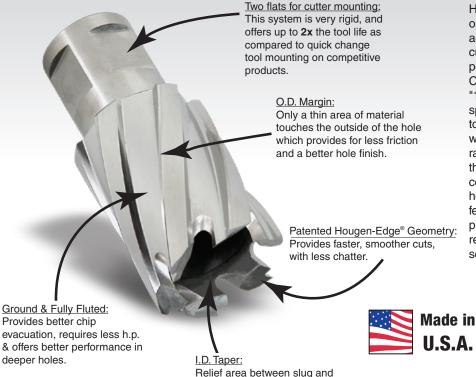
# **HOUGEN® CUTTER COMPARISON CHART**

Stainless Steel	Harder Steel	Mild Steel	Aluminum	Recommended Lubrication	Max. Application Hardness Rating	Available Grind Down (Within Limits)	Can be Resharpened	Cutter Material(s) Available	Mounting	Max. Depth of Cut	Diameter Range Min. / Max.	<b>Tool Series:</b>	Hougen
Good		<u> </u>	====	Slick-Stik™ or RotaGel™	275 BHN (28.5 HRC)	<u> </u>		M2 HSS	3/8" or 1/2" Triple Flat Shank	1/4" to 1/2" (6.4mm - 12.7mm)	1/4" to 1-1/2" (6mm - 25mm)	RotaCut™	
ood	Good	<u> </u>		Slick-Stik™ or RotaGel™	275 BHN (28.5 HRC)		====== Dispo	M2 HSS	3/8" Triple Flat Shank	1/4" (6.4mm)	3/8" to 9/16"	<b>Extended Reach</b>	
Recommend Speed Reducer		<u> </u>		Slick-Stik™ or RotaGel™	275 BHN (28.5 HRC)		====== Disposable ========	M2 HSS	3/8" Triple Flat Shank	1/8" (3.2mm)	11/16" to 3"	Holcutter™	
<u> </u>	<u> </u>	<u></u>	High RPM & Fast Fe	Slick-Stik™ or RotaGel™	450 BHN (47.2 HRC)			Carbide Tip	3/8" or 1/2" Triple Flat Shank	1/8" (3.2mm)	11/16" to 3"	Carbide Holcutter™	
Good	Better	<u></u>	High RPM & Fast Feed Rates Suggested	Slick-Stik™ or RotaGel™	350 BHN (37.7 HRC)	<u> </u>	<u></u>	M42 HSS	Bayonet Style	3/4" - (19mm) Stack Geometry	1/2" to 1-1/16" (12mm - 27mm)	RotaLoc™	
ood	Better	<u> </u>		Slick-Stik™ or RotaGel™	350 BHN (37.7 HRC)	<u> </u>	<u> </u>	M42 HSS	Bayonet Style	1" - (25mm) Stack Geometry	7/16" to 1-3/8" (12mm - 35mm)	<b>RotaLoc Plus</b> ™	
TiN Coat or Premium Recommended	Standard - Good TiN - Better	<u> </u>		RotaMagic™	275 BHN 325 BHN (TiN)	<u> </u>	<u> </u>	M2 HSS or M2 TiN Coat	3/4" Double Flat or Fusion2™ Shank	1" to 6" (25mm to 152mm)	7/16" to 3-1/16" (12mm - 77mm)	"12,000-Series"	
<u> </u>	<u> </u>	<u> </u>		RotaMagic™	450 BHN (47.2 HRC)			Carbide Tip	3/4" Fusion2™ Shank	1" to 6" (25mm to 152mm)	9/16" to 2" (14mm - 60mm)	<b>Copperhead™</b>	C

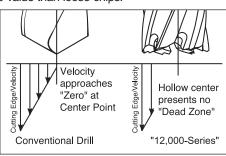
# HOUGEN® "12.000-SERIES" CUTTERS - SIMPLY THE BEST



cutter. Reduces horsepower and

improves slug ejection.

Hougen "12,000-Series" cutters were the original annular cutters invented over 35 years ago. With the most features of any annular cutter, "12,000-Series" cutters provide the best performance in the largest variety of materials. Compared to traditional tooling (twist drills, etc.) "12,000-Series" cutters can multiply your cutting speed by up to 3 times. And you get longer tool life, a more accurate hole, a better finish, with no burrs. Hougen cutters maximize feed rates because up to 10 cutting edges distribute the cutting load evenly. "12,000-Series" cutters convert a smaller area to chips, requiring less horsepower and thrust. The Hougen-Edge® feature is a patented tooth geometry that provides long tool life, less chatter, and extended resharpenability. The slug also offers a higher scrap value than loose chips.



### Why use Stack-Cut Geometry?



Hougen "12,000-Series" Annular Cutters with a Stack-Cut tooth geometry must be used whenever two or more plates are being drilled simultaneously. When drilling multiple pieces with traditional cutters, after the first piece is drilled, you need to stop and remove the slug before continuing on thru the second piece. Not a problem with stack cutters. Drill straight thru without stopping.

Most sizes of "12,000-Series" cutters are available from stock with stack cut geometry. All sizes are available by special request with stack-cut geometry.

Hougen's Technical Service Department should be contacted whenever special tooth geometry and applications will be necessary.

Hougen can design & manufacture custom cutters and tools for your specific application. Call or email us today...

(810) 635-7111 info@hougen.com





Copperhead™ Carbide tipped cutters are premium tools with unique Hougen features. Designed for harder, rough, rusted, or more abrasive materials, but offer excellent performance in mild and structural steel applications.

These cutters feature a full length flute to pull chips out when deep in the hole. A thinner cutter wall improves cutting speed, while special Hougen tooth geometry optimizes cutter life and hole finish. Plus they now are available with the Fusion2™ style shank that fits Hougen mag drills and competitive one-touch arbors.

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

Cutter	Dooimal			Part No.		
Dia. (Inches)	Decimal Equiv.	1" D.O.C.	2" D.O.C.	3" D.O.C.	4" D.O.C.	6" D.O.C.
` ,	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		4.40000	
15/16	.9375	12130	12230	3-12230	4-12230	6-12230
1 1/10	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 1-3/16	1.1250 1.1875	12136 12138	12236 12238	3-12236 3-12238	4-12236 4-12238	6-12236 6-12238
1-1/4	1.1675	12140	12230	3-12230	4-12230	6-12240
1-5/16	1.3125	12142	12240	3-12240		0-12240
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		12266	3-12266		
2-1/8	2.1250		12268	3-12268		
2-3/16	2.1875		12270	3-12270		
2-1/4	2.2500		12272	3-12272		
2-5/16	2.3125		12274	3-12274		
2-3/8 2-7/16	2.3750 2.4375		12276	3-12276	 4-12278	
2-1/10	2.5000			3-12278 3-12280	4-12270	
2-9/16	2.5625			3-12282	4-12282	
2-5/8	2.6250			3-12284	4-12284	
2-11/16	2.6875			3-12286	4-12286	
2-3/4	2.7500			3-12288	4-12288	
2-13/16	2.8125			3-12290	4-12290	
2-7/8	2.8750			3-12292	4-12292	
2-15/16	2.9375			3-12294	4-12294	
3	3.0000			3-12296	4-12296	
3-1/16	3.0625			3-12298	4-12298	
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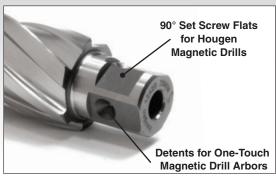


- Cuts holes faster
- Longer tool life
- Lower cost per hole
- Precision tooth geometry
- For the widest range of materials
- Resharpenable

For use with Hougen® 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.



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



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





0 H D' .	B		Part No.	
Cutter Dia. (Metric)	Decimal Equivalent	05 D 0 0		70 D 0 0
,	•		50mm D.O.C.	/omm D.U.G.
Use with		10531	10532	
12mm	.4724	12312	12412	
13mm	.5118	12313	12413	
14mm	.5512	12314	12414	
15mm	.5906	12315	12415	
Use wit	h 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.	Decimal		Part No.	
(Metric)	Equivalent	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.	Decimal	Thread	Part	No.
(Inches)	Equivalent	Inreau	1" D.O.C.	2" D.O.C.
Use with	n 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	n 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)

# "12,000-SERIES" M2 CUTTERS TIN COATED

"12,000-Series" cutters with a TiN Coating increases tool life, reduces friction, and operates at cooler temperatures. For materials up to 325 BHN (34.5 HRC) or gummy materials. Made in USA.

Cutter Dia.	Decimal	Part	No.
(Inches)	Equiv.	1" D.O.C.	2" D.O.C.
Use wi	th Pilot	10531	10532
7/16	.4375	12614	12714
1/2	.5000	12616	12716
9/16	.5625	12618	12718
Use wi	th Pilot	10527	10528
5/8	.6250	12620	12720
11/16	.6875	12622	12722
3/4	.7500	12624	12724
13/16	.8125	12626	12726
7/8	.8750	12628	12728
15/16	.9375	12630	12730
1	1.0000	12632	12732
1-1/16	1.0625	12634	12734
1-1/8	1.1250	12636	12736
1-3/16	1.1875	12638	12738

Cutter Dia.	Decimal	Part	No
(Inches)	Equiv.	1" D.O.C.	2" D.O.C.
Use wi	-	10527	10528
1-1/4	1.2500	12640	12740
1-5/16	1.3125	12642	12742
1-3/8	1.3750	12644	12744
1-7/16	1.4375	12646	12746
1-1/2	1.5000	12648	12748
1-9/16	1.5625	12650	12750
1-5/8	1.6250	12652	12752
1-11/16	1.6875	12654	12754
1-3/4	1.7500	12656	12756
1-13/16	1.8125	12658	12758
1-7/8	1.8750	12660	12760
1-15/16	1.9375	12662	12762
2	2.0000	12664	12764
2-1/16	2.0625		12766
2-1/8	2.1250		12768
2-3/16	2.1875		12770
2-1/4	2.2500		12772
2-5/16	2.3125		12774
2-3/10	2.3750		12774
2-3/0	2.0700		12//0



# "12,000-SERIES" CUTTER KITS



"12,000-Series" cutter kits are conveniently packaged with the most popular diameters in protective cases for easy transporting and safe storage. Choose from fractional or metric diameters, in 1" or 2" depth of cut. Each kit includes hex wrenches and 2 pilots.

Part No.	Mat'l / Coating	D.O.C.	Diameters Included
12001	M2 HSS	1"	9/16, 11/16, 13/16, 15/16, 1-1/16"
12002	M2 HSS	2"	9/16, 11/16, 13/16, 15/16, 1-1/16"
12003	M2 HSS	25mm	14mm, 16mm, 18mm, 20mm, 22mm
12004	M2 HSS	50mm	14mm, 16mm, 18mm, 20mm, 22mm
12005	M2 HSS	1"	5/8, 3/4, 7/8, 1, 1-1/8"
12006	M2 HSS	2"	5/8, 3/4, 7/8, 1, 1-1/8"
12007	M2 HSS	2"	7/16, 17/32, 21/32, 25/32, 7/8"
12601	M2 / TiN	1"	9/16, 11/16, 13/16, 15/16, 1-1/16"
12702	M2 / TiN	2"	9/16, 11/16, 13/16, 15/16, 1-1/16"

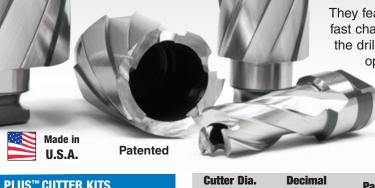
For questions on which cutter to use for your application, contact Hougen customer service at (810) 635-7111 or info@hougen.com

### **ROTALOC PLUS™ ANNULAR CUTTERS AND KITS**

RotaLoc Plus™ Annular Cutters are designed for the Hougen® HMD130 Low Profile Drill. They're made of M42 high speed steel, feature Stack Cut geometry for penetrating multiple plates in a single pass and are designed for a full 1" D.O.C.

They feature a 5/8" bayonet-style shank mounting for fast change out, with no tools required to install in the drill spindle, and can be as easily removed. For optimum cutter tool life and cutter efficiency use

Hougen® Slick-Stik™ Lubricant.



# ROTALOC PLUS™ CUTTER KITS (HMD130-ONLY)

Kit No.	Description
17802	Kit contains (3) cutters, 1" D.O.C 1/2, 5/8, 3/4" dia, plus (3) Pilots in a sturdy plastic case.
17803	Kit contains (3) cutters, 1" D.O.C 9/16, 11/16, 13/16" dia, plus (3) Pilots in a sturdy plastic case.
17805	Kit contains (3) cutters, 1" D.O.C 14mm, 16mm, 18mm dia, plus (3) Pilots in a sturdy plastic case.



Cutter not included

ROTALOC™ SPINDLE ADAPTER				
Part No.	Description			
17680	RotaLoc Adapter Assembly			
04778	Replacement Adapter			
04780	Replacement Pilot			

Cutter Dia. (Inches)	Decimal Equiv.	Part No.
S	ee Chart for Pile	ot
7/16	.4375	17814*
1/2	.5000	17816
17/32	.5313	17817
9/16	.5625	17818
5/8	.6250	17820
11/16	.6875	17822
3/4	.7500	17824
13/16	.8125	17826
7/8	.8750	17828
15/16	.9375	17830
1	1.0000	17832
1-1/16	1.0625	17834
1-1/8	1.1250	17836
1-3/16	1.1875	17838
1-1/4	1.2500	17840
1-5/16	1.3125	17842
1-3/8	1.3750	17844

<sup>\*</sup> Made from M2 HSS

The RotaLoc Plus cutters can also be used on the HMD150 magnetic drill.

With the RotaLoc<sup>™</sup> Spindle Adapter you use RotaLoc<sup>™</sup> or RotaLoc Plus<sup>™</sup> Annular Cutters in virtually all Hougen<sup>®</sup> Portable Magnetic Drills or any other drill that also accepts "12,000-Series" Cutters.

Cutter Dia. (Metric)	Decimal Equiv.	Part No.
S	ee Chart for Pilo	ot
12mm	.4724	17900
13mm	.5118	17902
14mm	.5512	17904
15mm	.5906	17906
16mm	.6299	17908
17mm	.6693	17910
17.5mm	.6890	17911
18mm	.7087	17912
19mm	.7480	17914
20mm	.7874	17916
21mm	.8268	17918
22mm	.8661	17920
23mm	.9055	17922
24mm	.9449	17924
24.5mm	.9645	17925
25mm	.9843	17926
26mm	1.0236	17928
26.5mm	1.0433	17929
27mm	1.0630	17930
28mm	1.1024	17932
29mm	1.1417	17934
30mm	1.1811	17936
31mm	1.2205	17938
32mm	1.2598	17940
33mm	1.2992	17942
34mm	1.3386	17944
35mm	1.3779	17946

### **ROTALOC PLUS™ PILOTS**

HUIALU	TEOD TILUID
Part No.	Description
17470	For use with HMD150
17810	For use with HMD130

### ROTALOC™ ANNULAR CUTTERS - M42 HSS - 3/4" D.O.C. - STACK CUT (FOR HMD115)

Cutter Dia. (Inches)	Decimal Equiv.	Part No.
	Use Pilot 17100	
1/2	.5000	17116
9/16	.5625	17118
5/8	.6250	17120
11/16	.6875	17122
3/4	.7500	17124
13/16	.8125	17126
7/8	.8750	17128
15/16	.9375	17130
1	1.0000	17132
1-1/16	1.0625	17134

### Part No. Description

Kit contains (10) cutters, 3/4"

17001 D.O.C. -1/2 to 1-1/16" dia, plus (2)

Pilots in a sturdy plastic case.

Cutter Dia. (Metric)	Decimal Equiv.	Part No.	
	Use Pilot 17100		
12mm	.4724	17300	
13mm	.5118	17302	
14mm	.5512	17304	
15mm	.5906	17306	
16mm	.6299	17308	
17mm	.6693	17310	
18mm	.7087	17312	
19mm	.7480	17314	
20mm	.7874	17316	
21mm	.8268	17318	
22mm	.8661	17320	
23mm	.9055	17322	
19mm 20mm 21mm 22mm	.7480 .7874 .8268 .8661	17314 17316 17318 17320	

Cutter Dia. (Metric)	Decimal Equiv.	Part No.
	Use Pilot 17100	
24mm	.9449	17324
24.5mm	.9645	17325
25mm	.9843	17326
26mm	1.0236	17328
26.5mm	1.0433	17329
27mm	1.0630	17330

ROTALOC™ PILOTS		
Part No.	Description	
17100	Standard Pilot for HMD115	
17101	Spring Ejection Pilot*	

<sup>\*</sup> For early model HMD115 w/o spring ejection and all HMD100 drills.

### **COPPERHEAD™ CARBIDE TIP CUTTERS**



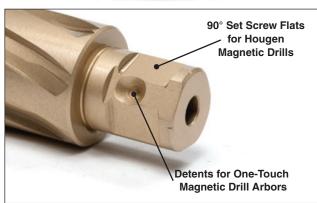
Copperhead™ Carbide Tip Cutters offer extended tool life on abrasive, tough-to-cut materials and in high-speed mag drills such as the HMD508. The unique Hougen design includes a special tooth geometry that helps maintain a better chip flow than other brands. Copperhead Cutters are available in fractional & metric sizes with the Fusion2™ shank. The shank allows for cutters to be used in Hougen drills and competitive models utilizing the one-touch arbor system. Using the set screw arbor system can result in up to 2x the tool life as tool-less systems.

Cutter Dia. (Metric)	Part No. Fusion2™ Shank	Cutter Dia. (Metric)	Part No. Fusion2™ Shank
2" (50mn	n) D.O.C.	2" (50mm	n) D.O.C.
Use with I	Pilot 10530	Use with F	Pilot 10530
12mm	18412	38mm	18438
13mm	18413	39mm	18439
14mm	18414	40mm	18440
15mm	18415	41mm	18441
16mm	18416	42mm	18442
17mm	18417	43mm	18443
18mm	18418	44mm	18444
19mm	18419	45mm	18445
20mm	18420	46mm	18446
21mm	18421	47mm	18447
22mm	18422	48mm	18448
23mm	18423	49mm	18449
24mm	18424	50mm	18450
25mm	18425	51mm	18451
26mm	18426	52mm	18452
27mm	18427	53mm	18453
28mm	18428	54mm	18454
29mm	18429	55mm	18455
30mm	18430	56mm	18456
31mm	18431	57mm	18457
32mm	18432	58mm	18458
33mm	18433	59mm	18459
34mm	18434	60mm	18460
35mm	18435		
36mm	18436		
37mm	18437		



Cutter Dia.	Part No Fusion2™ Shank				
(Inches)	1" D.O.C. (25mm)	2" D.O.C. (50mm)	3" D.O.C. (76mm)	4" D.O.C. (102mm)	6" D.O.C. (152mm)
Use with Pilot	10529	10530	10535	10540	10547
9/16	18118	18218			
5/8		18220			
11/16	18122	18222	3-18222	4-18222	
3/4		18224	3-18224	4-18224	
13/16	18126	18226	3-18226	4-18226	6-18226
7/8		18228	3-18228	4-18228	6-18228
15/16	18130	18230	3-18230	4-18230	6-18230
1		18232	3-18232	4-18232	6-18232
1-1/16	18134	18234	3-18234	4-18234	6-18234
1-1/8		18236	3-18236	4-18236	6-18236
1-3/16		18238	3-18238	4-18238	6-18238
1-1/4		18240	3-18240	4-18240	6-18240
1-5/16		18242	3-18242	4-18242	6-18242
1-3/8		18244	3-18244	4-18244	6-18244
1-1/2		18248	3-18248	4-18248	6-18248
1-5/8		18252	3-18252	4-18252	6-18252
1-3/4		18256	3-18256	4-18256	6-18256
1-7/8		18260	3-18260	4-18260	6-18260
2		18264	3-18264	4-18264	6-18264





# **COPPERHEAD™ CUTTER KITS**



Copperhead Cutters are available in fractional & metric kits for convenient storage and portability. Includes five 2" DOC cutters & two pilots.

Kit No.	Description 2" (50mm) DOC
18002	Fractional Kit contains (5) cutters, 9/16, 11/16, 13/16, 15/16, 1-1/16", (2) Pilots & Hex Wrenches
18004	Metric Kit contains (5) cutters, 14, 16, 18, 20, & 22mm, (2) Pilots & Hex Wrenches