

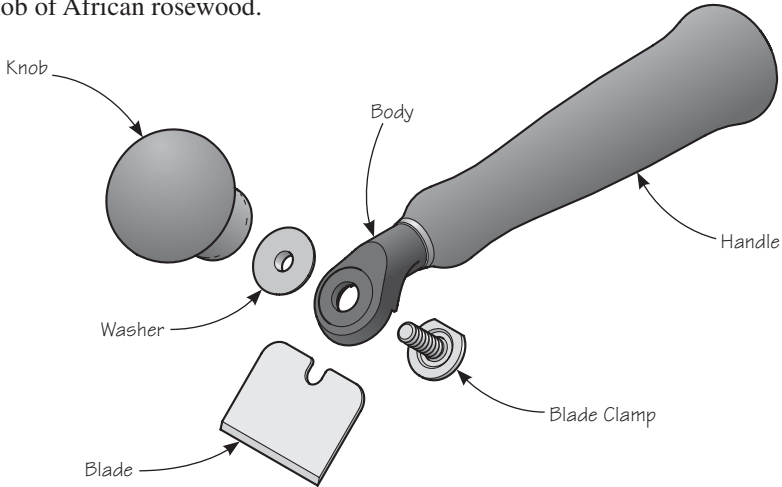
*veritas*<sup>®</sup>  
Chairmaker's Scraper



05P33.80

# Introduction

The Veritas® Chairmaker's Scraper is a versatile tool for fast, effective final shaping and smoothing of furniture components. The scraper comes standard with one straight blade for flat work. The four optional blades, three concave ( $1/2"$ ,  $7/8"$  and  $1\ 1/4"$  diameter) and one convex ( $1\ 1/2"$  radius), are ideal for working chair spindles, rungs, legs, and seat pans. All blades are  $0.060"$  thick high-carbon steel, hardened to Rc48-52 and come with a finely ground  $45^\circ$  cutting edge. The machined cast steel body is fitted with a large, comfortable rear handle and front knob of African rosewood.



**Figure 1: Chairmaker's scraper components.**

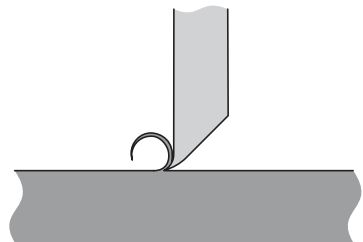
# Instructions for Use

The chairmaker's scraper is used with a pulling action. Since you will achieve the best results when working with the grain, you will have to rotate the workpiece as needed.

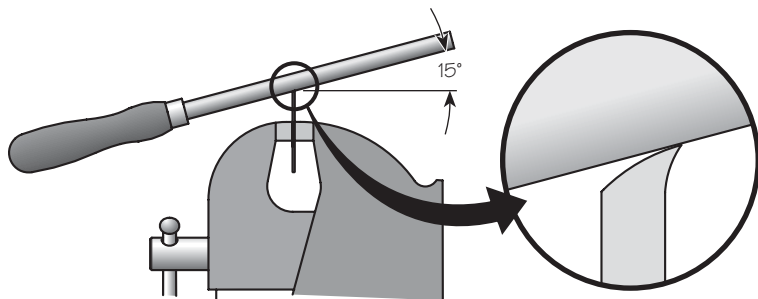
# Sharpening

The bevel angle on the supplied straight blade is ground at  $45^\circ$ , making it easy to burnish or deform the metal of the bevel into a relatively aggressive burr or hook (see **Figure 2**).

The burnishing angle should be about  $15^\circ$  (see **Figure 3**). An angle of  $20^\circ$  or more will result in too much scraping and not enough cutting (producing dust, not shavings). Smaller angles (closer to horizontal) may not cut at all as no cutting edge is introduced to the wood, or there may be no relief angle and the blade will just slide along the surface of the workpiece.

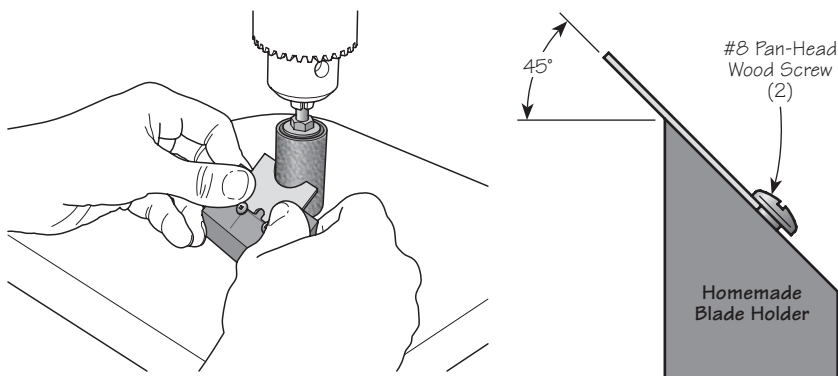


**Figure 2: Scraper cutting detail.**



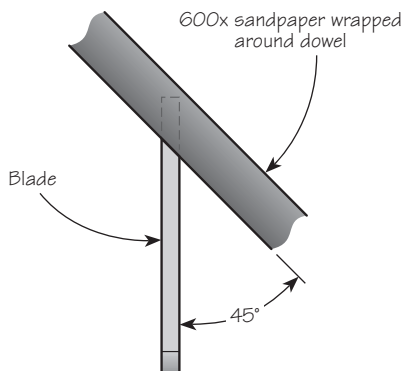
**Figure 3: Burnishing.**

To maintain the proper shape of the optional convex and concave blades, do not regrind these until absolutely necessary (i.e., when you can no longer create an acceptable cutting edge by honing). To maintain the 1½" radius on the convex blade, use a back-and-forth sweeping motion as you hone and lap. The best way to accurately regrind the bevel on the concave blades is with a simple homemade blade holder and sanding drum in a drill press. Use a ½" dia. drum on the ½" blade, a 1" dia. drum on the 7/8" blade, and a 1½" dia. drum on the 1¼" blade.

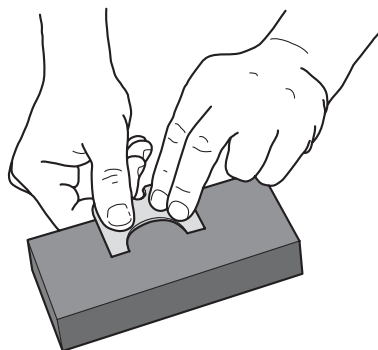


**Figure 4: Grinding the bevel.**

Use a carver's slip or a sheet of 600x sandpaper wrapped around a dowel to hone the cutting edge bevel as shown in **Figure 5**. Hone only until a fine wire edge develops. Then, as shown in **Figure 6**, lap the face of the blade near the cutting edge on a 1000x stone to achieve the same finish as on the bevel. A sharp edge can only be achieved by creating two intersecting surfaces honed to the same degree.



**Figure 5: Honing.**



**Figure 6: Lapping.**

## Care and Maintenance

The blade and the machined surface on the body under the blade come treated with rust preventative. Remove this using a rag dampened with mineral spirits.

If storage conditions are damp or humid, your chairmaker's scraper should be wrapped in a cloth or stored in a plane sack. This precaution will also guard against dings and scratches.

The bright finish on the brass components can be maintained with a light coat of silicone-free paste wax. If a patina finish is preferred, simply leave the brass components unprotected until the desired level of oxidation has occurred, then apply a sealant. If you want to make them bright and shiny again, you can revitalize the surface with a brass polish.

The rosewood knob and handle have a lacquer finish and should require nothing more than a wipe with a clean cloth from time to time.

## Accessories

<b>05P33.81</b>	Chairmaker's Scraper Blade, straight
<b>05P33.82</b>	Chairmaker's Scraper Blade, 1/2" concave
<b>05P33.83</b>	Chairmaker's Scraper Blade, 7/8" concave
<b>05P33.84</b>	Chairmaker's Scraper Blade, 1 1/4" concave
<b>05P33.85</b>	Chairmaker's Scraper Blade, 1 1/2" convex
<b>05P33.88</b>	Chairmaker's Scraper Blades, set of 4

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