

HOUGEN® "12,000-SERIES" ANNULAR CUTTERS

Cutter Dia. (Inches)	Decimal Equiv.	Part No.				
		1" D.O.C.	2" D.O.C.	3" D.O.C.	4" D.O.C.	6" D.O.C.
Use with Pilot		10531	10532			
7/16	.4375	12114	12214	----	----	----
29/64	.4531	----	12010	----	----	----
31/64	.4844	----	12011	----	----	----
1/2	.5000	12116	12216	----	----	----
33/64	.5156	----	12012	----	----	----
17/32	.5313	12117	12217	----	----	----
9/16	.5625	12118	12218	----	----	----
19/32	.5938	----	12219	----	----	----
Use with Pilot		10527	10528	24131	4-10528	6-10528
5/8	.6250	12120	12220	----	----	----
21/32	.6563	12121	12221	----	----	----
11/16	.6875	12122	12222	----	----	----
23/32	.7188	----	12223	----	----	----
3/4	.7500	12124	12224	3-12224	----	----
49/64	.7656	----	12020	----	----	----
25/32	.7812	12125	12225	----	----	----
13/16	.8125	12126	12226	3-12226	4-12226	6-12226
7/8	.8750	12128	12228	3-12228	----	----
59/64	.9219	----	12025	----	----	----
15/16	.9375	12130	12230	3-12230	4-12230	6-12230
1	1.0000	12132	12232	3-12232	4-12232	6-12232
1-1/16	1.0625	12134	12234	3-12234	4-12234	6-12234
1-1/8	1.1250	12136	12236	3-12236	4-12236	6-12236
1-3/16	1.1875	12138	12238	3-12238	4-12238	6-12238
1-1/4	1.2500	12140	12240	3-12240	4-12240	6-12240
1-5/16	1.3125	12142	12242	3-12242	----	----
1-3/8	1.3750	12144	12244	3-12244	----	----
1-7/16	1.4375	12146	12246	3-12246	----	----
1-1/2	1.5000	12148	12248	3-12248	----	----
1-9/16	1.5625	12150	12250	3-12250	----	----
1-5/8	1.6250	12152	12252	3-12252	----	----
1-11/16	1.6875	12154	12254	3-12254	----	----
1-3/4	1.7500	12156	12256	3-12256	----	----
1-13/16	1.8125	12158	12258	3-12258	----	----
1-7/8	1.8750	12160	12260	3-12260	----	----
1-15/16	1.9375	12162	12262	3-12262	----	----
2	2.0000	12164	12264	3-12264	----	----
2-1/16	2.0625	12166*	12266	3-12266	----	----
2-1/8	2.1250	12168*	12268	3-12268	----	----
2-3/16	2.1875	12170*	12270	3-12270	----	----
2-1/4	2.2500	12172*	12272	3-12272	----	----
2-5/16	2.3125	12174*	12274	3-12274	----	----
2-3/8	2.3750	12176*	12276	3-12276	----	----
2-7/16	2.4375	12178*	12278*	3-12278	4-12278	----
2-1/2	2.5000	12180*	12280*	3-12280	4-12280	----
2-9/16	2.5625	12182*	12282*	3-12282	4-12282	----
2-5/8	2.6250	12184*	12284*	3-12284	4-12284	----
2-11/16	2.6875	12186*	12286*	3-12286	4-12286	----
2-3/4	2.7500	12188*	12288*	3-12288	4-12288	----
2-13/16	2.8125	12190*	12290*	3-12290	4-12290	----
2-7/8	2.8750	12192*	12292*	3-12292	4-12292	----
2-15/16	2.9375	12194*	12294*	3-12294	4-12294	----
3	3.0000	12196*	12296*	3-12296	4-12296	----
3-1/16	3.0625	----	12298*	3-12298	4-12298	----



- Cuts holes faster
- Longer tool life
- Lower cost per hole
- Precision tooth geometry
- For the widest range of materials
- Resharpenable

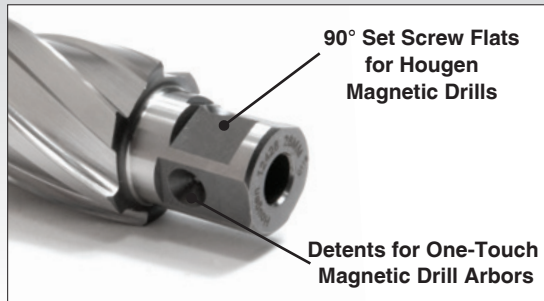
For use with Hougén® Portable Magnetic Drills and many competitive models on materials up to 6" thick. They are made from hardened M2 high speed steel and are precision ground for excellent performance throughout the cut and long tool life. They require less horsepower and thrust to cut, and last much longer than traditional holemaking methods. "12,000-Series" cutters have a 3/4" dia. double-flatted shank and for extended tool life and lower cost per hole. "12,000-Series" Cutters are resharpenable. Modified end tooth geometry is also available for drilling in stacked plate applications.



All Cutters are available with **stack geometry**. To order: add 'S' to end of part no. ie...12226S. (Some sizes may take 7-10 days. Call for availability).

* Call for pricing - Minimum order qty 6

HOUGEN® "12,000-SERIES" ANNULAR CUTTERS - METRIC



Metric "12,000-Series" cutters now feature the Fusion2™ shank. This shank design can be used in Hougén magnetic drills with the two flat arbors or in competitive models featuring the One-Touch arbor system.



Cutter Dia. (Metric)	Decimal Equivalent	Part No.		
		25mm D.O.C.	50mm D.O.C.	76mm D.O.C.
Use with Pilot		10531	10532	
12mm	.4724	12312	12412	----
13mm	.5118	12313	12413	----
14mm	.5512	12314	12414	----
15mm	.5906	12315	12415	----
Use with Pilot		10527	10528	24131
16mm	.6299	12316	12416	----
17mm	.6693	12317	12417	----
18mm	.7087	12318	12418	----
19mm	.7480	12319	12419	12519
20mm	.7874	12320	12420	12520
21mm	.8268	12321	12421	12521
22mm	.8661	12322	12422	12522
23mm	.9055	12323	12423	12523
24mm	.9449	12324	12424	12524
25mm	.9843	12325	12425	12525
26mm	1.0236	12326	12426	12526
27mm	1.0630	12327	12427	12527
28mm	1.1024	12328	12428	12528
29mm	1.1417	12329	12429	12529
30mm	1.1811	12330	12430	12530
31mm	1.2205	12331	12431	12531
32mm	1.2598	12332	12432	12532
33mm	1.2992	12333	12433	12533
34mm	1.3386	12334	12434	12534
35mm	1.3779	12335	12435	12535

Cutter Dia. (Metric)	Decimal Equivalent	Part No.		
		25mm D.O.C.	50mm D.O.C.	76mm D.O.C.
Use with Pilot		10527	10528	24131
36mm	1.4173	12336	12436	12536
37mm	1.4567	12337	12437	12537
38mm	1.4961	12338	12438	12538
39mm	1.5354	12339	12439	12539
40mm	1.5743	12340	12440	12540
41mm	1.6142	12341	12441	12541
42mm	1.6535	12342	12442	12542
43mm	1.6929	12343	12443	12543
44mm	1.7323	12344	12444	12544
45mm	1.7717	12345	12445	12545
46mm	1.8110	12346	12446	12546
47mm	1.8504	12347	12447	12547
48mm	1.8898	12348	12448	12548
49mm	1.9291	12349	12449	12549
50mm	1.9685	12350	12450	12550
51mm	2.0079	12351	12451	12551
52mm	2.0472	12352	12452	12552
53mm	2.0866	12353	12453	----
54mm	2.1260	12354	12454	----
55mm	2.1654	12355	12455	----
56mm	2.2047	12356	12456	----
57mm	2.2441	12357	12457	----
58mm	2.2835	12358	12458	----
59mm	2.3228	12359	12459	----
60mm	2.3622	12360	12460	----

"12,000-SERIES" TAP DRILL SIZES

A clean, accurate hole helps to make tapping an easier task. You can achieve that task easily with these tap drill size "12,000-Series" Cutters. Kit #12007 contains five popular sizes of tap drills.

Cutter Dia. (Inches)	Decimal Equivalent	Thread	Part No.	
			1" D.O.C.	2" D.O.C.
Use with Pilot			10531	10532
7/16	.4375	1/2-13	12114	12214
29/64	.4531	1/2-20	----	12010
31/64	.4844	9/16-12	----	12011
33/64	.5156	9/16-18	----	12012
17/32	.5313	5/8-11	12117	12217
37/64	.5781	5/8-18	----	12014
19/32	.5938	11/16-11	----	12219
Use with Pilot			10527	10528
21/32	.6563	3/4-10	12121	12221
11/16	.6875	3/4-16	12122	12222
23/32	.7188	1/2-14 NPT	----	12223
49/64	.7656	7/8-9	----	12020
25/32	.7812	7/8-9	12125	12225
13/16	.8125	7/8-14	12126	12226
7/8	.8750	1-8	12128	12228
59/64	.9219	1-12	----	12025

PILOTS - "12,000-SERIES"

The pilot serves three functions when used with "12,000-Series" cutters in a portable magnetic drill; 1)

Locate the holes center point, 2) Initiate coolant flow to the center of the tool, 3) Eject the slug at the end of the cut. Always use a sharp pilot for best results.



Part No.	Description
10527	1" D.O.C. Pilot (5/8" - 2-3/8" & 16mm - 60mm)
10528	2" D.O.C. Pilot (5/8" - 2-3/8" & 16mm - 60mm)
10531	1" D.O.C. Pilot (7/16 - 9/16" & 12 - 15mm)
10532	2" D.O.C. Pilot (7/16 - 9/16" & 12 - 15mm)
24131	3" D.O.C. Pilot (3/4" - 3-1/16" & 19mm - 52mm)
4-10528	4" Pilot for Extended Reach "12,000-Series"
6-10528	6" Pilot for Extended Reach "12,000-Series"
Pilots for Old Style "12,000-Series" Cutters	
10533	1" D.O.C. Pilot (1/2" - 11/16" & 13mm - 18mm)
10534	2" D.O.C. Pilot (1/2" - 11/16" & 13mm - 18mm)