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### Hoteche 291205

# Hoteche 5-Ton Hydraulic Bearing Puller

Model: 291205 User Manual

## 1. INTRODUCTION

This manual provides instructions for the safe and effective operation, maintenance, and troubleshooting of the Hoteche 5-Ton Hydraulic Bearing Puller, Model 291205. This self-contained hydraulic tool is designed for the removal of stubborn bearings, gears, and pulleys in automotive, truck, and industrial applications. Please read this manual thoroughly before use to ensure proper handling and to prevent injury or damage to the tool or workpiece.



*Image 1.1: The Hoteche 5-Ton Hydraulic Bearing Puller assembled with three jaws, shown alongside its protective carrying case.*

## 2. SAFETY INFORMATION

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Always prioritize safety when operating hydraulic tools. Failure to follow these safety guidelines may result in serious injury or property damage.

- **Read the Manual:** Understand all instructions and warnings before operating the puller.
- **Personal Protective Equipment (PPE):** Always wear safety glasses, gloves, and appropriate work attire.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions.
- **Inspect Tool:** Before each use, inspect the puller for any signs of damage, leaks, or wear. Do not use if damaged.
- **Secure Workpiece:** Ensure the component to be pulled is stable and securely mounted.
- **Correct Application:** Use the puller only for its intended purpose. Do not exceed the 5-ton capacity.
- **Controlled Force:** Apply force gradually and evenly. Avoid sudden impacts or excessive force.
- **Maintain Balance:** Keep proper footing and balance at all times.
- **Children and Bystanders:** Keep children and bystanders away from the work area.
- **Storage:** Store the puller in its case in a dry, secure location away from moisture and extreme temperatures.

## 3. PRODUCT COMPONENTS

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The Hoteche 5-Ton Hydraulic Bearing Puller includes the following main components:

- Pump Body (Hydraulic Cylinder)
- Operating Handle
- Puller Jaws (typically 3 included, 2-jaw configuration possible)
- High-Strength Bolts (for attaching jaws)
- Pulling Tab
- Pull Ring (360° rotating)

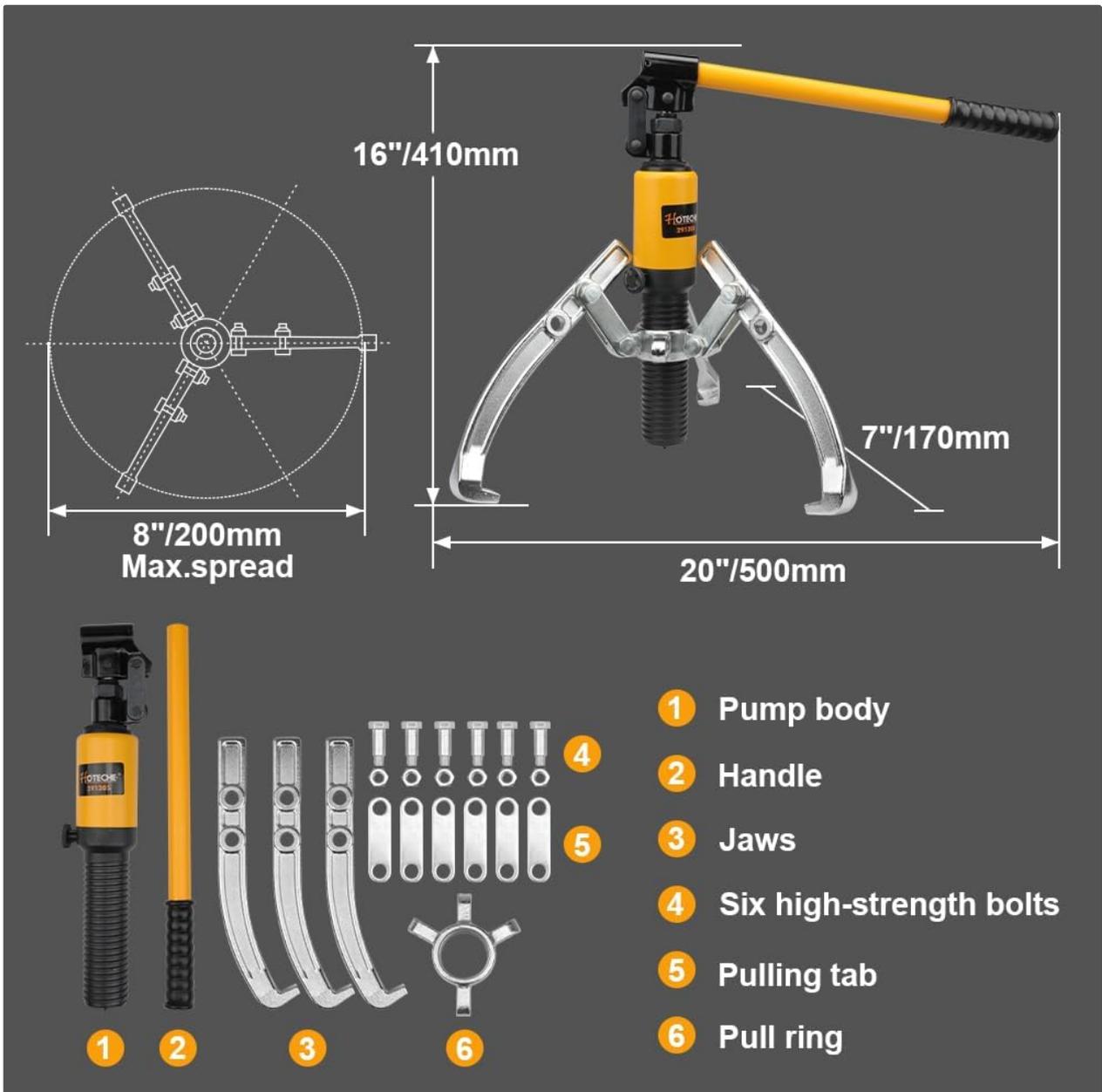


Image 3.1: Diagram illustrating the dimensions and labeled components of the Hoteche 5-Ton Hydraulic Bearing Puller.

# INDUSTRIAL-GRADE THICKENED STEEL



Image 3.2: Detailed views highlighting the industrial-grade construction, including high-hardness solid jaws, a high-temperature quenched screw rod, a non-slip extended handle, and a 360° rotating pull ring.

## 4. SETUP AND ASSEMBLY

The puller can be configured with either two or three jaws depending on the application and the component being removed.

### 4.1. Selecting Jaw Configuration

- **Two-Jaw Configuration:** Suitable for diagonal pulling of smaller bearings or components where space is limited. Provides quick setup.
- **Three-Jaw Configuration:** Recommended for larger components, providing a stable triangular grip for secure and even pulling force.

### 4.2. Attaching Jaws

1. Select the desired number of jaws (two or three).
2. Align the holes on the jaws with the corresponding holes on the puller's main body.

- Securely fasten each jaw using the provided high-strength bolts. Ensure all bolts are tightened evenly and firmly.



Image 4.1: Illustration of how to install the puller jaws for both two-jaw (diagonal installation) and three-jaw (stable triangular installation) configurations.

## 5. OPERATING INSTRUCTIONS

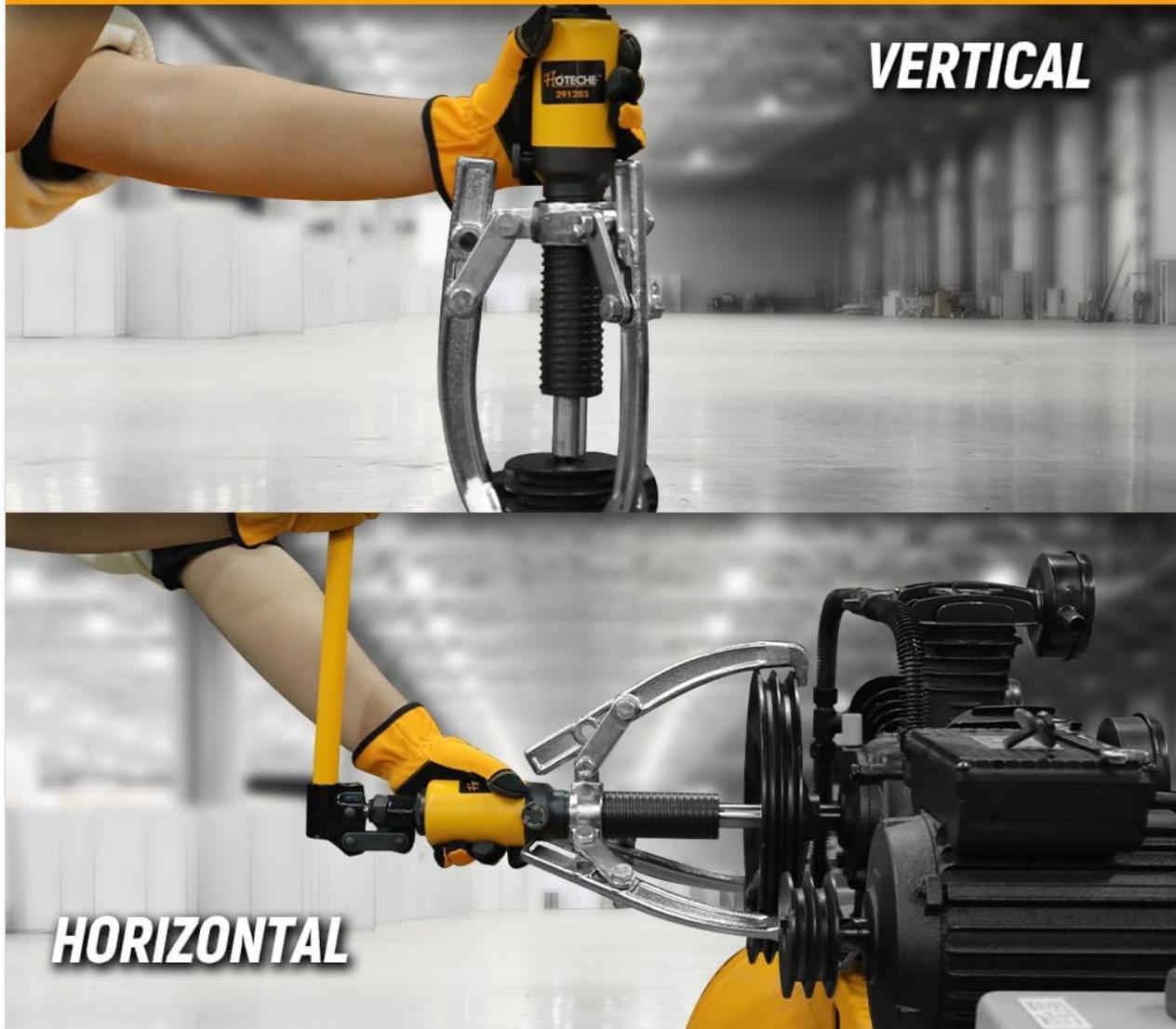
Follow these steps for safe and effective operation of the hydraulic bearing puller.

### 5.1. Preparation

- Ensure the workpiece is clean and free of debris.
- Verify that the oil return switch on the hydraulic cylinder is in the 'OFF' (closed) position before applying pressure.

# BIDIRECTIONAL OPERATION

Flexible gripping of components in various positions



*Image 5.1: Close-up views of the integrated cast oil cylinder, showing the oil return switch and the thickened piston rod with its high-sealing rubber ring.*

## 5.2. Positioning the Puller

1. Place the puller jaws around the component to be removed, ensuring a firm and even grip.
2. Center the puller's ram against the shaft or center point of the component.
3. The puller can be operated in both vertical and horizontal orientations, allowing flexible gripping in various positions.

# ADJUSTABLE JAWS

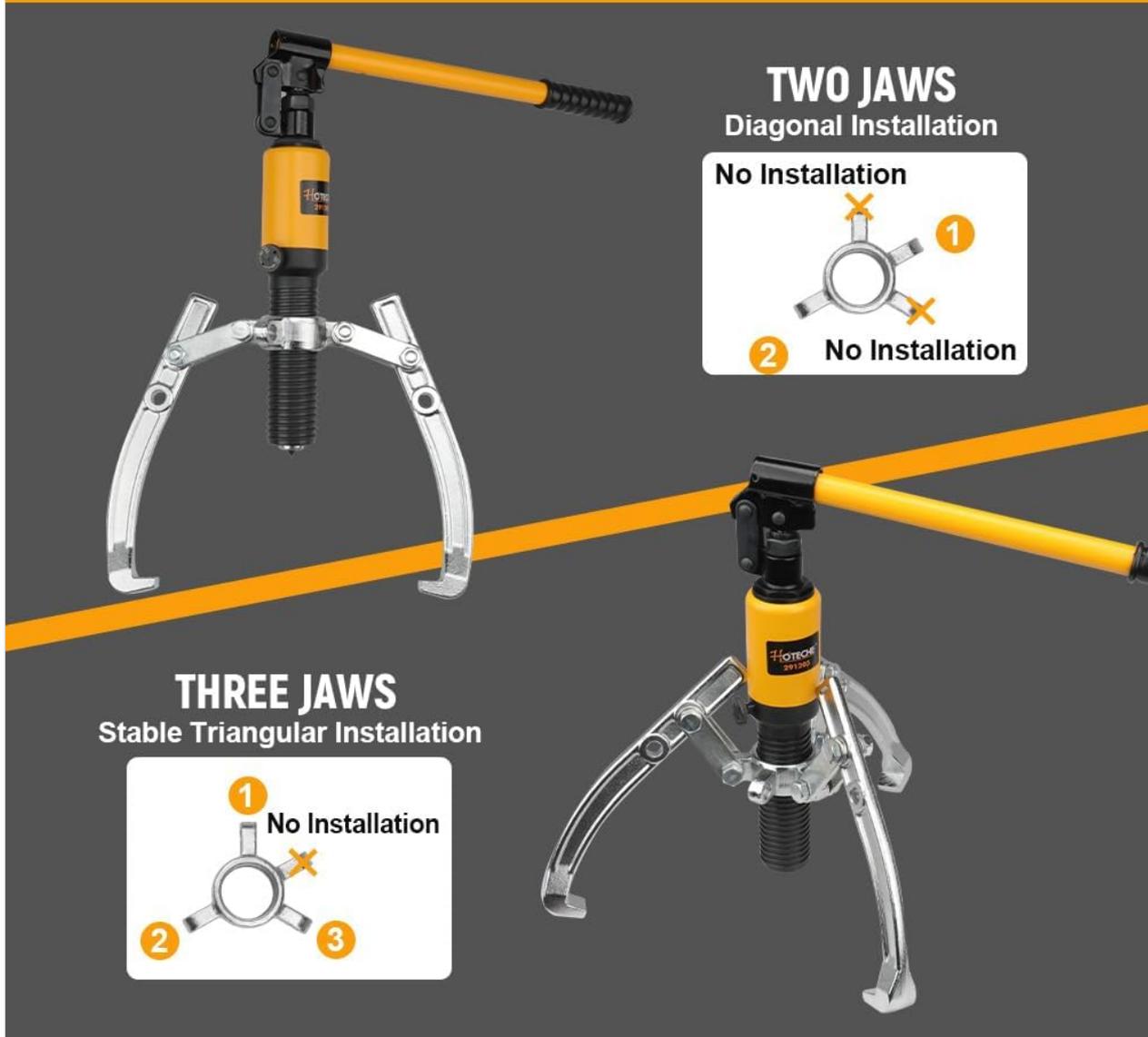


Image 5.2: The puller in use, demonstrating its bidirectional operation for both vertical and horizontal applications.

## 5.3. Applying Hydraulic Force

1. Once the puller is securely positioned, insert the operating handle into the pump body.
2. Pump the handle slowly and steadily to extend the hydraulic ram. Observe the component for movement.
3. Continue pumping until the component is safely removed. Avoid rapid or jerky movements.

## 5.4. Releasing Pressure

1. Once the component is removed, slowly turn the oil return switch to the 'ON' (open) position.
2. The hydraulic ram will retract, releasing the pressure.
3. Remove the puller from the workpiece.

## 5.5. Applications

The Hoteche 5-Ton Hydraulic Bearing Puller is suitable for a wide range of tasks, including:

- Vehicle repair (e.g., brake discs, wheel bearings)

- Gear removal
- Pulley removal
- General industrial maintenance

## WIDE APPLICATION



Image 5.3: Examples of the puller's wide application in vehicle repair, gear removal, and general maintenance tasks.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your hydraulic puller.

- **Cleaning:** After each use, wipe down the puller with a clean cloth to remove dirt, grease, and debris.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts and threads to prevent rust and ensure smooth operation.
- **Inspection:** Regularly check for signs of wear, cracks, or damage to the jaws, bolts, hydraulic cylinder, and seals.
- **Hydraulic Fluid:** While the system is self-contained, monitor for any signs of hydraulic fluid leaks. If a leak is detected, discontinue use and seek professional repair.

- **Storage:** Store the puller in its original carrying case in a dry, cool place to protect it from environmental elements.

## 7. TROUBLESHOOTING

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If you encounter issues with your hydraulic bearing puller, refer to the following common problems and solutions:

- **Puller Not Generating Force:**
  - Ensure the oil return switch is fully closed ('OFF' position).
  - Check for hydraulic fluid leaks.
  - Verify that the jaws are securely gripping the component.
- **Ram Not Retracting:**
  - Ensure the oil return switch is fully open ('ON' position).
  - Check for any mechanical obstructions.
- **Jaws Slipping:**
  - Ensure the jaws are properly seated and gripping the component firmly.
  - Consider using the three-jaw configuration for a more stable grip if currently using two jaws.
  - Clean any grease or oil from the gripping surfaces of the jaws and the component.

For issues not resolved by these steps, contact customer support.

## 8. SPECIFICATIONS

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| Feature                | Specification               |
|------------------------|-----------------------------|
| Brand                  | Hoteche                     |
| Model Number           | 291205                      |
| Pulling Force Capacity | 5 Tons (10,000 lbs)         |
| Maximum Spread         | 8 inches (200 mm)           |
| Maximum Reach          | 140 mm (approx. 5.5 inches) |
| Hydraulic Ram Stroke   | 50 mm (approx. 2 inches)    |
| Jaw Configurations     | 2-jaw or 3-jaw compatible   |
| Item Weight            | 15.97 pounds (7.24 kg)      |
| Package Dimensions     | 17.04 x 9.8 x 3.9 inches    |
| Material               | High-strength steel         |

## 9. WARRANTY INFORMATION

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For specific warranty terms and conditions, please refer to the documentation included with your purchase or

contact Hoteche customer support directly. Warranty coverage typically applies to manufacturing defects and may vary based on region and retailer.

## **10. CUSTOMER SUPPORT**

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If you require assistance, have questions about your Hoteche 5-Ton Hydraulic Bearing Puller, or need to report a defect, please contact Hoteche customer support through their official website or the retailer from whom the product was purchased. Please have your model number (291205) and purchase information ready when contacting support.