

HOUGEN® PORTABLE MAGNETIC DRILLS

HMD904

The drill of choice for fabrication. Lightweight, powerful, & versatile.

- Completely redesigned with additional features
- Pilot light for low light conditions and greater hole accuracy
- New - Two stage magnet. Engages full power when motor is turned on
- New Housing and slot drive arbor system
- Positive slug ejection
- Many accessories are available for a portable machine shop including: drill chucks, tapping, countersink, and more...
- Lift detector safety system
- Gravity fed coolant system
- Carrying case included
- One year warranty

Swivel Base adds even greater versatility:

- Precisely line up your pilot with the holes center location
- One stroke lock and unlock handle
- Great for horizontal, overhead, tight areas, and getting out over another piece of steel



Made in U.S.A.

Pat. Pending

MODELS & PART NO.

Part No.	Description	Voltage	Coolant Bottle	Swivel	Cutter Kit	Special Plug
0904101	HMD904	115V				
0904102	HMD904	115V	X			
0904103	HMD904	115V		X		
0904104	HMD904	115V	X	X		
0904105	Fabricator's Kit	115V	X		12002	
0904108	Fabricator's Kit	115V	X		12004	
0904109	Fabricator's Kit	115V	X	X	12002	
0904110	Fabricator's Kit	115V	X	X	12004	
0904201	HMD904	230V				
0904202	HMD904	230V	X			
0904203	HMD904	230V		X		
0904204	HMD904	230V	X	X		
0904205	Fabricator's Kit	230V	X		12002	
0904208	Fabricator's Kit	230V	X		12004	
0904209	Fabricator's Kit	230V	X	X	12002	
0904210	Fabricator's Kit	230V	X	X	12004	
0904301	HMD904	230V				Type I
0904302	HMD904	230V	X			Type I
0904303	HMD904	230V		X		Type I
0904304	HMD904	230V	X	X		Type I
0904308	Fabricator's Kit	230V	X		12004	Type I
0904310	Fabricator's Kit	230V	X	X	12004	Type I

- All drills include: carrying case, pint of coolant, safety chain, hex wrenches but do not include an on/off switch for the pilot light.

- Fabricator's Kit Includes: drill, 1/2" drill chuck, adapter, & "12,000-Series" Cutter Kit.

ADDITIONAL 230V MODELS ARE AVAILABLE, VISIT WWW.HOUGEN.COM FOR THE FULL LIST OF PART NUMBERS

HMD904 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 9A, 1035W		
	230V, 50/60 Hz - 4.5A, 1035W		
Motor	8A, 920W (115V), 4A, 920W (230V) 450 RPM		
Diameter	7/16" - 1-1/2" (12mm - 38mm)		
Depth	2" (50mm)		
Cutter/Mount	"12,000-Series", Copperhead™ and Fusion™ cutters, 3/4" (19mm) shank		
Twist Drill Capacity	1/2" w/ drill chuck		
Tapping Capacity	1/2" w/ tapping unit		
Dimensions	19-5/8" H x 7-3/4" W x 11-5/8" L (499mm H x 197mm W x 295mm L)		
Swivel Area	1-1/8" W x 1-3/8" L (28.5mm W x 34.9mm L)		
Magnet	Base	3-1/8" W x 6-9/16" L (79mm W x 167mm L)	
	1" Plate (25mm)	Dead Lift 1750 lb. (794 kg)	Drillpoint Breakaway 995 lb. (433 kg)
	3/8" Plate (9.5mm)	1310 lb. (594 kg)	710 lb. (322 kg)
Swivel Magnet	1" Plate (25mm)	Dead Lift 1340 lb. (608 kg)	Drillpoint Breakaway Forward - 695 lb. (315 kg) Back - 835 lb. (379 kg)
	3/8" Plate (9.5mm)	1015 lb. (460 kg)	Forward - 503 lb. (228 kg) Back - 605 lb. (274 kg)
Weight	28.9 lb. (13.1 kg) • Shipping 43 lb. (19.5 kg)		
Weight (Swivel)	31.9 lb. (14.5 kg) • Shipping 45 lb. (20.4 kg)		

HOUGEN® PORTABLE MAGNETIC DRILLS



HMD905

Larger Motor with two speeds adds increased strength and versatility

- Powerful high torque Hougén motor and gears
- Two speed gear box - 250 & 450 RPM
- Pilot light for low light conditions and greater hole accuracy
- Two stage magnet. Engages full power when motor is turned on
- Available with or without the swivel base
- Positive slug ejection
- Many accessories are available to turn your drill into a portable machine shop including: drill chucks, tapping, countersink, and more...
- Lift detector safety system
- Integrated gravity fed coolant bottle
- Carrying case included
- One year warranty

Swivel Base adds even greater versatility:

- Precisely line up your pilot with the holes center location
- One stroke lock and unlock handle
- Great for horizontal, overhead, tight areas, and getting out over another piece of steel

MODELS & PART NO.

Part No.	Description	Voltage	Coolant Bottle	Swivel	Cutter Kit	Special Plug
0905102	HMD905	115V	X			
0905104	HMD905	115V	X	X		
0905105	Fabricator's Kit	115V	X		12002	
0905108	Fabricator's Kit	115V	X		12004	
0905109	Fabricator's Kit	115V	X	X	12002	
0905110	Fabricator's Kit	115V	X	X	12004	
0905202	HMD905	230V	X			
0905204	HMD905	230V	X	X		
0905205	Fabricator's Kit	230V	X		12002	
0905208	Fabricator's Kit	230V	X		12004	
0905209	Fabricator's Kit	230V	X	X	12002	
0905210	Fabricator's Kit	230V	X	X	12004	
0905302	HMD905	230V	X			Type I
0905304	HMD905	230V	X	X		Type I
0905308	Fabricator's Kit	230V	X		12004	Type I
0905310	Fabricator's Kit	230V	X	X	12004	Type I
0905402	HMD905	230V	X			No Plug
0905404	HMD905	230V	X	X		No Plug
0905405	Fabricator's Kit	230V	X		12002	No Plug
0905408	Fabricator's Kit	230V	X		12004	No Plug
0905409	Fabricator's Kit	230V	X	X	12002	No Plug
0905410	Fabricator's Kit	230V	X	X	12004	No Plug

- All drills include: carrying case, pint of coolant, safety chain, hex wrenches, & on/off switch for the pilot light.

- Fabricator's Kit Includes: drill, 1/2" drill chuck, adapter, & "12,000-Series" Cutter Kit.



Pat. Pending

HMD905 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 10A, 1150W 230V, 50/60 Hz - 5A, 1150W		
Motor	9A, 1035W (115V), 4.5A, 1035W (230V) 250/450 RPM		
Diameter	7/16" - 1-5/8" (12mm - 41mm)		
Depth	2" (50mm)		
Cutter/Mount	"12,000-Series", Copperhead™ and Fusion™ cutters, 3/4" (19mm) shank		
Twist Drill Capacity	1/2" w/ drill chuck		
Tapping Capacity	1/2" w/ tapping unit		
Dimensions	22-13/16" H x 7-11/16" W x 11-3/4" L (579mm H x 195mm W x 299mm L)		
Swivel Area	1-1/8" W x 1-3/8" L (28.5mm W x 34.9mm L)		
	Base	3-1/8" W x 6-9/16" L (79mm W x 167mm L)	
Magnet	1" Plate (25mm)	Dead Lift 1750 lb. (794 kg)	Drillpoint Breakaway 995 lb. (433 kg)
	3/8" Plate (9.5mm)	1310 lb. (594 kg)	710 lb. (322 kg)
Swivel Magnet	1" Plate (25mm)	Dead Lift 1340 lb. (608 kg)	Drillpoint Breakaway Forward - 695 lb. (315 kg) Back - 835 lb. (379 kg)
	3/8" Plate (9.5mm)	1015 lb. (460 kg)	Forward - 503 lb. (228 kg) Back - 605 lb. (274 kg)
Weight	35 lb. (15.9 kg) • Shipping 52 lb (23.6 kg)		
Weight (Swivel)	38 lb. (17.2 kg) • Shipping 55 lb (24.9 kg)		

EXTENDED REACH CUTTERS

Choose this select series of cutters to give you extra reach in deep hole drilling applications. Each cutter features the same cutting geometry and action as the standard depth "12,000-Series" cutters, but in the extended 4" and 6" depth of cut. Also available with stack-cut geometry. Made in USA.

Cutter Dia. (Inches)	Part No.	
	4" D.O.C. (102mm)	6" D.O.C. (152mm)
Use with Pilot	4-10528	6-10528
13/16	4-12226*	6-12226*
15/16	4-12230*	6-12230*
1-1/16	4-12234*	6-12234*
1-3/16	4-12238*	6-12238*

"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. (Inches)	Decimal Equiv.	Part No.	
		1" D.O.C.	2" D.O.C.
Use with Pilot		10531	10532
7/16	.4375	12614	12714
1/2	.5000	12616	12716
9/16	.5625	12618	12718
Use with 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. (Inches)	Decimal Equiv.	Part No.	
		1" D.O.C.	2" D.O.C.
Use with Pilot		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
2-3/8	2.3750	----	12776

"12,000-SERIES" M42 PREMIUM CUTTERS

"12,000-Series" Premium Steel Cutters with TiN Coating extends tool life, reduces friction, and operates at cooler temperatures. They're made from M42 high speed steel for cutting materials up to 350 BHN (37.7 HRC) or gummy materials. These tools are specifically designed to stay cool throughout the cut. For materials up to 2" (50mm) thick. Made in USA.

Cutter Dia. (Inches)	Decimal Equiv.	Part No.
7/8	.8750	01354
15/16	.9375	01355
1	1.0000	01356
1-1/16	1.0625	01357
1-1/8	1.1250	01358
1-3/16	1.1875	01359
1-1/4	1.2500	01360
1-5/16	1.3125	01361
1-3/8	1.3750	01362
1-7/16	1.4375	01363
1-1/2	1.5000	01364



 Made in U.S.A.

"12,000-SERIES" CUTTER KITS



A group of eleven "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"
82003	M2 HSS	25mm	Fusion - 14mm, 16mm, 18mm, 20mm, 22mm
82004	M2 HSS	50mm	Fusion - 14mm, 16mm, 18mm, 20mm, 22mm