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Model: DS-YGJLBS8PCS

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1. PRODUCT OVERVIEW

The DISEN DS-YGJLBS8PCS Flare Nut Ratcheting Wrench Set is designed for working with fasteners on fuel, brake, and hydraulic lines. This 8-piece metric set features wrenches made from chrome vanadium steel, offering durability and strength. Each wrench includes a 72-tooth ratcheting mechanism for efficient use in confined spaces and a 15° offset head for improved access.



Image 1.1: The DISEN 8-Piece Flare Nut Ratcheting Wrench Set in use, demonstrating its application on an engine component.

Key Features:

- **Premium Material:** Constructed from high-quality chrome vanadium steel, heat-treated for maximum strength and durability. Features a corrosion and rust-resistant chrome plating finish.
- **72-Tooth Ratchet Design:** The high-density 72-tooth gear mechanism provides an ultra-fine 5° swing arc, allowing for efficient operation in tight spaces with minimal handle movement.
- **Metric Sizes:** Includes 8mm, 9mm, 10mm, 12mm, 13mm, 14mm, 15mm, and 17mm wrenches. Sizes are clearly stamped on both sides of the handle for easy identification.
- **Tight Grip, 15° Offset:** Designed to grip fasteners on five sides, reducing slippage and rounding compared to traditional wrenches. The 15° offset head provides knuckle clearance and improves access in restricted areas.
- **Organizer Pouch:** Comes with a durable roll-up pouch for convenient storage and transport. The pouch has printed labels for each wrench size.
- **Extra PTFE Tape:** Includes PTFE tape for sealing threaded connections, preventing leaks in water, oil, and gas lines.

8 PCS METRIC SIZE

METRIC / MM	8mm	9mm	10mm	12mm	13mm	14mm	15mm	17mm
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Image 1.2: The complete set of 8 metric flare nut ratcheting wrenches, showing their respective sizes from 8mm to 17mm.

2. SETUP AND PREPARATION

Before using your DISEN flare nut wrench set, ensure all components are present and in good condition. The wrenches are pre-assembled and ready for immediate use.

Unpacking and Storage:

1. Carefully unroll the organizer pouch to access the wrenches.
2. Verify that all 8 wrenches (8mm, 9mm, 10mm, 12mm, 13mm, 14mm, 15mm, 17mm) are present.
3. Inspect each wrench for any signs of damage from shipping. If any damage is found, contact customer support.
4. After use, clean the wrenches and return them to their designated slots in the roll-up pouch for organized storage and easy transport.



Image 2.1: The DISEN flare nut wrench set neatly organized within its fabric roll-up pouch, ready for storage or transport.

3. OPERATING INSTRUCTIONS

The DISEN flare nut ratcheting wrenches are designed for precise and efficient tightening or loosening of fasteners on various lines, such as brake, fuel, and hydraulic systems.

General Usage:

1. **Select the Correct Size:** Identify the appropriate metric wrench size (8mm, 9mm, 10mm, 12mm, 13mm, 14mm, 15mm, or 17mm) that matches the fastener. The sizes are stamped on the wrench handles.
2. **Position the Wrench:** Place the open end of the flare nut wrench over the line and onto the fastener. Ensure the wrench jaws fully engage the fastener's flats to prevent rounding. The 15° offset head provides better access in tight areas.
3. **Engage the Ratchet:** The ratcheting mechanism allows for continuous turning without removing the wrench from the fastener. Apply force in the desired direction (tightening or loosening). The 72-tooth design requires only a 5° swing arc, making it effective in confined spaces.

4. **Apply PTFE Tape (if applicable):** For sealing threaded connections, wrap the included PTFE tape clockwise around the male threads of the pipe or fitting before assembly. Ensure sufficient overlap for an effective seal.
5. **Tighten/Loosen:** Turn the wrench until the fastener is adequately tightened or loosened. Avoid over-tightening, which can damage fasteners or lines.

CRV—PREMIUM QUALITY STEEL FOR WRENCH



Mirror Chrome Plated for Anti Corrosion



Vanadium Steel Heat Treated Chrome



ANSI Standart & HRC 58

	FEATURE	IMPURITY CONTROL	TENSILE STRENGTH	HRC	HIGH-TEMPERATURE RESISTANCE
CRV STEEL	High strength and toughness	Low S/P (<0.025%)	850-1000MPa	52-58	300°C - 400°C
CARBON STEEL	Prone to wear and deformation	High S/P (≤0.05%)	550-700MPa	20-30	< 250°C

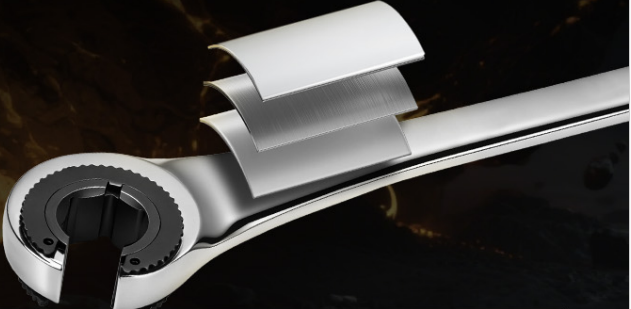


Image 3.1: Examples of common applications for the DISEN flare nut wrench, highlighting its versatility in various repair tasks.

Ratcheting Mechanism:

The 72-tooth ratcheting mechanism allows for quick and efficient work. To change the direction of the ratchet, simply flip the wrench over. The fine tooth design minimizes backdrag and provides smooth operation.

PRECISION FIT, UNBEATABLE SWING

The 72-tooth design allows a tighter 5° swing angle, making it the ultimate tool for confined spaces and stubborn fasteners.

72
TOOTH

5°
SWING ARC



Image 3.2: A detailed view illustrating the 72-tooth ratcheting mechanism and the minimal 5-degree swing arc, which is crucial for working in confined spaces.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DISEN flare nut ratcheting wrench set.

Cleaning and Storage:

- **Cleaning:** After each use, wipe down the wrenches with a clean, dry cloth to remove any dirt, grease, or debris. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light coat of machine oil to the ratcheting mechanism to ensure smooth operation and prevent rust.
- **Storage:** Store the wrenches in their provided roll-up pouch in a dry environment to prevent corrosion. Avoid storing them in damp or humid conditions.

PTFE Tape Usage:

The included PTFE tape is for single-use applications. Always replace old tape with new tape when reassembling threaded connections to ensure a leak-proof seal.



Image 4.1: Demonstration of applying PTFE tape to a pipe thread, illustrating its use for creating a secure seal.

5. TROUBLESHOOTING

This section addresses common issues you might encounter while using the flare nut wrench set.

Common Issues and Solutions:

- **Wrench Slipping or Rounding Fastener:**
 - Ensure the correct wrench size is selected for the fastener.
 - Confirm the wrench is fully engaged on all flats of the fastener.
 - Avoid using excessive force, especially on corroded or seized fasteners. Consider using penetrating oil first.

- **Ratcheting Mechanism Sticking or Not Engaging:**
 - Clean the ratcheting mechanism to remove any debris.
 - Apply a small amount of light machine oil to the mechanism.
 - If the issue persists, the wrench may be damaged. Contact customer support.
- **Difficulty Accessing Fastener:**
 - Utilize the 15° offset head to maneuver around obstructions.
 - Take advantage of the 5° swing arc of the ratcheting mechanism for minimal movement in tight spaces.

6. SPECIFICATIONS

Feature	Detail
Brand	DISEN
Model Number	DS-YGJLBS8PCS
Set Name	8-Piece Set
Material	Chrome Vanadium Steel
Finish Type	Polished
Head Style	Open End, Ratcheting Flare Nut
Metric Sizes Included	8mm, 9mm, 10mm, 12mm, 13mm, 14mm, 15mm, 17mm
Ratcheting Mechanism	72-Tooth, 5° Swing Arc
Offset Angle	15°
Included Components	8 Wrenches, Roll-up Pouch, PTFE Tape



Image 6.1: A comparison chart detailing the properties of CR-V steel used in the wrenches, including strength, toughness, and heat resistance.

7. WARRANTY AND SUPPORT

DISEN is committed to providing high-quality tools. Each line wrench undergoes strict testing to meet industry standards

for hardness, torque, and surface finish.

Quality Guarantee:

The DISEN flare nut ratcheting wrench set is designed for durability and is expected to last a lifetime with normal use. If you have any questions or encounter issues with your DISEN wrenches, please contact our customer service team. We are dedicated to providing satisfactory customer support.

Contact Information:

For support, please refer to the contact details provided with your purchase or visit the official DISEN website.

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