

## **DMT® Use and Care Instructions**

### **DMT® commitment:**

Since 1976, DMT® has been committed to one thing; to innovate and produce the world's finest diamond knife and tool sharpeners. All DMT® products are made using the highest quality materials and workmanship and are guaranteed to be free of defects. Any product found to be defective, will be replaced - it is that simple!

### **Basics and Tips:**

A cutting edge is comprised of the intersection of two planes to form an edge. The angle formed by these two planes is the bevel angle. Sharpening is the removal of material from a bevel face to keep a well-defined edge. Sharp tools are essential to everyone and maintaining a sharp edge allows for a safer easier working environment.

Keeping a sharp edge on your tools is quick and simple when using a DMT Diamond sharpener, whether bench stone or pocket models, interrupted diamond surface or continuous. The diamonds remove material from the edge as it slides across the sharpener. You can use your DMT stone dry or with water; as you sharpen, metal fines will accumulate on the sharpening surface so you should thoroughly wash the surface and dry after using.

Be sure you have cleaned your edge, whether knife, blade, pruner, chisel, etc., before sharpening.

### **Different DMT® surfaces**

The interrupted, or polka dot pattern is extremely efficient as the recessed holes collect metal fines to prevent loading. The continuous diamond surfaced stone (Dia-Sharp®) is slightly less aggressive, but as effective in sharpening. Selection is a personal preference.

### **Grit Selection**

Please note that grit designation is laser marked on DiaSharp® models, color coded on interrupted surface models (Coarse - Blue; Fine - Red; Extra-Fine - Green)

- Coarse (45 micron / 325 mesh) Quickly restores a neglected edge.
- Fine (25 micron / 600 mesh) Puts a keen edge on a regularly maintained edge.
- Extra-Fine (9 micron / 1200 mesh) Polishes and refines a razor edge after sharpening with a coarser grit

It will only take a few quick strokes of your edge on the DMT<sup>®</sup> sharpener, when you notice your edge starts to dull, and you will never be without a keen edge. Apply gentle strokes to sharpen (about the same as you use when shaving). **You need not exert extra pressure, let the diamonds do the work!**

If you maintain your edges, a fine diamond stone will be all you need. If you have edges that have been neglected, start with a coarse stone and finish with a fine diamond. If you want a more polished edge, after using a fine diamond, complete with an extra-fine stone.

Do not over sharpen. About 30 strokes on a conventional sharpening stone is equivalent to about 5 or 6 strokes on a DMT sharpener. This will save you time and extend the life of your tool. You can also repair lost edges or nicks by starting with coarser grit sizes and stepping down, as the edge gets sharper. Match the bevel with the sharpener to maintain your edge. Even more important than matching the bevel however is to keep a constant angle so you have a consistent edge.

## **Break-in Period**

Initially, the diamond surface will seem aggressive in nature; the diamond sharpener will smooth after initial sharpening with no impact to long term performance.

## **Overview**

- ◆ Sharpening = removal of material.
- ◆ Sharpening keeps tools safer and easier to use.
- ◆ Interrupted diamond surface vs. continuous diamond surface - personal preference.
- ◆ Start with larger grit sizes then step down to refine your edge.
- ◆ Match bevel angle (but MORE IMPORTANT keep angle constant).
- ◆ Do not over sharpen.
- ◆ Initial sharpening = break-in period

## **Cleaning and Maintenance**

### **Cleaning Whetstones (polka dot) or DiaSharps (continuous):**

Cleaning and care of a DMT<sup>®</sup> stone is simple and necessary for best performance. After using a DMT<sup>®</sup> Diamond Bench Stone or Sharpener simply wet it (if it is not already lubricated with water) and wipe the slurry off with a rag. This slurry is evidence that the sharpener has done its job. If the swarf is not wiped off the sharpener after use it may clog up the diamond and not allow it to sharpen as well as it could were it clean.

Also, once in a while it is a good idea to get a common powdered cleanser and scrub the sharpener with a stiff nylon brush. This will ensure the sharpener is not clogged with slurry and will allow for optimal sharpening. Finally, make sure you store your sharpeners dry after you clean them off.

## Overview

- ◆ Clean off with rag after use
- ◆ Not cleaning will result in clogging
- ◆ Scrub with cleaner periodically
- ◆ Store dry

## Use and Cleaning DiaFlat™ Flattening Stones:

DMT® has engineered a product designed specifically for this purpose; the DMT® DiaFlat™ Lapping Plate. It utilizes 120 micron / 120 Mesh size diamond to quickly flatten any grade of water stone or any other type of sharpening stone. Use of our newly developed proprietary DMT® Diamond Hardcoat Technology™ allows the DiaFlat™ to withstand the extreme service conditions incurred when flattening other abrasive sharpening stones.

- Ideally, **use under running water or submersed in a pan of water** for best results in order to quickly flush away the slurry that is generated when flattening. (Note: do not use in a sink that has a garbage disposal unit as the slurry is detrimental to the disposal bearings)
- Some DMT Diamond Sharpeners in the past have been used; i.e. DiaSharp™, for flattening, however, they were designed for sharpening, **not flattening**, therefore, **DMT® assumes no liability for sharpening stones worn out due to this method of use.**

## Ceramic Use and Care Instructions

### Break In:

The ceramic product has been made using a patented process that creates a two layer ceramic coating on the surface of an aluminum base. During your first few sharpening strokes, some shedding of the outer layer may occur, looking like smoke, this is a normal break in process for the ceramic surface. After the first few sharpening's, this outer layer will be completely removed, leaving a very hard and long wearing, unbreakable ceramic sharpener; which will provide the ultimate in edge refinement. Use gentle and smooth stroking to ensure long life of this product. **Excessive force and hacking will result in damage and void warranty.**

### Care:

After use; rinse, dry, (**always store dry**). When cleaning is needed, the ceramic surface can be cleaned a high polymer eraser.

For additional information and instructional videos, visit our web site [www.dmtsharp.com](http://www.dmtsharp.com)

Thank you for choosing DMT® for all of your sharpening needs!

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