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› [Nova](#) /

› [NOVA 6008 Dovetail Chisel Wood Lathe Chuck Accessory OLD Model User Manual](#)

### Nova 6008

# NOVA 6008 Dovetail Chisel Wood Lathe Chuck Accessory

User Manual

## 1. INTRODUCTION

The NOVA 6008 Dovetail Chisel Chuck Accessory is specifically designed for use with NOVA Chucks. This precision tool allows woodturners to quickly and accurately create the necessary dovetail recess for securely chucking bowls and other workpieces on a wood lathe. Its design ensures a sharp, clean edge that perfectly matches the dovetail contour of NOVA Accessory Jaws, providing maximum holding power and stability during turning operations.

Key features include:

- Quick and accurate dovetail recess creation.
- Ensures a sharp, clean edge for optimal chuck grip.
- Designed to maximize holding power with NOVA Chucks.
- Features a handy mark-out scale for precise guidance.



Figure 1: The NOVA 6008 Dovetail Chisel, featuring a wooden handle and a flat, angled blade designed for cutting dovetail recesses.

## 2. SETUP

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Before using the NOVA 6008 Dovetail Chisel, ensure your wood lathe is properly set up and secured. The workpiece (e.g., bowl blank) should be mounted securely on the lathe, typically between centers or on a faceplate, allowing for initial shaping and preparation of the area where the dovetail recess will be cut.

- Secure Workpiece:** Mount your bowl blank or workpiece firmly on the lathe. Ensure it is balanced and runs true.
- Prepare Turning Area:** Turn the area where the dovetail recess will be created to a flat or slightly concave surface, suitable for the chisel's application.
- Tool Rest Positioning:** Position the tool rest close to the workpiece, ensuring it is at the correct height for comfortable and safe tool presentation. The chisel should be presented slightly above center for optimal cutting.

## 3. OPERATING INSTRUCTIONS

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The NOVA 6008 Dovetail Chisel is designed for precise cutting of dovetail recesses. Follow these steps for effective and safe operation:

- Marking the Recess:** Use the integrated mark-out scale on the chisel as a guide to determine the desired width and depth of your dovetail recess. This scale helps ensure consistency and proper fit with your NOVA chuck jaws.
- Initial Cut:** With the lathe spinning at an appropriate speed for the workpiece size and material, present the chisel to the workpiece. Begin by making a shallow cut to establish the outer diameter of the recess. The unique profile of the chisel's blade is designed to create the correct dovetail angle.
- Deepening the Recess:** Gradually deepen the cut, working from the outer edge towards the center. Maintain a firm grip on the chisel and keep it flat on the tool rest. The chisel's design will naturally form the dovetail shape as you cut.

- Creating the Inner Shoulder:** Once the desired depth is approached, use the chisel to clean up the inner shoulder of the recess, ensuring it is flat and perpendicular to the lathe's axis. This provides a solid seating surface for the chuck jaws.
- Checking Fit:** Periodically stop the lathe and check the fit of your NOVA chuck jaws into the newly cut dovetail recess. The recess should allow the jaws to expand or contract fully and grip the wood securely. The sharp, clean edge created by the chisel is crucial for maximum holding power.



Figure 2: A closer view of the NOVA 6008 Dovetail Chisel's blade, showing the precise cutting edge and integrated markings for accurate recess creation.

## 4. MAINTENANCE

Proper maintenance will extend the life and performance of your NOVA 6008 Dovetail Chisel.

- Sharpening:** Regularly sharpen the chisel's cutting edge to maintain its effectiveness. A sharp tool cuts cleanly and reduces the risk of catches. Use appropriate sharpening stones or jigs to maintain the original bevel angle.
- Cleaning:** After each use, wipe down the blade to remove wood dust and debris. A light coat of rust preventative oil can be applied to the blade if storing for extended periods, especially in humid environments.
- Storage:** Store the chisel in a dry place, ideally in a tool rack or protective sleeve, to prevent damage to the cutting edge and handle.
- Handle Care:** Inspect the wooden handle periodically for cracks or looseness. If necessary, tighten the ferrule or apply a wood finish to protect the handle.

## 5. TROUBLESHOOTING

If you encounter issues while using your NOVA 6008 Dovetail Chisel, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Dovetail recess is not clean or sharp.	Dull cutting edge; incorrect tool presentation; too aggressive a cut.	Sharpen the chisel. Ensure the chisel is presented flat on the tool rest and at the correct height. Take lighter, more controlled cuts.
Chuck jaws do not grip securely.	Incorrect dovetail angle or depth; recess not concentric.	Verify the mark-out scale is used correctly. Ensure the workpiece is running true. Re-cut the recess if necessary, paying attention to the chisel's angle.
Tool catches or digs into wood.	Tool rest too far from workpiece; tool presented below center; dull edge.	Adjust tool rest closer to the workpiece. Raise tool rest slightly so the chisel is presented at or slightly above center. Sharpen the chisel.

## 6. SPECIFICATIONS

Attribute	Detail
Brand	Nova
Model Number	6008
Product Dimensions	12.4" L x 2.75" W
Item Weight	1.5 pounds
Material	Steel, Wood
Blade Material	Stainless Steel
Blade Edge	Bevel
Handle Material	Plastic or Metal (as per specifications, though image shows wood)
UPC	785533623550, 669762002723
Manufacturer	NOVA (Teknatoil International)

## 7. WARRANTY AND SUPPORT

The NOVA 6008 Dovetail Chisel is backed by a **2-Year Full Replacement Warranty** from Teknatoil International, the innovators of the 4 Jaw Chuck for wood turning since 1955.

For warranty claims, technical assistance, or further support, please contact NOVA customer service or visit the official Teknatoil International website. Ensure you have your product model number (6008) and proof of purchase available when seeking support.

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