

# DIAMOND DRILL & CARVING BITS

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GENERAL STORE"



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## DIAMOND DRILL BITS

**SOLID DRILL BITS** - are made from sharp manmade diamonds bonded (nickel plated) to a solid tempered steel core.

### SOLID DRILL BITS (Plated Diamond)

BIT DIAMETER	SINGLE BITS		6 PACK OF BITS	
	MLS PART No.	Price	MLS PART No.	Price
0.75 mm	555011	\$2.00	555016	\$10.80
1.00 mm	555021	\$2.00	555026	\$10.80
1.25 mm	555031	\$2.00	555036	\$10.80
1.50 mm	555041	\$2.00	555046	\$10.80
1.75 mm	555051	\$2.00	555056	\$10.80
2.00 mm	555061	\$2.00	555066	\$10.80
2.25 mm	555071	\$4.50	555076	\$23.00
2.50 mm	555081	\$2.00	555086	\$10.80
3.00 mm	555091	\$5.50	555096	\$28.00
3.50 mm	555101	\$6.00	555106	\$30.00
4.00 mm	555111	\$6.50	555116	\$35.00

MLS PART NUMBER	PARTS DESCRIPTION	PRICE
555120	ASSORTED SIX PACK of SOLID DIAMOND DRILL BITS - 1 each of ¼, 1, 1 ¼, 1 ½, 2 and 2 ½ mm bits	\$10.80
555130	ASSORTED ELEVEN PACK of SOLID DIAMOND DRILL BITS - 1 each of ¼, 1, 1 ¼, 1 ½, 1 ¾, 2, 2 ¼ 2 ½, 3, 3 ½ and 4 mm bits	\$32.85

**SINTERED CORE DRILLS** - just like sintered rim saw blades have exposed diamond in a metal matrix around the rim. This means that they last much longer than their electroplated counter parts. These core drills are recommended for long life industrial use on marble and granite.

### CORE DRILL BITS (Sintered)

OUTER DIAMETER	INNER DIAMETER	SINGLE BITS	
		MLS PART No.	Price
0.50 Inch	0.37 Inch	560010	\$30.00
0.75 Inch	0.62 Inch	560020	\$36.00
1.00 Inch	0.86 Inch	560030	\$54.00
1.25 Inch	1.10 Inch	560040	\$60.00
1.50 Inch	1.35 Inch	560050	\$84.00
2.00 Inch	1.80 Inch	560060	\$102.00

### ABOUT DRILLING HOLES IN ROCKS

One of the most difficult lapidary skills I know of is drilling holes in rocks. The best method uses something called an "ULTRA-SONIC DRILL". These machines work great, however they cost about \$2,000.00!!! The next best bet is using a diamond plated or sintered drill bit.

I have done extensive testing. For holes under 3 mm., the **MICRO CORE DRILL BIT** work best followed by the **SOLID DRILL BITS**.

My test coupons were ¼" thick Brazilian Agates using a 1 mm drill bit at 1,000 RPM and using **MLS "DIAMOND LUBE"**. The hollow bits gave me about 25 holes while the solid bits gave me 7 holes.

At 2,500 RPM I got half as many holes, at 5,000 RPM I got 5 holes on the hollow core and **ZERO** holes on the solid bit.

### MICRO CORE DRILL BITS (Plated Diamonds)

OUTER DIAMETER	SINGLE BITS		6 PACK OF BITS	
	MLS PART No.	Price	MLS PART No.	Price
1.00 mm	551011	\$4.00	551016	\$21.60
1.25 mm	551021	\$4.00	551026	\$21.60
1.50 mm	551031	\$4.00	551036	\$21.60
1.75 mm	551041	\$4.00	551046	\$21.60
2.00 mm	551051	\$4.00	551056	\$21.60
2.50 mm	551061	\$4.00	551066	\$21.60
3.00 mm	551071	\$4.00	551076	\$21.60
3.50 mm	551081	\$4.00	551086	\$21.60

MLS PART NUMBER	PARTS DESCRIPTION	PRICE
555110	ASSORTED SIX PACK of MICRO HOLLOW CORE DIAMOND DRILL BITS - 1 each of 1, 1 ½, 2, 2 ½, 3 and 3 1/2 mm bits	\$21.60

These metal bonded hi-strength **CORE DRILLS** are designed for fast cutting and long life. The rigid steel shanks are plated and rust free. 60 mesh diamonds used. Drill bits are measured by outside diameter

### CORE DRILL BITS (Plated Diamond)

CORE DIAMETER	SHANK DIAMETER	SINGLE BITS	
		MLS PART No.	Price
1/4 Inch	5/32 Inch	550010	\$30.00
5/16 Inch	5/32 Inch	550020	\$31.00
3/8 Inch	1/4 Inch	550030	\$33.00
7/16 Inch	1/4 Inch	550040	\$35.00
1/2 Inch	1/4 Inch	550050	\$38.00
9/16 Inch	1/4 Inch	550060	\$40.00
5/8 Inch	3/8 Inch	550070	\$42.00
11/16 Inch	3/8 Inch	550080*	\$46.00
3/4 Inch	3/8 Inch	550090	\$48.00
13/16 Inch	3/8 Inch	550100*	\$52.00
7/8 Inch	3/8 Inch	550110*	\$55.00
1 Inch	3/8 Inch	550120	\$60.00
1 1/16 Inch	3/8 Inch	550130*	\$65.00