

Designed for use in a traditional hand brace, this reamer can taper an existing hole to have a minor diameter greater than $7/16''$ and a major diameter less than $13/16''$. It is particularly useful for tapering through holes where you want to be able to wedge tenons, such as in chair construction. It cannot be used to bore a hole directly. With an included angle of 12.8° , this reamer is an excellent complement to the Veritas® Tapered Tenon Cutters for making chair-leg socket joints. A pair of set screws not only controls the blade position for the depth and angle of cut, but also adjusts it for use in either softwood or hardwood. The spring-steel blade is removable for ease of sharpening.

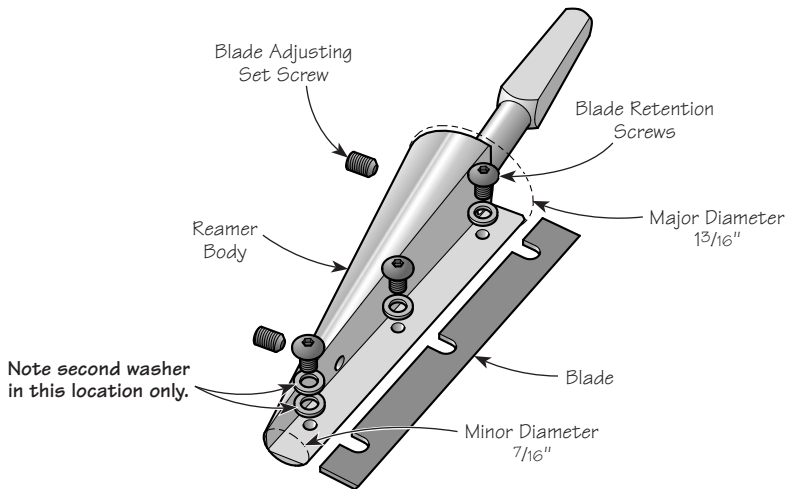


Figure 1: Reamer components.

Use

The reamer is for use in a pilot hole that is a minimum of $7/16''$. To start, firmly install the reamer in your brace chuck. With a visual reference device (such as a sliding bevel) placed adjacent to the pilot hole and set to the desired angle, press the reamer into the pilot hole and rotate clockwise, as shown in **Figure 2**. Check the angle often and correct as required. Stop to clear chips as needed.

⚠ Do not modify the reamer for power tool use!
It has not been designed for speeds and forces beyond those that can be applied by hand.

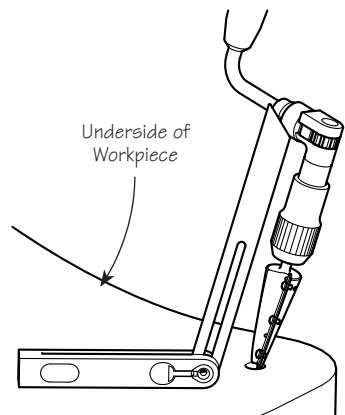



Figure 2: Reaming a leg socket at a desired angle.

Adjustment

 **Caution:** Be careful when adjusting the blade as the edge is sharp.

Depth of Cut – To adjust the depth of cut, loosen all three blade retention screws using the hex key supplied. Hold the blade in place, lightly pressing down on the cutting edge between the set screws. Use the hex key to turn the set screws, so that the blade is advanced or retracted as required. Be sure to turn the set screws an equal amount; otherwise, the taper angle will be changed. Tighten the blade retention screws to secure the blade. Try a couple of test holes in offcuts to check the new setting.

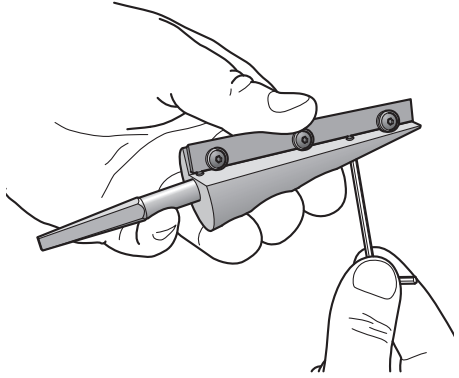


Figure 3: Adjusting the depth of cut.

Angle – To achieve the best possible fit between tenon and socket, the blade's angle may be adjusted. Follow the same process as outlined above for adjusting depth of cut, with the exception that the set screws must be turned an unequal amount so that the blade's angle is adjusted as required.

Sharpening

The blade is manufactured with a straight cutting edge ground at 60°. When new, no additional sharpening should be necessary; however, the blade will eventually require reshaping. For use in hardwoods, lap and hone the blade at 60°; for softwoods, you may also want to burnish a hook on the cutting edge.

Care and Maintenance

The body of the reamer is made from a steel alloy selected and heat treated for toughness. Although it will usually withstand hard knocks without material failure, avoid dropping the reamer on a hard surface such as a concrete floor.

Store in a dry place. The reamer can rust if exposed to moisture or humid conditions. As with any iron or steel tool, an occasional application of silicone-free paste wax will prevent rust.

Accessory

05J61.02 Replacement Blade