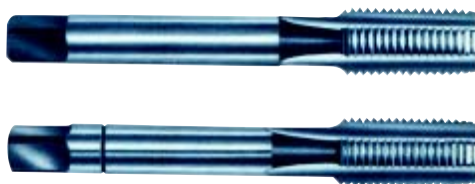
3 Piece,  
High Speed Steel,



Size	Individual			Set
	Taper "A"	Taper "B"	Taper "C"	Model No.
M2-0.4mm	324-1020	324-2020	324-3020	311-1219
M2.5-0.45mm	324-1025	324-2025	324-3025	311-1221
M2.6-0.45mm	324-1026	324-2026	324-3026	311-1226
M3-0.5mm	324-1030	324-2030	324-3030	311-1203
M3.5-0.6mm	324-1035	324-2035	324-3035	311-1235
M4-0.7mm	324-1040	324-2040	324-3040	311-1204
M5-0.8mm	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
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

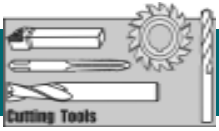
## MF DIN2181 HAND TAP

2 Piece  
High Speed Steel



Size	Model No.
M3-0.35mm	311-1302
M4-0.35mm	311-1304
M4-0.5mm	311-1306
M5-0.5mm	311-1308
M6-0.75mm	311-1310
M8-0.75mm	311-1312
M8-1.0mm	311-1314
M10-1.0mm	311-1316
M10-1.25mm	311-1318
M12-1.0mm	311-1320
M12-1.25mm	311-1322

Size	Model No.
M12-1.5mm	311-1324
M14-1.0mm	311-1326
M14-1.25mm	311-1328
M14-1.5mm	311-1330
M16-1.0mm	311-1332
M16-1.5mm	311-1334
M18-1.5mm	311-1336
M20-1.5mm	311-1338
M22-1.5mm	311-1340
M24-1.5mm	311-1342



# Cutting Tools

## DIN 351 HAND TAP SETS

3 Piece,  
High Speed Steel,  
Right Hand

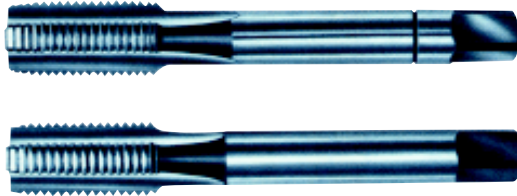


Size	Overall Length	Model No.
1/16"-60	32mm	311-3004
3/32"-48	36mm	311-3006
1/8"-40	40mm	311-3008
5/32"-32	45mm	311-3010
3/16"-24	50mm	311-3012
7/32"-24	50mm	311-3014
1/4"-20	56mm	311-3016
5/16"-18	63mm	311-3020
3/8"-16	70mm	311-3024
7/16"-14	75mm	311-3028
1/2"-12	80mm	311-3032
9/16"-12	80mm	311-3036

Size	Overall Length	Model No.
5/8"-11	90mm	311-3040
3/8"-10	105mm	311-3048
7/8"-9	110mm	311-3056
1"-8	110mm	311-3100
1-1/8"-7	132mm	311-3108
1-1/4"-7	132mm	311-3116
1-3/8"-6	150mm	311-3124
1-1/2"-6	150mm	311-3132
1-5/8"-5	160mm	311-3140
1-3/4"-5	160mm	311-3148
1-7/8"-4-1/2	190mm	311-3156
2"-4-1/2	190mm	311-3200

## DIN5157/DIN353 HAND TAP

2 Piece set, High Speed, Right Hand



Size	Overall Length	Thread Length	Model No.
1/8"	63	18	311-1008
1/4"	63	20	311-1016
3/8"	70	20	311-1024
1/2"	80	22	311-1032
5/8"	90	25	311-1040
3/4"	100	28	311-1048
7/8"	100	28	311-1056
1"	110	32	311-1064
1-1/8"	110	32	311-1065
1-1/4"	125	32	311-1066
1-3/8"	125	32	311-1067
1-1/2"	140	32	311-1068
1-3/4"	160	36	311-1069
2"	160	36	311-1070
2-1/4"	160	36	311-1071
2-1/2"	160	36	311-1072
2-3/4"	160	40	311-1073
3"	160	40	311-1074
3-1/4"	180	45	311-1075
3-1/2"	180	45	311-1076
3-3/4"	180	45	311-1077
4"	180	45	311-1078

## DIN371 METRIC MACHINE TAP

High Speed Steel, Thread Ground

Right Hand



H. S. S.	Straight Flute Taper "A"	Straight Flute Bottom "C"	Spiral Point	Spiral Flute 15° Flute	Spiral Flute 35° Flute
Size	Model No.	Model No.	Model No.	Model No.	Model No.
M2-0.4mm	311-1602	311-1702	311-1612	311-1622	311-1722
M3-0.5mm	311-1603	311-1703	311-1613	311-1623	311-1723
M4-0.7mm	311-1604	311-1704	311-1614	311-1624	311-1724
M5-0.8mm	311-1605	311-1705	311-1615	311-1625	311-1725
M6-1.0mm	311-1606	311-1706	311-1616	311-1626	311-1726
M8-1.25mm	311-1608	311-1708	311-1618	311-1628	311-1728
M10-1.5mm	311-1610	311-1710	311-1620	311-1630	311-1730

Tin Coated	Straight Flute Taper "A"	Straight Flute Bottom "C"	Spiral Point	Spiral Flute 15° Flute	Spiral Flute 35° Flute
Size	Model No.	Model No.	Model No.	Model No.	Model No.
M2-0.4mm	311-1632	311-1732	311-1642	311-1652	311-1752
M3-0.5mm	311-1633	311-1733	311-1643	311-1653	311-1753
M4-0.7mm	311-1634	311-1734	311-1644	311-1654	311-1754
M5-0.8mm	311-1635	311-1735	311-1645	311-1655	311-1755
M6-1.0mm	311-1636	311-1736	311-1646	311-1656	311-1756
M8-1.25mm	311-1638	311-1738	311-1648	311-1658	311-1758
M10-1.5mm	311-1640	311-1740	311-1650	311-1660	311-1760



## DIN371 METRIC MACHINE TAP, M35HSS

Co5 High Speed Steel, Thread Ground

Right Hand



M35 HSS	Straight Flute		Spiral Flute	Straight Flute	
	Taper "A"	Bottom "C"	Model No.	15Flute	35° Flute
	Model No.	Model No.		Model No.	Model No.
Size					
M2-0.4mm	311-1802	311-1902	311-1812	311-1922	311-1822
M3-0.5mm	311-1803	311-1903	311-1813	311-1923	311-1823
M4-0.7mm	311-1804	311-1904	311-1814	311-1924	311-1824
M5-0.8mm	311-1805	311-1905	311-1815	311-1925	311-1825
M6-1.0mm	311-1806	311-1906	311-1816	311-1926	311-1826
M8-1.25mm	311-1808	311-1908	311-1818	311-1928	311-1828
M10-1.5mm	311-1810	311-1910	311-1820	311-1920	311-1820

M35 HSS Tin-Coated	Straight Flute		Spiral Flute	Straight Flute	
	Taper "A"	Bottom "C"	Model No.	15Flute	35° Flute
	Model No.	Model No.		Model No.	Model No.
Size					
M2-0.4mm	311-1832	311-1932	311-1842	311-1952	311-1822
M3-0.5mm	311-1833	311-1933	311-1843	311-1953	311-1823
M4-0.7mm	311-1834	311-1934	311-1844	311-1954	311-1824
M5-0.8mm	311-1835	311-1935	311-1845	311-1955	311-1825
M6-1.0mm	311-1836	311-1936	311-1846	311-1956	311-1826
M8-1.25mm	311-1838	311-1938	311-1848	311-1958	311-1828
M10-1.5mm	311-1840	311-1940	311-1850	311-1960	311-1820

## DIN376 METRIC MACHINE TAP

H. S. S.

High Speed Steel, Thread Ground

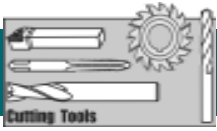
Right Hand



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

Tin Coated

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



# Cutting Tools

## DIN376 METRIC MACHINE TAP,M35HSS

Co5 High Speed,Thread Ground  
Right Hand



M35 HSS	Straight Flute		Spiral Point	Straight Flute	
	Taper "A" Model No.	Bottom "C" Model No.		15° Flute Model No.	35° Flute Model No.
Size			Model No.		
M3-0.5mm	311-2703	311-2903	311-2733	311-2963	311-2763
M4-0.7mm	311-2704	311-2904	311-2734	311-2964	311-2764
M5-0.8mm	311-2705	311-2905	311-2735	311-2965	311-2765
M6-1.0mm	311-2706	311-2906	311-2736	311-2966	311-2766
M8-1.25mm	311-2708	311-2908	311-2738	311-2968	311-2768
M10-1.5mm	311-2710	311-2910	311-2740	311-2970	311-2770
M12-1.75mm	311-2712	311-2912	311-2742	311-2972	311-2772
M14-2.0mm	311-2714	311-2914	311-2744	311-2974	311-2774
M16-2.0mm	311-2716	311-2916	311-2746	311-2976	311-2776
M18-2.5mm	311-2718	311-2918	311-2748	311-2978	311-2778
M20-2.5mm	311-2720	311-2920	311-2750	311-2980	311-2780
M22-2.5mm	311-2722	311-2922	311-2752	311-2982	311-2782
M24-3.0mm	311-2724	311-2924	311-2754	311-2984	311-2784
M27-3.0mm	311-2727	311-2927	311-2757	311-2987	311-2787
M30-3.5mm	311-2730	311-2930	311-2760	311-2990	311-2790

M35 HSS Tin-Coated	Straight Flute		Spiral Point	Straight Flute	
	Taper "A" Model No.	Bottom "C" Model No.		15° Flute Model No.	35° Flute Model No.
Size			Model No.		
M3-0.5mm	311-2803	311-3303	311-2833	311-3363	311-2863
M4-0.7mm	311-2804	311-3304	311-2834	311-3364	311-2864
M5-0.8mm	311-2805	311-3305	311-2835	311-3365	311-2865
M6-1.0mm	311-2806	311-3306	311-2836	311-3366	311-2866
M8-1.25mm	311-2808	311-3308	311-2838	311-3368	311-2868
M10-1.5mm	311-2810	311-3310	311-2840	311-3370	311-2870
M12-1.75mm	311-2812	311-3312	311-2842	311-3372	311-2872
M14-2.0mm	311-2814	311-3314	311-2844	311-3374	311-2874
M16-2.0mm	311-2816	311-3316	311-2846	311-3376	311-2876
M18-2.5mm	311-2818	311-3318	311-2848	311-3378	311-2878
M20-2.5mm	311-2820	311-3320	311-2850	311-3380	311-2880
M22-2.5mm	311-2822	311-3322	311-2852	311-3382	311-2882
M24-3.0mm	311-2824	311-3324	311-2854	311-3384	311-2884
M27-3.0mm	311-2827	311-3327	311-2857	311-3387	311-2887
M30-3.5mm	311-2830	311-3330	311-2860	311-3390	311-2890

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## NPT & NPTF TAPER PIPE TAPS

H.S.S, Ground Thread.



Size	No. Of Flute	Flute Length	Overall Length	NPT Model No.	NPTF Model 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



## NPT TAPER PIPE TAPS

Carbon Steel, Ground Thread

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



## NPT TAPER PIPE TAP- INTERRUPTED THREAD

High Speed Steel.  
Ground Thread



Size	No. OF Flute	Thread Length	Overall Length	Model No.
1/16"-27	5	3/4"	2-1/8"	311-6105
1/8"-27 Small Shank	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

## NPS STRAIGHT PIPE TAPS

High Speed Steel.  
Ground Thread



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

## TIN COATED TAPER PIPE TAP



Tap Size	No. Of Flute	Thread Length	Overall Length	Model 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	1-3/4	318-3335

## TIN COATED STRAIGHT PIPE TAP



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

## STRAIGHT PIPE TAPS

High Speed Steel, DIN 5156



Size	Overall Length	Thread Length	Model No.
G1/16-28	90	22	311-0400
G1/8-28	90	20	311-0402
G1/4-19	100	22	311-0404
G3/8-19	100	22	311-0406
G1/2-14	125	25	311-0408
G5/8-14	125	25	311-0410
G3/4-14	140	28	311-0412
G7/8-14	150	28	311-0414
G1-11	160	30	311-0416
G1-1/8-11	170	30	311-0418
G1-1/4-11	170	30	311-0420
G1-1/2-11	190	32	311-0422
G1-3/4-11	190	32	311-0424
G2-11	220	40	311-0426



# Cutting Tools

## STRAIGHT FLUTED MACHINE TAPS SPIRAL POINT TAPS

High Speed Steel, DIN 374

High Speed Steel, DIN 374

## SPIRAL FLUTED TAPS

High Speed Steel, DIN 374



Size	Overall Length	Thread Length	Model No.
M3x0.35	56	10	311-7200
M3.5x0.35	56	10	311-7201
M4x0.35	63	10	311-7202
M4x0.5	63	10	311-7203
M5x0.5	70	12	311-7204
M6x0.5	80	14	311-7205
M6x0.75	80	14	311-7206
M7x0.75	80	14	311-7207
M8x0.5	80	19	311-7208
M8x1	80	19	311-7209
M9x1	90	22	311-7210
M10x0.5	90	22	311-7211
M10x0.75	90	20	311-7212
M10x1	90	20	311-7213
M10x1.25	90	20	311-7214
M11x1	100	24	311-7215
M11x1.25	90	20	311-7216
M12x0.75	90	20	311-7217
M12x1	100	22	311-7218
M12x1.25	100	22	311-7219
M12x1.5	100	22	311-7220
M13x1	100	22	311-7221
M13x1.5	100	22	311-7222
M14x0.75	100	22	311-7223
M14x1	100	22	311-7224
M14x1.25	100	22	311-7225
M14x1.5	100	22	311-7226
M16x1	100	22	311-7227
M16x1.25	100	22	311-7228
M16x1.5	100	22	311-7229
M18x1	100	22	311-7230
M18x1.25	110	25	311-7231
M18x1.5	110	25	311-7232
M18x2	125	34	311-7233
M20x1	125	25	311-7234
M20x1.5	125	25	311-7235
M20x2	140	34	311-7236
M22x1	125	25	311-7237
M22x1.5	125	25	311-7238
M22x2	140	34	311-7239
M24x1	140	28	311-7240
M24x1.5	140	28	311-7241
M24x2	140	28	311-7242
M26x1.5	140	28	311-7243
M27x2	140	28	311-7244
M28x1.5	140	28	311-7245
M30x1.5	150	28	311-7246
M30x2	150	28	311-7247
M32x1.5	150	28	311-7248
M35x1.5	170	30	311-7249
M36x1.5	170	30	311-7250
M38x1.5	170	30	311-7251
M40x1.5	170	30	311-7252
M42x1.5	170	30	311-7253
M45x1.5	180	32	311-7254
M48x1.5	190	32	311-7255
M50x1.5	190	32	311-7256
M52x1.5	190	32	311-7257

Size	Overall Length	Thread Length	Model No.
M3x0.35	56	10	311-7000
M3.5x0.35	56	10	311-7001
M4x0.35	63	10	311-7002
M4x0.5	63	10	311-7003
M5x0.5	70	12	311-7004
M6x0.5	80	14	311-7005
M6x0.75	80	14	311-7006
M7x0.75	80	14	311-7007
M8x0.5	80	19	311-7008
M8x1	80	19	311-7009
M9x1	90	22	311-7010
M10x0.5	90	22	311-7011
M10x0.75	90	20	311-7012
M10x1	90	20	311-7013
M10x1.25	90	20	311-7014
M11x1	100	24	311-7015
M11x1.25	90	20	311-7016
M12x0.75	90	20	311-7017
M12x1	100	22	311-7018
M12x1.25	100	22	311-7019
M12x1.5	100	22	311-7020
M13x1	100	22	311-7021
M13x1.5	100	22	311-7022
M14x0.75	100	22	311-7023
M14x1	100	22	311-7024
M14x1.25	100	22	311-7025
M14x1.5	100	22	311-7026
M16x1	100	22	311-7027
M16x1.25	100	22	311-7028
M16x1.5	100	22	311-7029
M18x1	100	22	311-7030
M18x1.25	110	25	311-7031
M18x1.5	110	25	311-7032
M18x2	125	34	311-7033
M20x1	125	25	311-7034
M20x1.5	125	25	311-7035
M20x2	140	34	311-7036
M22x1	125	25	311-7037
M22x1.5	125	25	311-7038
M22x2	140	34	311-7039
M24x1	140	28	311-7040
M24x1.5	140	28	311-7041
M24x2	140	28	311-7042
M26x1.5	140	28	311-7043
M27x2	140	28	311-7044
M28x1.5	140	28	311-7045
M30x1.5	150	28	311-7046
M30x2	150	28	311-7047
M32x1.5	150	28	311-7048
M35x1.5	170	30	311-7049
M36x1.5	170	30	311-7050
M38x1.5	170	30	311-7051
M40x1.5	170	30	311-7052
M42x1.5	170	30	311-7053
M45x1.5	180	32	311-7054
M48x1.5	190	32	311-7055
M50x1.5	190	32	311-7056
M52x1.5	190	32	311-7057

Size	Overall Length	Thread Length	Model No.
M3x0.35	56	10	311-7100
M3.5x0.35	56	10	311-7101
M4x0.35	63	10	311-7102
M4x0.5	63	10	311-7103
M5x0.5	70	12	311-7104
M6x0.5	80	14	311-7105
M6x0.75	80	14	311-7106
M7x0.75	80	14	311-7107
M8x0.5	80	19	311-7108
M8x1	80	19	311-7109
M9x1	90	22	311-7110
M10x0.5	90	22	311-7111
M10x0.75	90	20	311-7112
M10x1	90	20	311-7113
M10x1.25	90	20	311-7114
M11x1	100	24	311-7115
M11x1.25	90	20	311-7116
M12x0.75	90	20	311-7117
M12x1	100	22	311-7118
M12x1.25	100	22	311-7119
M12x1.5	100	22	311-7120
M13x1	100	22	311-7121
M13x1.5	100	22	311-7122
M14x0.75	100	22	311-7123
M14x1	100	22	311-7124
M14x1.25	100	22	311-7125
M14x1.5	100	22	311-7126
M16x1	100	22	311-7127
M16x1.25	100	22	311-7128
M16x1.5	100	22	311-7129
M18x1	100	22	311-7130
M18x1.25	110	25	311-7131
M18x1.5	110	25	311-7132
M18x2	125	34	311-7133
M20x1	125	25	311-7134
M20x1.5	125	25	311-7135
M20x2	140	34	311-7136
M22x1	125	25	311-7137
M22x1.5	125	25	311-7138
M22x2	140	34	311-7139
M24x1	140	28	311-7140
M24x1.5	140	28	311-7141
M24x2	140	28	311-7142
M26x1.5	140	28	311-7143
M27x2	140	28	311-7144
M28x1.5	140	28	311-7145
M30x1.5	150	28	311-7146
M30x2	150	28	311-7147
M32x1.5	150	28	311-7148
M35x1.5	170	30	311-7149
M36x1.5	170	30	311-7150
M38x1.5	170	30	311-7151
M40x1.5	170	30	311-7152
M42x1.5	170	30	311-7153
M45x1.5	180	32	311-7154
M48x1.5	190	32	311-7155
M50x1.5	190	32	311-7156
M52x1.5	190	32	311-7157

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