

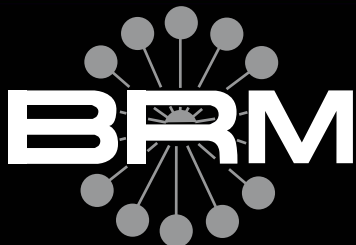
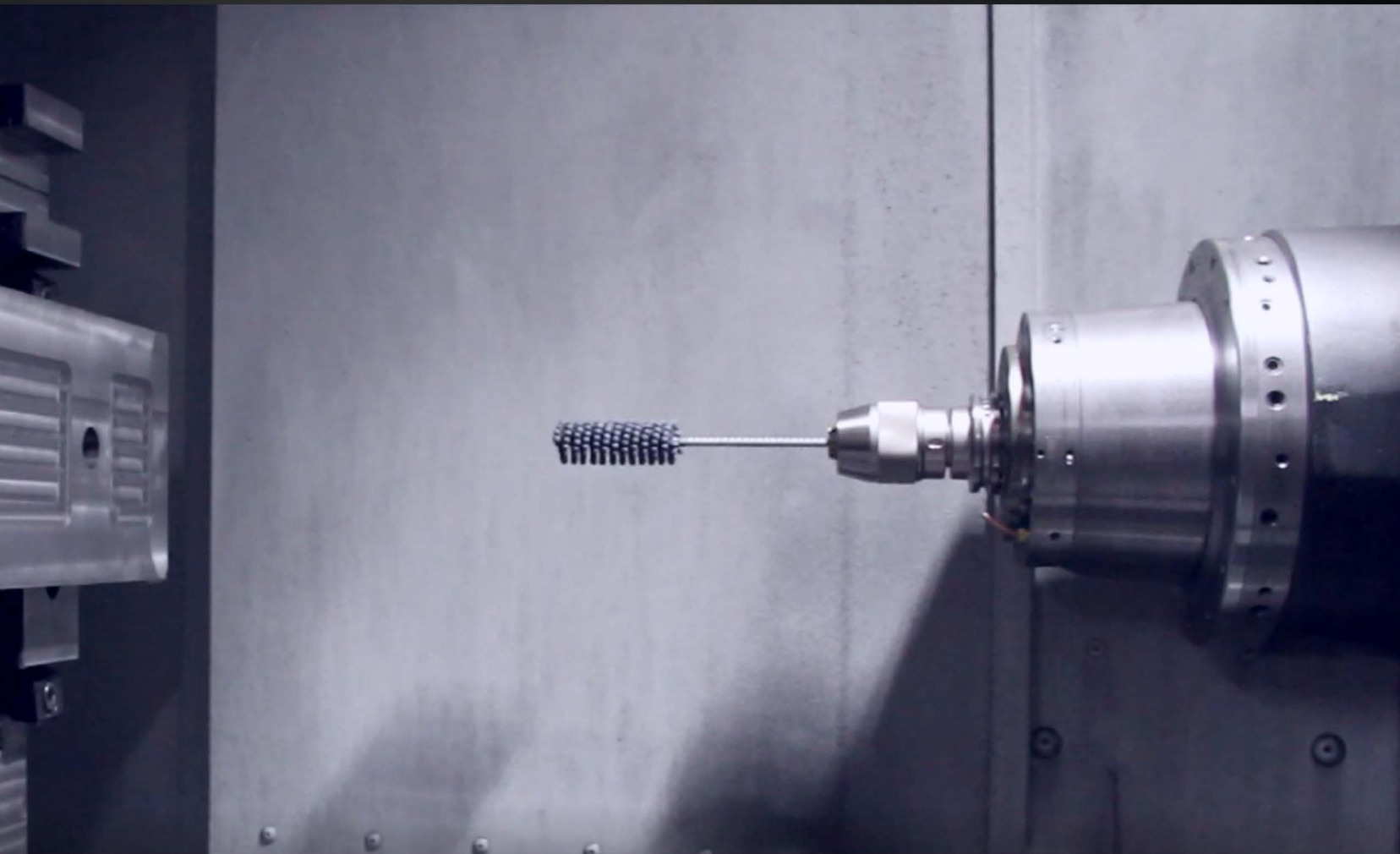
INNOVATORS IN BRUSH TECHNOLOGY

DIAMOND FLEX-HONE®



Finish Carbide, Ceramic and Hardened Tool Steel

NOW FINISHING HARDER MATERIALS



**BRUSH RESEARCH
MANUFACTURING**

Brush Research Manufacturing presents the newest innovation in the continuing evolution of our Flex-Hone® technology: Diamond Flex-Hones. These new tools are designed for deburring, edge blending and surface finishing in hard materials like carbide, ceramic and aerospace steel alloys. Our diamond tools are made with premium nickel coated diamond abrasive which aids in heat dissipation and improves bond retention. Sizes from 4mm to 20mm are standard in three different mesh sizes. Additional diameters and mesh selections are available on special order.

www.brushresearch.com

CARBIDE RINGS



BEFORE FLEX-HONE

AFTER FLEX-HONE

DIAMOND FLEX-HONES

We have engineered our Diamond Flex-Hones using resin bond diamond crystals that have high friability. A crystal with high friability creates self sharpening edges. The result is a tool that is free cutting with a rapid cut-rate that produces an optimal finish. Brush Research has been in the business of solving difficult finishing and deburring problems with brushing technology since 1958. You can count on Brush Research to develop innovative solutions.

A manufacturer of carbide wear rings was having difficulty achieving their required surface finish. In this instance, the Diamond Flex-Hone was used in progressively finer grits to create a near mirror finish lowering Ra from 0.7 to 0.05 µm.

QUALITY TOOLS - MADE IN USA

BORE DIAMETER		PART NUMBER		
MILLIMETERS (MM)	INCHES	170/200 MESH COATED	800 MESH COATED	2500 MESH COATED
4	0.157"	BC4M170200CD	BC4M800CD	BC4M2500CD
4.5	0.177"	BC45M170200CD	BC45M800CD	BC45M2500CD
4.76	0.187"	BC316170200CD	BC316800CD	BC3162500CD
5	0.197"	BC5M170200CD	BC5M800CD	BC5M2500CD
5.5	0.217"	BC55M170200CD	BC55M800CD	BC55M2500CD
6	0.236"	BC6M170200CD	BC6M800CD	BC6M2500CD
6.4	0.250"	BC64M170200CD	BC64M800CD	BC64M2500CD
7	0.276"	BC7M170200CD	BC7M800CD	BC7M2500CD
8	0.315"	BC8M170200CD	BC8M800CD	BC8M2500CD
9	0.354"	BC9M170200CD	BC9M800CD	BC9M2500CD
9.5	0.375"	BC95M170200CD	BC95M800CD	BC95M2500CD
10	0.394"	BC10M170200CD	BC10M800CD	BC10M2500CD
11	0.433"	BC11M170200CD	BC11M800CD	BC11M2500CD
12	0.472"	BC12M170200CD	BC12M800CD	BC12M2500CD
12.7	0.500"	BC12170200CD	BC12800CD	BC122500CD
14	0.552"	BC14M170200CD	BC14M800CD	BC14M2500CD
16	0.625"	BC58170200CD	BC58800CD	BC582500CD
18	0.709"	BC18M170200CD	BC18M800CD	BC18M2500CD
19	0.750"	BC34170200CD	BC34800CD	BC342500CD
20	0.787"	BC20M170200CD	BC20M800CD	BC20M2500CD
* 22	0.875"	BC78170200CD	BC78800CD	BC782500CD
* 23.8	0.938"	BC1516170200CD	BC1516800CD	BC15162500CD
* 25.4	1.000"	BC100170200CD	BC100800CD	BC1002500CD
* 29	1.125"	BC118170200CD	BC118800CD	BC1182500CD
* 31.8	1.250"	BC114170200CD	BC114800CD	BC1142500CD
* 35	1.375"	BC138170200CD	BC138800CD	BC1382500CD
* 38	1.500"	BC112170200CD	BC112800CD	BC1122500CD

*Sizes Available on Special Order



APPLICATIONS

CARBIDE WEAR PARTS
 GUIDE AND DRILL BUSHINGS
 CERAMIC CYLINDERS
 HEAT TREATED STEEL
 HIGH NICKEL STAINLESS STEEL

MMX ALUMINUM ALLOYS
 CHROMED AND PLATED BORES
 AEROSPACE COMPONENTS
 MEDICAL PARTS
 EDM RECAST LAYERS

EASILY ACHIEVE

- MORE PARTS PER TOOL
- OPTIMAL SURFACE FINISHES



DIAMOND

FLEX-HONE