



## Diamond – Pads Manual

### Applications

Suitable for grinding and polishing (using various grits) materials such as stone, ceramics, glass, marble (e.g., repairing marble floors), and more. These handy diamond hand pads allow you to easily work on curved surfaces (such as pre-rolled river stones) as well as flat areas, ranging from coarse to fine depending on the grit selected. Working with diamond ensures a clean, fast process without requiring heavy pressure.

*Note: The object should not have sharp edges or spikes.*

### Important: Always Work WET

Always perform the process wet to prevent the generation of harmful dust. Keep a small, flat bowl of water next to your workspace. Frequently dip the diamond side of the pad into the water to rinse off abrasion debris and to rewet the surface of the object. If the object itself accumulates too much dust or sludge during the process, rinse it in the water bowl as well.

### The Polishing Process (Grit Sequence)

To complete a full restoration or finishing process, follow this standard sequence:

- **Start:** Begin with **Grit 200** (coarse). For extremely rough surfaces, you may start with **Grit 120** (very coarse).
- **Progression:** Step up sequentially through **Grit 400, 800, 1200, or 1500**.
- **Finishing:** Use **Grit 3000** for the final high-gloss polish.

### Determining the Grinding Duration

The time required for each grit depends on the material and your own assessment. Check your progress regularly:

1. Wipe away any grinding residue from the object using an old cloth.
2. Inspect the processed surface closely under a bright light source.
3. Tilt and move the object under the light to examine the surface from alternating angles.
4. Once you notice that the surface look no longer changes—meaning it has achieved a completely uniform finish—switch to the next finer grit and repeat the steps.

### Material Types & Tips

Materials range from very hard to soft, and you will quickly feel the difference while working. However, diamond tackles any material and offers the fastest results.

Working on stones that have already been naturally shaped and pre-rolled by a river or the sea requires the least time and effort. When collecting them, you saw how beautiful "your" stone looked when wet in the water. This hand-grinding process allows you to bring out that exact brilliant shine as a permanent, lasting beauty at home.

## Handling and Technique

### Handling Different Object Sizes

Naturally, large pieces are the easiest to handle. They can be held comfortably in the palm of your hand, allowing you to grind the exposed top surface without accidentally touching your fingertips against the diamond. The smaller the object becomes, the more difficult it is to hold securely. In such cases, it may be easier to place the diamond pad flat on your workspace and move the object across it instead. Whichever method you use:

**always keep both the object and the diamond surface WET.** Remember the old saying: "Experience is the best teacher—give it a careful try."

### **Step-by-Step Guide for Grinding**

1. Select the most beautiful and largest surface of your stone.
2. If you are right-handed, clamp the stone firmly in the palm of your left hand and hold the diamond hand grinding pad in your right hand (reverse if left-handed).
3. Wet both the diamond grinding surface and the stone's target surface in your prepared water bowl.
4. Begin grinding across the entire exposed surface using long, sweeping strokes as well as circular motions.

*Attention:* As soon as the stone surface or the diamond pad becomes covered with abrasion dust or sludge, you must rinse them off in your water bowl immediately. This rinsing action conveniently leaves water on the diamond surface, which is then automatically transferred back onto your object. **Keep both surfaces wet at all times.**

### **Displaying Your Finished Piece**

Grinding only one side of the stone can be an excellent choice. This allows you to show others what the stone originally looked like when found. By turning it over, you can display how it looked in the water—seemingly polished, though it wasn't. Now, thanks to the skills of an experienced "hand grinder," they can admire the permanent, brilliant glory of a true polish.

### **Disposal**

Simply dispose of the used pad with your standard household waste.

### Körnung nach der Farbe:

Black: grit 120

Red: grit 200

Yellow: grit 400

White: grit 800

Blue: grit 1500

Orange: grit 3000

We wish you lot of fun and success,

**IH+B Team**