

ROCKLER 24727 3-Piece Mortise Chisel Sharpening Set Instructions

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Sharpening the Mortise Chisel



- Mortise chisel and bit sets have very sharp edges. Use extreme caution when installing, removing or handling the chisel and bit.
- Always make sure the drill press or mortising machine is turned off and unplugged before removing the mortise chisel insert and bit.

Caution:

- If you elect to mount the sharpening cone in a handheld drill or drill press, do NOT exceed 250 rpm. Excessive speed will create high temperatures that can ruin the mortising chisel or bonding of the diamond abrasive to the cones.
 - 1. Remove the auger-style bit from inside the mortise chisel. Secure the mortise chisel in a bench or drillpress vise so that it is perfectly vertical. This is especially essential if you are using a drill press to sharpen the chisel.
 - 2. Mount the appropriate sharpening cone for your application in the handle that came with the 3-Piece Mortise Chisel Sharpening Set, making sure it seats fully in the quick-change chuck. (To release the cone, pull back on the handle collar.)
 - 3. Lower the sharpening cone, tip first, into the center of the cutting end of the mortise chisel. The cone should be in perfect vertical alignment with the chisel so that the diamond abrasives sharpen all of the chisel's inside bevels equally. This will result in cutting edges of equal height for the most efficient boring action. Fig. 1

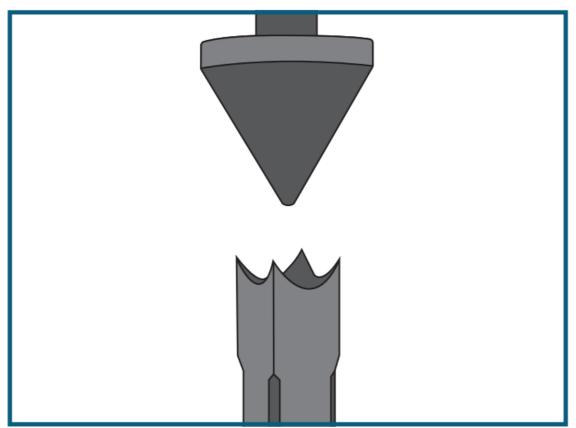


Fig. 1

4. Slowly hone the chisel until any nicks are removed and all cutting bevels are sharp. Do not force the cone into the chisel; use a light touch, especially for final honing. This will allow the diamond abrasives to cut more efficiently and prevent damaging heat buildup. **Fig. 2**

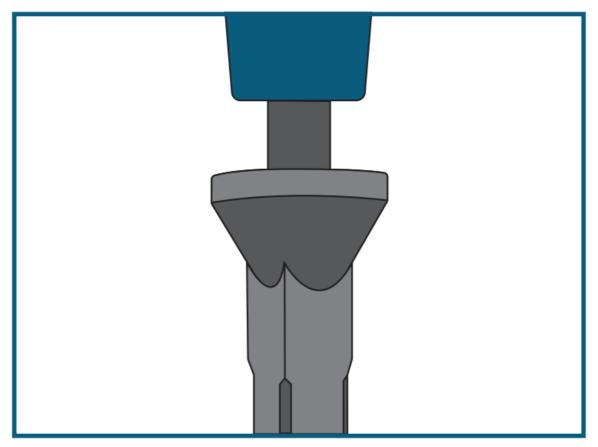


Fig. 2

- 5. If you started out with the 220-grit cone for initial sharpening, switch to the 600-grit cone and repeat Steps 3-4 to complete final honing.
- 6. Remove the mortise chisel from the vise and use an extra-fine honing stone or micro-abrasive on a honing plate to lightly touch up and remove any burrs on the outside flats of the chise.

Check <u>Rockler.com</u> for updates. If you have further questions, please contact our Technical Support Department at 1-800-260-9663 or <u>support@rockler.com</u>.

GENERAL SAFETY WARNINGS

This product is designed only for specific applications as defined in the instructions and should not be modified or used for any manner not described in these instructions. Use only recommended accessories. Before using the 3-Piece Mortise Chisel Sharpening Set: READ, UNDERSTAND and FOLLOW ALL INSTRUCTIONS AND SAFETY WARNINGS. KEEP THESE INSTRUCTIONS READILY AVAILABLE FOR FUTURE REFERENCE.

- Always confirm that you are using the most recent version of the Instructions and safety warnings for your
 product (see the Instructions link on the product page at <u>Rockler.com</u>).
- Before using another tool with this product, always read, understand and follow the instructions and safety
 warnings in the owner's manual for that tool. If you do not have the owner's manual, obtain one from the tool's
 manufacturer before using it with this product.
- Before using any chemical with this product, always read, understand and follow all safety warnings and guidelines in the manufacturer's Safety Data Sheet (SDS; formerly called "MSDS"), especially regarding:
 - How to safely use the chemical, including potential hazards and recommended first aid measures;
 - Personal safety equipment required to safely use the chemical (e.g. gloves, eye protection, mask/respirator, etc.);

- Proper and safe handling, storage and disposal of the chemical.
- Before using this product, review and verify that all tools to be used with it have safety equipment installed and are in proper working order as defined by the tool's owner's manual.
- Do not use this product until you have read and are confident you understand the instructions.
- The user assumes all risk and responsibility for the proper and safe use of this product and for ensuring product suitability for the intended application.
- It is the sole responsibility of the purchaser of this product to ensure that anyone you allow to use this product reads and complies with all instructions and safety precautions outlined in this manual prior to use.
- Follow all standard shop safety practices, including:
 - Keep children and bystanders away from the tool operating area;
 - Do NOT use power tools in explosive environments, or in the presence of flammable liquids, fumes or dust;
 - TURN OFF AND UNPLUG all power tools BEFORE making any adjustments or changing accessories;
 - Remain alert and use good judgment. Do not use this product if you are in any way impaired by medications, alcohol, drugs or fatigue;
 - Keep your work area well lit and clean;
 - Dress appropriately. Secure loose clothing, remove all jewelry and tie up long hair before using this
 product;
 - ALWAYS wear safety glasses, hearing protection and respiratory protection that complies with NIOSH/OSHA/ANSI safety standards;
 - Use dust collection tools and dust face masks to reduce exposure to dust;
 - Use safety equipment such as feather boards, push sticks and push blocks, etc., when appropriate;
 - Maintain proper footing at all times and do not overreach;
 - Do NOT force woodworking tools.
- These warnings and instructions do NOT represent the total of all information available regarding tool safety, use and technique. Always seek out opportunities to learn more and improve your skills and knowledge.

Warning: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

Danger indicates a hazardous situation that, if not avoided, will result in death or serious injury.

Warning indicates a hazardous situation that, if not avoided, could result in death or serious injury.

Caution indicates a hazardous situation that, if not avoided, may result in minor or moderate injury or property damage.

Notice indicates important or helpful information and/or user tips.

Documents / Resources



ROCKLER 24727 3-Piece Mortise Chisel Sharpening Set [pdf] Instructions 24727, 3-Piece Mortise Chisel Sharpening Set, 24727 3-Piece Mortise Chisel Sharpening Set

References

- Woodworking Tools, Hardware, DIY Project Supplies & Plans Rockler
- **<u>P65Warnings.ca.gov/wood</u>**
- Woodworking Tools, Hardware, DIY Project Supplies & Plans Rockler

Manuals+,