

[Manuals.plus](#) /

› [NAVAC](#) /

› NAVAC NTR14 Internal/External Reamer Instruction Manual

NAVAC NTR14

NAVAC NTR14 Internal/External Reamer Instruction Manual

Model: NTR14

PRODUCT OVERVIEW

The NAVAC NTR14 Internal/External Reamer is a versatile tool designed for deburring copper tubing. It features 40 individual alloy steel blades for efficient and clean removal of burrs from both the inside and outside surfaces of pipes. Its ergonomic design ensures comfortable and secure handling during operation.

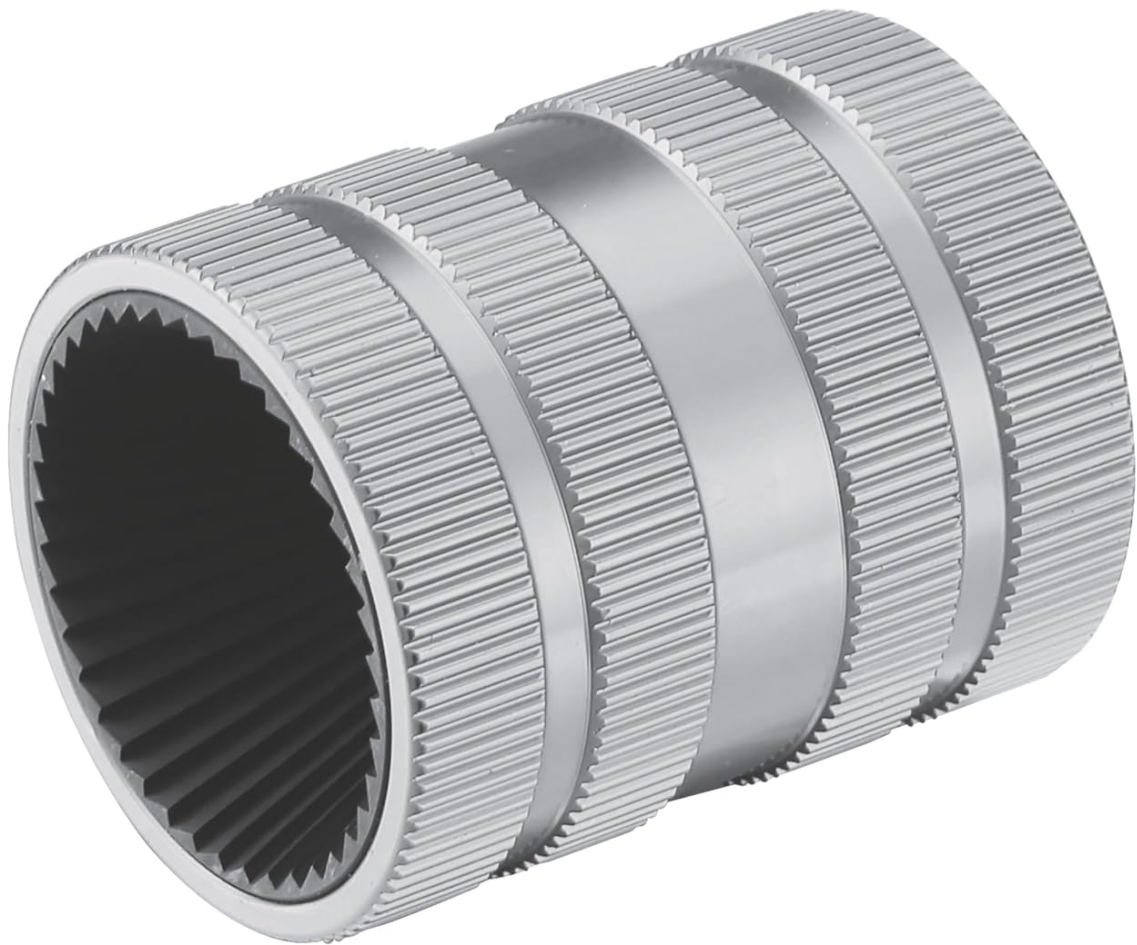


Image: The NAVAC NTR14 Internal/External Reamer, showcasing its robust design and deburring blades.

SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses, when using the reamer.
- Ensure the workpiece is stable and secure before deburring.
- Keep fingers and other body parts clear of the cutting blades during operation.
- Store the reamer in a safe place, away from children and unauthorized users.
- Inspect the reamer blades for damage or wear before each use. Do not use if blades are dull or broken.

SETUP

The NAVAC NTR14 Reamer is designed for immediate use with minimal setup. Before first use, and periodically thereafter, inspect the tool for any signs of damage or manufacturing defects. Ensure the blades are clean and free of debris.

1. Unpack the reamer from its packaging.
2. Visually inspect the internal and external blades for sharpness and integrity.
3. Ensure the aluminum body is clean and provides a secure grip.

OPERATING INSTRUCTIONS

The NTR14 reamer is suitable for deburring copper tubing with outside diameters ranging from 1/8 inch to 1-1/2 inches.

Internal Deburring

1. After cutting the tube, identify the internal burr.
2. Insert the tapered end of the reamer into the end of the tube.
3. Apply light pressure and rotate the reamer clockwise or counter-clockwise within the tube.
4. Continue rotating until the internal burr is completely removed and the tube edge is smooth.
5. Remove the reamer and inspect the tube for a clean, burr-free internal edge.

External Deburring

1. Identify the external burr on the cut tube.
2. Place the tube end into the larger opening of the reamer, aligning the external burr with the outer cutting blades.
3. Apply light pressure and rotate the reamer around the tube, or rotate the tube within the reamer.
4. Continue rotating until the external burr is completely removed and the tube edge is smooth.
5. Remove the reamer and inspect the tube for a clean, burr-free external edge.

Always ensure all burrs are removed to prevent issues such as refrigerant leaks or restricted flow in HVAC/R systems.

MAINTENANCE

- **Cleaning:** After each use, clean the reamer blades to remove any metal shavings or debris. A soft brush or compressed air can be used. Avoid using harsh chemicals that may damage the tool's finish or blades.
- **Storage:** Store the reamer in a dry, clean environment to prevent corrosion. Keep it in its original packaging or a tool bag to protect the blades from damage.
- **Inspection:** Periodically inspect the blades for signs of wear, dullness, or damage. While the blades are durable, excessive force or improper use can lead to premature wear.

TROUBLESHOOTING

Most issues with the NTR14 reamer are related to improper technique or blade condition.

Problem	Possible Cause	Solution
Burrs not fully removed	Insufficient rotation or pressure; dull blades.	Apply more consistent pressure and rotate the reamer more times. Inspect blades for dullness; if severely dull, consider replacement.
Tube surface scratched	Excessive force; debris on blades.	Use lighter pressure. Clean blades thoroughly before use.
Difficulty rotating reamer	Tube size outside specified range; excessive pressure.	Ensure tube OD is within 1/8" to 1-1/2". Reduce pressure.

SPECIFICATIONS

Feature	Detail
Model Number	NTR14
Tube OD Capacity	1/8 inch to 1-1/2 inches
Blade Material	Alloy Steel (40 individual blades)
Body Material	Aluminum
Package Dimensions	4.17 x 2.2 x 2.17 inches
Item Weight	7.41 ounces

WARRANTY AND SUPPORT

The NAVAC NTR14 Internal/External Reamer comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or any product-related inquiries, please contact NAVAC customer support:

- **Website:** Visit the official NAVAC website for support resources and contact information.
- **Email:** Refer to your product packaging or the NAVAC website for the most current support email address.
- **Phone:** Refer to your product packaging or the NAVAC website for the most current support phone number.

Please have your model number (NTR14) and proof of purchase ready when contacting support.

