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› KNIPEX 83 10 020 90° Pipe Wrench User Manual

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Model: 83 10 020 | Brand: KNIPEX

1. PRODUCT OVERVIEW

The KNIPEX 83 10 020 is a robust pipe wrench designed for professional use. It features a Swedish pattern with 90° angled jaws, engineered for secure gripping of pipes and nuts. The jaws are equipped with offset teeth in opposite directions, enhancing grip, and are additionally induction hardened for increased durability and wear resistance.

Key Features:

- Swedish pattern with 90° angled jaws for optimal access and grip.
- Jaws with offset teeth in opposite directions for enhanced gripping force.
- Induction hardened teeth ensure long-lasting performance and resistance to wear.
- Constructed from durable Chrome Vanadium Steel.
- Powder-coated finish for corrosion resistance.



Figure 1: Full view of the KNIPEX 83 10 020 90° Pipe Wrench.

2. SETUP

The KNIPEX 83 10 020 pipe wrench is ready for use directly out of the packaging. No assembly is required. Before first use, and periodically thereafter, perform a visual inspection:

- **Inspect Jaws:** Ensure the teeth are clean and free from debris or excessive wear.
- **Check Adjustment Mechanism:** Verify that the adjustment nut turns smoothly and securely locks the jaws in place.
- **Examine Handles:** Confirm handles are free from cracks or damage that could affect grip or structural integrity.



Figure 2: Close-up of the knurled adjustment nut for jaw width.

3. OPERATING INSTRUCTIONS

This pipe wrench is designed for gripping and turning pipes, fittings, and hexagonal nuts. Always wear appropriate personal protective equipment, such as safety gloves and eye protection, when using hand tools.

3.1 Adjusting Jaw Opening

1. Hold the wrench firmly.
2. Rotate the knurled adjustment nut (as shown in Figure 2) to open or close the jaws.
3. Adjust the jaws so they are slightly wider than the object you intend to grip.

3.2 Gripping and Turning

1. Position the wrench jaws around the pipe or nut. Ensure the object is seated deeply within the jaws for maximum contact with the teeth.

2. Tighten the adjustment nut until the jaws firmly grip the object. The offset teeth are designed to bite into the material, providing a secure hold.
3. Apply force to the handle in the desired direction of rotation. The 90° angled jaws allow for effective leverage, especially in confined spaces.
4. For optimal grip, ensure the direction of rotation causes the jaws to tighten further onto the object.



Figure 3: Wrench jaws securely gripping a hexagonal nut.



Figure 4: Wrench jaws gripping a round pipe, demonstrating the secure hold.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your KNIPEX pipe wrench.

- **Cleaning:** After each use, wipe down the wrench with a clean, dry cloth to remove dirt, grease, and moisture. For stubborn grime, a mild solvent can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light machine oil to the adjustment screw and pivot points to ensure smooth operation and prevent corrosion.
- **Storage:** Store the wrench in a dry environment to prevent rust. Avoid storing it in damp conditions or where it may be exposed to corrosive chemicals.
- **Inspection:** Regularly inspect the jaws for wear or damage. Worn teeth can reduce gripping effectiveness and should be addressed.

5. TROUBLESHOOTING

If you encounter issues with your pipe wrench, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Wrench slips on pipe/nut.	Jaws not tightened sufficiently; worn teeth; incorrect wrench size for object.	Ensure jaws are tightly adjusted. Inspect teeth for wear and replace if necessary. Use the correct size wrench for the application.
Adjustment nut is stiff or difficult to turn.	Accumulated dirt/debris; lack of lubrication; minor corrosion.	Clean the adjustment mechanism thoroughly. Apply a light machine oil to the screw threads.
Tool shows signs of rust.	Exposure to moisture or corrosive environments.	Clean off rust with a wire brush or rust remover, then apply a protective oil coating. Store in a dry place.

6. SPECIFICATIONS

Technical specifications for the KNIPEX 83 10 020 90° Pipe Wrench:

Attribute	Detail
Model Number	83 10 020
Brand	KNIPEX
Material	Chrome Vanadium Steel
Item Length	560 Millimeters
Item Weight	1.32 Pounds (approx. 0.6 kg)
Jaw Angle	90°
Jaw Capacity (Spannweite)	70 mm
Finish Type	Powder Coated
Color	Red
Operation Mode	Manual

7. WARRANTY INFORMATION

KNIPEX tools are manufactured to high-quality standards. For specific warranty details, please refer to the warranty documentation included with your purchase or visit the official KNIPEX website. General warranties typically cover defects in materials and workmanship under normal use.

8. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your KNIPEX 83 10 020 pipe wrench, please contact KNIPEX customer service through their official website or the contact information provided in your product packaging. You can also visit the [KNIPEX Store on Amazon](#) for more product information.



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