

Huanyu YP-24

Huanyu YP-24 Hydraulic Nut Splitter Instruction Manual

Model: YP-24

1. INTRODUCTION

The Huanyu YP-24 Hydraulic Nut Splitter is a robust tool designed for efficiently cutting and removing rusted, seized, or otherwise unrotatable nuts. It provides a powerful 10-ton maximum output force, making it suitable for various industrial and maintenance applications. This manual provides essential information for the safe and effective operation, setup, and maintenance of your hydraulic nut splitter.



APPLICATION SCENES

*Widely used in various industries.
Easily break rusty nut !*





POWER INDUSTRY



SHIPBUILDING INDUSTRY



RAILWAY MAINTENANCE



FACTORY MAINTENANCE

Figure 1: The Huanyu YP-24 Hydraulic Nut Splitter is widely used in power, shipbuilding, railway, and factory maintenance for breaking rusty nuts.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating this tool. Failure to do so may result in serious injury or property damage.

- **Personal Protective Equipment:** Always wear appropriate personal protective equipment, including safety glasses, gloves, and sturdy footwear, when operating the nut splitter.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions. Keep bystanders away from the operating area.
- **Nut Material:** This tool is designed for ordinary nuts. **DO NOT** attempt to cut high-strength, heat-treated material nuts (e.g., nuts with a hardness rating above 4.8). Doing so can damage the blade and the tool, and may cause injury.
- **Tool Condition:** Before each use, inspect the tool for any signs of damage, leaks, or wear. Do not use a damaged tool.

- **Proper Use:** Use the tool only for its intended purpose of splitting nuts. Do not modify the tool or use it for tasks it was not designed for.
- **Hydraulic Fluid:** Handle hydraulic fluid with care. In case of skin contact, wash thoroughly with soap and water.

3. PRODUCT COMPONENTS

Familiarize yourself with the main components of your Huanyu YP-24 Hydraulic Nut Splitter:

- **Hydraulic Body:** The main housing containing the hydraulic mechanism.
- **Cutting Head:** The part that houses the cutting blade and engages the nut. Made of 40CR chrome steel for durability.
- **Cutting Blades:** Interchangeable blades for different nut sizes.
- **Pressure Relief Valve:** Controls the hydraulic pressure (ON/OFF knob).
- **Hydraulic Pump Handle:** Used to generate hydraulic pressure.
- **Thickened Insulating Handle:** Provides a comfortable and secure grip.
- **Shockproof Storage Box:** For safe transport and storage of the tool.

40CR CHROME STEEL HEAD

DURABLE & NOT EASY TO DEFORM



SHEAR RANGE: **M16-M24**



SHEAR RANGE: **M8-M14**

HALF HEXAGON SHAPE

BETTER FIT THE NUT



Figure 2: Overview of the Huanyu YP-24 Hydraulic Nut Splitter, showing the 40CR chrome steel head and interchangeable blades for M8-M14 and M16-M24 nuts.



Figure 3: Close-up of the tool's fine workmanship, highlighting the thickened plunger for wear resistance and the lengthened, enlarged oil cylinder for good sealing and no oil leakage. The pressure relief valve is also visible.

4. SPECIFICATIONS

Feature	Specification
Model	YP-24
Cutting Range	M8-M14 / M16-M24
Max Output Force	10 Tons
Stroke	20 mm
Head Material	40CR Chrome Steel

Feature	Specification
Overall Length	Approximately 17.71 inches (450 mm)
Front End Thickness	0.6 inches (15.24 mm)
Edge Thickness	0.4 inches (10.16 mm)
Drive Style	Splitter
Color	Black / Yellow

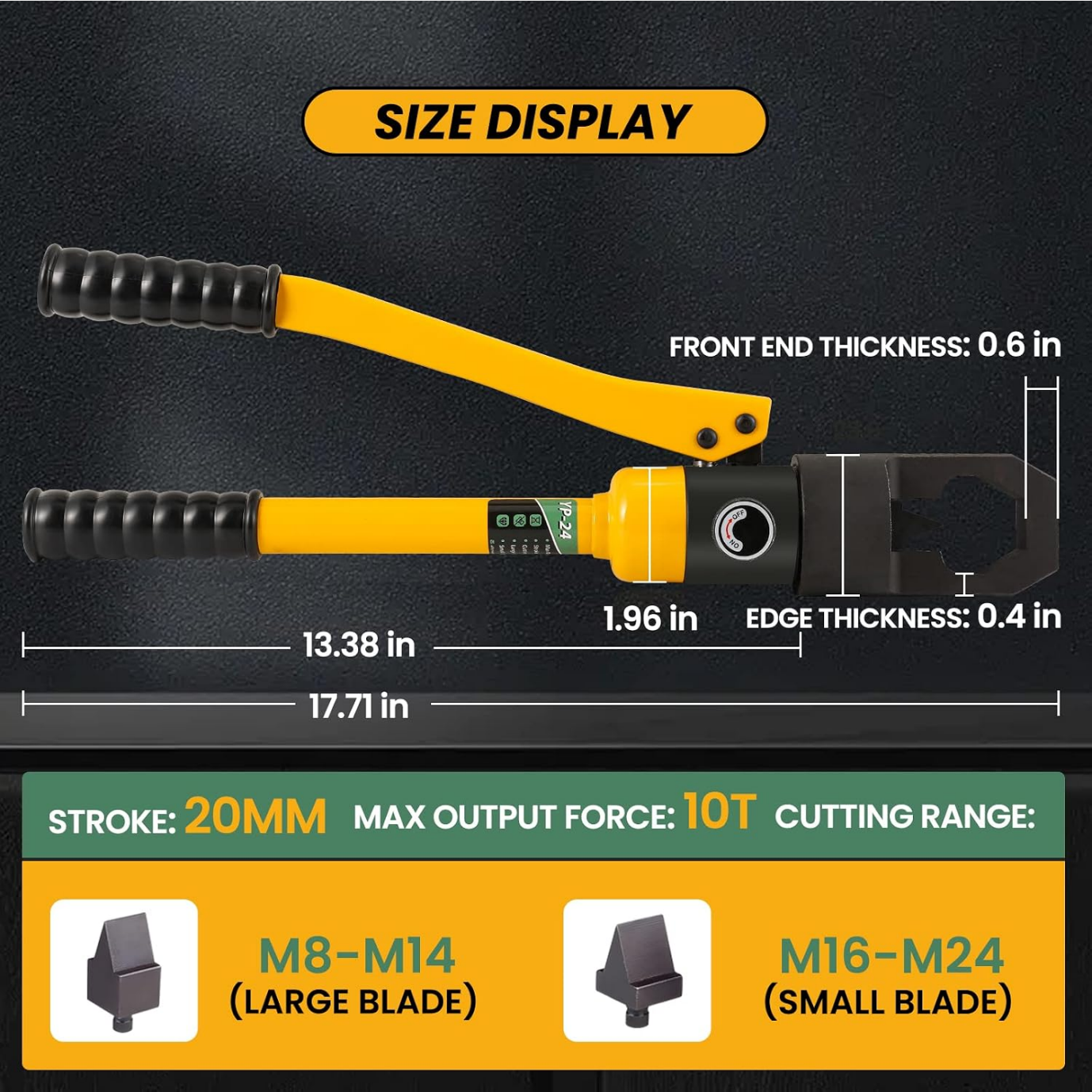


Figure 4: Size display and key specifications, including stroke, max output force, and cutting ranges for M8-M14 (large blade) and M16-M24 (small blade).

5. SETUP

1. **Unpack the Tool:** Carefully remove the hydraulic nut splitter and its accessories from the shockproof storage box.
2. **Inspect for Damage:** Before first use, thoroughly inspect the tool for any signs of shipping damage or manufacturing defects. If any damage is found, do not use the tool and contact customer support.
3. **Select Appropriate Blade:** Choose the correct cutting blade (M8-M14 or M16-M24) based on the size of the nut you intend to split. Ensure the blade is securely installed in the cutting head.
4. **Familiarize with Controls:** Locate the pressure relief valve (ON/OFF knob) and understand its function before proceeding.

6. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of the hydraulic nut splitter:

1. **Prepare the Nut:** Ensure the nut to be split is accessible and clean from excessive debris. Confirm it is not a high-strength, heat-treated nut.
2. **Position the Tool:** Place the cutting head over the nut, ensuring the blade is properly aligned with one of the nut's flats. The half-hexagon shape of the head is designed for a better fit.
3. **Engage Pressure:** Rotate the pressure relief valve knob to the "ON" position (clockwise) to close the valve and allow pressure to build.
4. **Apply Force:** Pump the hydraulic handle repeatedly to build pressure. The blade will advance and begin to split the nut. Continue pumping until the nut is split. You may need to reposition the tool and split the nut in multiple places for easier removal, especially for larger or heavily rusted nuts.
5. **Release Pressure:** Once the nut is split, rotate the pressure relief valve knob to the "OFF" position (counter-clockwise) to release the hydraulic pressure. The blade will retract.
6. **Remove Tool:** Carefully remove the nut splitter from the split nut.

EASY TO OPERATE



EASILY BREAK NUT!

PRESSURIZATION

Rotate in **(ON)** direction



PRESSURE RELIEF

Rotate in **(OFF)** direction

Figure 5: Visual guide for operating the pressure relief valve. Rotate in the "ON" direction for pressurization and in the "OFF" direction for pressure relief.

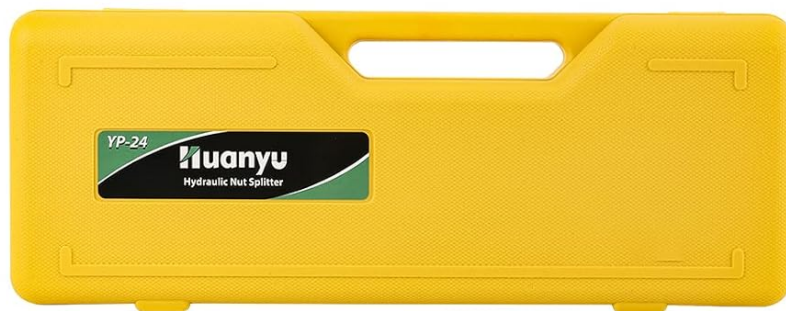
7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your hydraulic nut splitter:

- **Cleaning:** After each use, wipe down the tool with a clean cloth to remove dirt, grease, and debris.
- **Blade Inspection:** Regularly inspect the cutting blades for wear, dullness, or damage. Replace blades as needed to maintain cutting efficiency.
- **Hydraulic System:** The double oil pump core features a double sealing ring to prevent oil leakage. Periodically check for any signs of oil leakage. If leakage occurs, discontinue use and seek professional service.
- **Lubrication:** Keep moving parts lightly lubricated as recommended by general hydraulic tool maintenance practices.
- **Storage:** Store the tool in its shockproof storage box in a dry, clean environment, away from direct sunlight and extreme temperatures.

THICKENED INSULATING HANDLE

Comfortable Grip & More Labor-saving



**SHOCKPROOF
STORAGE BOX**

**Humanized Design ●
Easy to Carry ●**

Figure 6: The Huanyu YP-24 Hydraulic Nut Splitter features a thickened insulating handle for comfort and comes with a shockproof storage box for easy transport and protection.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not build pressure	Pressure relief valve is open (OFF position)	Rotate the pressure relief valve to the "ON" position.
Blade does not advance or retract fully	Low hydraulic fluid level or air in the system; damaged seals	Check for oil leaks. If persistent, contact service.
Nut is not splitting effectively	Incorrect blade size; dull blade; nut is high-strength material	Ensure correct blade is used. Replace dull blades. Do not attempt to cut high-strength nuts.

Problem	Possible Cause	Solution
Oil leakage observed	Damaged sealing rings or hydraulic components	Discontinue use immediately and seek professional repair.

9. WARRANTY AND SUPPORT

Huanyu products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your purchase or contact your retailer. For technical support, spare parts, or service inquiries, please contact Huanyu customer service through their official channels.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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