



Brilliant® Vacuum Brazed Diamond Hole Saws

Diamond is used for cutting or grinding hard and abrasive materials. The diamond particles are bonded to a steel blank inside a vacuum oven at high temperature. This method allows controlled grit density which helps prevent clogging of the tool. Vacuum brazed tools are exceptionally aggressive as the tight bond allows highly exposed diamond grit.

Bordo's range of Brilliant® Vacuum Brazed Diamond Hole Saws are ideal for cutting:

- Ceramics
- Natural stone
- Industrial ceramics
- Reinforced plastics
- Tiles
- Composite materials
- Fibreglass
- Rubber

All Brilliant® Diamond Hole Saw have a threaded M14 x 2.0 back plate to suit most common 115mm to 230mm (4-1/2" to 9") angle grinders. A Brilliant® Mandrel enables the hole saws to be used in standard 1/2" drill chucks.

Brilliant Merchandiser, 9 Piece – 7084-D2

Qty	Diameter mm	Diameter inch equiv.	Part Number
1	20	–	7084-20
1	25	1	7084-25
1	30	1-3/16	7084-30
1	35	1-3/8	7084-35
1	40	1-9/16	7084-40
1	50	–	7084-50
3	Mandrel	–	7084-1420

Brilliant Merchandiser, 11 Piece – 7084-D1

Qty	Diameter mm	Diameter inch equiv.	Part Number
1	10	–	7084-10
1	15	–	7084-15
1	20	–	7084-20
1	25	1	7084-25
1	30	1-3/16	7084-30
1	35	1-3/8	7084-35
1	40	1-9/16	7084-40
1	45	1-3/4	7084-45
1	50	–	7084-50
1	65	2-9/16	7084-65
1	75	–	7084-75
3	Mandrel	–	7084-1420



Technical Information - Speeds

The cutting speed should be between 20-30 m/sec dry and 20-50m/sec wet. It is vital to ensure that the tools do not vibrate. However, the critical point at which vibrations may occur depends on the strength of the shank, the tool holder and on the projecting length of the tool. This length should, therefore, be as short as possible. If in doubt it is advisable to start slowly and gradually increase the speed.

Size mm	DRY 20-30 m/sec RPM	WET 20-50 m/sec RPM
10	38,000–57,000	38,000–95,000
15	25,000–38,000	25,000–63,000
20	19,000–28,000	19,000–47,000
25	15,000–22,000	15,000–38,000
30	12,750–19,000	12,750–31,000
35	10,500–16,250	10,900–27,000
40	9,500–14,250	9,500–23,500
45	8,250–12,500	8,250–21,000
50	7,500–11,250	7,500–19,000
65	5,750–8,750	5,750–14,500
75	5,000–7,500	5,000–12,500
115	3,250–4,750	3,250–8,250



Brilliant Diamond Hole Saw Range

Diameter mm	Diameter inch equiv.	Part Number
10.00	–	7084-10
15.00	–	7084-15
20.00	–	7084-20
25.00	1	7084-25
30.00	1-3/16	7084-30
35.00	1-3/8	7084-35
40.00	1-9/16	7084-40
45.00	1-3/4	7084-45
50.00	–	7084-50
65.00	2-9/16	7084-65
75.00	–	7084-75
115.00	–	7084-115

M14 x 2.0 Threaded Mandrel 7084-1420



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