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DISEN 13PCS Metric

DISEN 13 Pieces Hex Key Allen Wrench Set Metric Size with Ball End Instruction Manual

Model: 13PCS Metric | Brand: DISEN

1. Product Overview

The DISEN 13 Pieces Hex Key Allen Wrench Set is a comprehensive collection of metric-sized hex keys designed for various fastening and loosening tasks. Crafted from high-quality Chrome Vanadium Steel, these wrenches offer exceptional durability and resistance to corrosion. The set features a long-arm design for increased leverage and ball ends for improved access to fasteners at an angle.



Figure 1: DISEN 13-piece Metric Hex Key Allen Wrench Set.

This image displays the complete set of 13 metric hex keys, ranging from 1.27mm to 10mm, neatly organized in their black plastic holder. The holder is marked with "DISEN" and "MM" indicating metric sizing.

2. Key Features

- **Premium Material:** Forged from high-quality heat-treated CR-V steel for great hardness and durability, finished with black oxide for anti-corrosion and rust prevention.
- **Multiple Size Selection:** Includes Metric Sizes: 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 8, 10mm. Each hex key is labeled with its specific size.
- **Long Arm Design:** Provides leverage for stable and strong torque. Chamfered edges and ball head design allow for a 25-degree entry into hard-to-access spaces.
- **Versatile Application:** Suitable for auto repair, DIY projects, and household appliance maintenance.
- **Quality Assurance:** Each allen key is tested to meet industrial standards of hardness and durability.



Figure 2: Chrome Vanadium Steel Construction.

This image illustrates the robust construction of the hex keys, emphasizing the use of CR-V Steel for high strength, high endurance, and heat resistance, with a stated hardness of 58 HRC.



Figure 3: All 13 Metric Sizes Included.

This diagram visually presents all 13 metric hex key sizes included in the set, from 1.27mm to 10mm, showcasing their varying lengths and the ball-end design on the longer arm.

3. Setup and Storage

The DISEN Hex Key Set comes in a convenient folding holder designed for easy organization and access. To use a hex key, simply pivot it out from the holder. When finished, fold it back into its designated slot to keep the set compact and prevent loss.

3.1. Initial Inspection

Upon receiving your hex key set, inspect all 13 pieces for any signs of damage or manufacturing defects. Ensure each key is securely held within its organizer.

3.2. Storage Recommendations

Store the hex key set in a dry environment to prevent rust and corrosion. The compact holder allows for easy storage in a toolbox, drawer, or on a workbench. Keeping the keys clean and free of debris will ensure smooth operation and longevity.

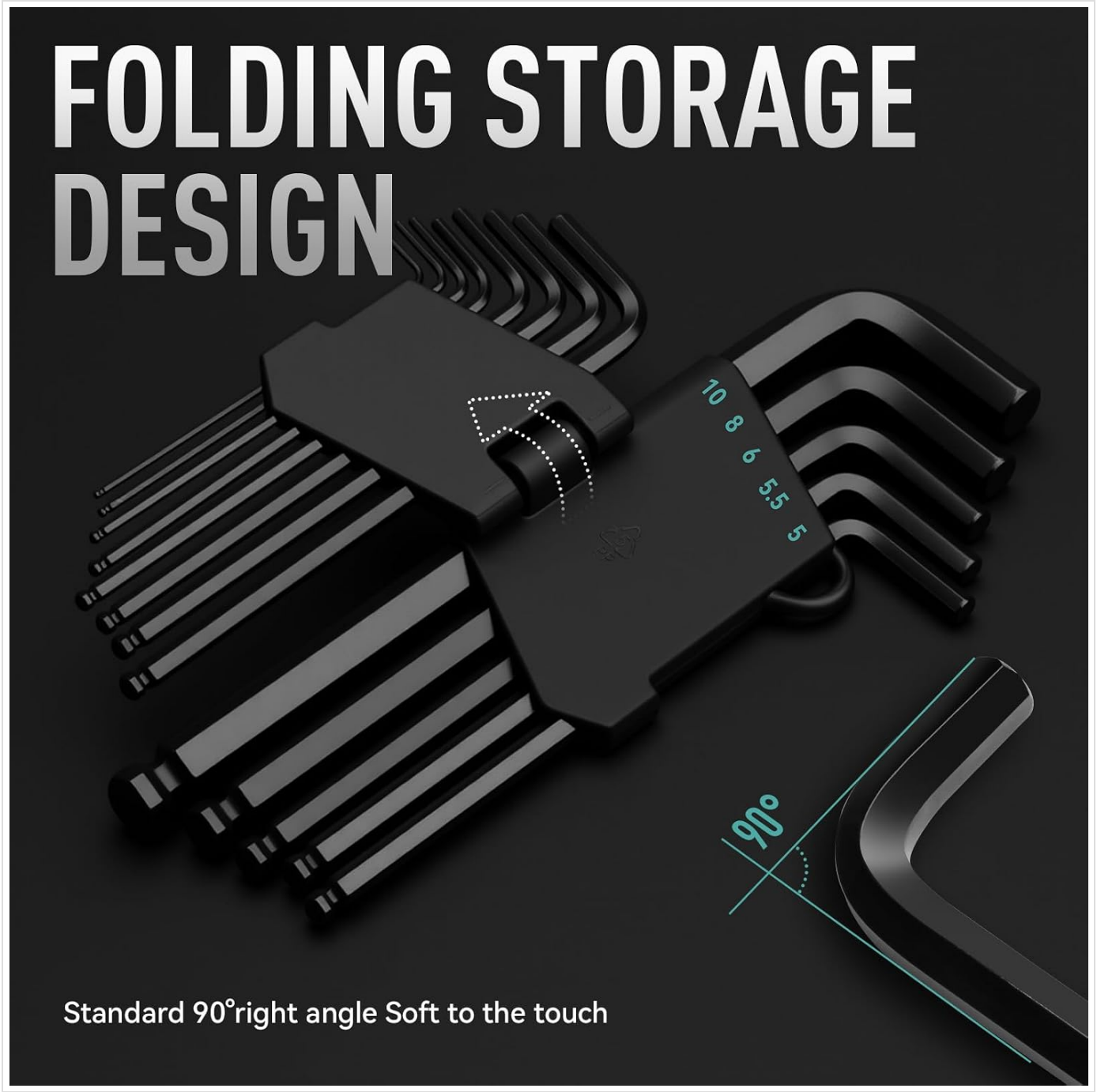


Figure 4: Folding Storage Design.

This image demonstrates the folding design of the hex key holder, which allows for compact storage and easy access to individual keys. It also highlights the standard 90-degree right angle of the keys.

4. Operating Instructions

The DISEN Hex Key Set is designed for tightening and loosening hex-head fasteners. The long-arm design and ball end provide versatility in various applications.

4.1. Selecting the Correct Size

Identify the correct metric size (1.27mm to 10mm) that precisely fits the fastener. Using the wrong size can strip the fastener head or damage the hex key.

4.2. Using the Hex Key

1. Insert the hex key fully into the fastener head.
2. For standard tightening/loosening, use the short arm of the 'L' shape for maximum torque.

3. For fasteners in tight or angled spaces, use the ball end on the long arm. The ball end allows for up to a 25-degree angle of entry, providing flexibility.
4. Apply steady, firm pressure and turn the hex key clockwise to tighten or counter-clockwise to loosen. Avoid sudden jerking motions.

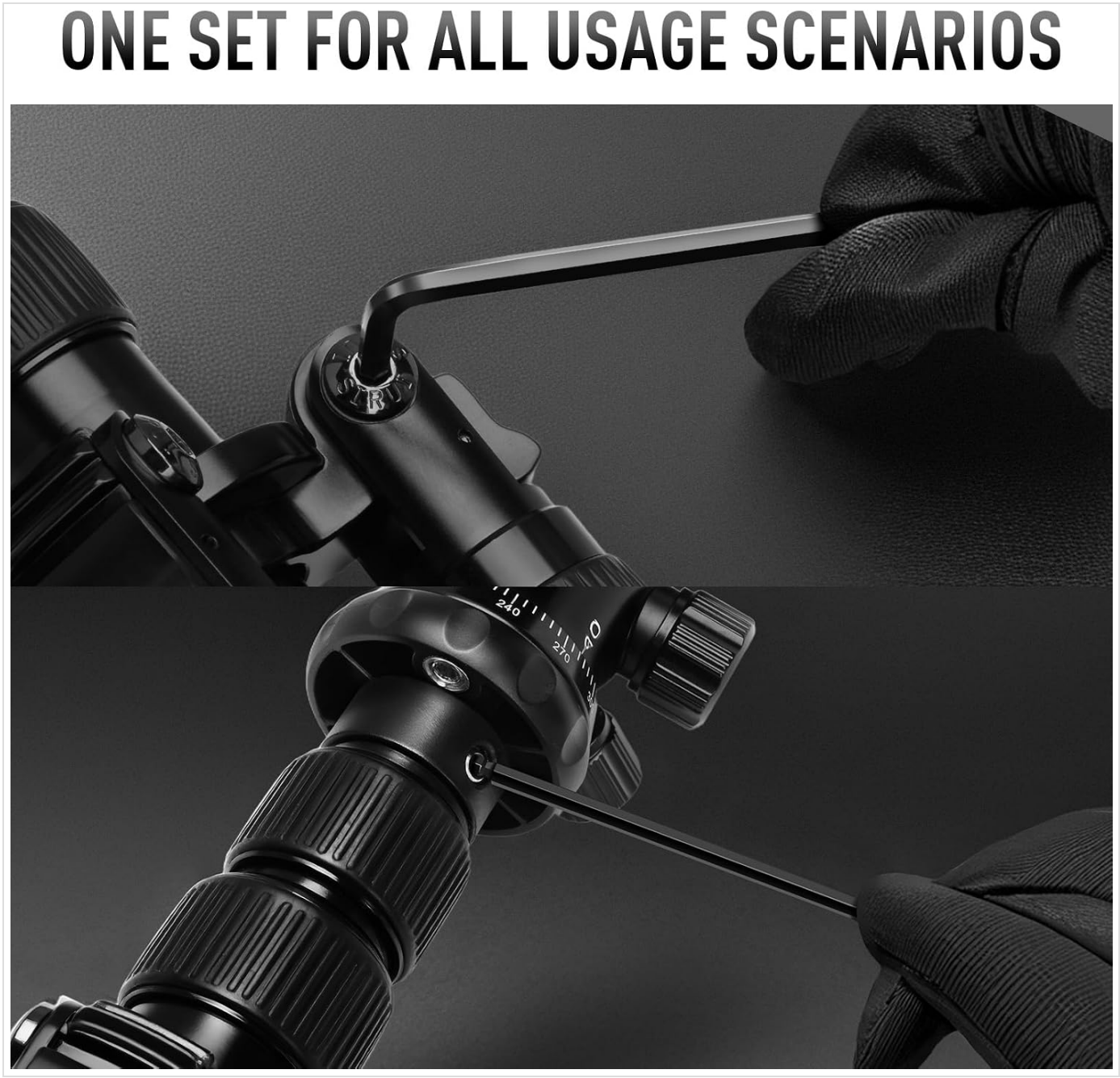


Figure 5: Versatile Usage Scenarios.

This image displays the hex keys in action, demonstrating their utility in various applications, including reaching fasteners in confined or angled spaces, highlighting the effectiveness of the long-arm and ball-end design.

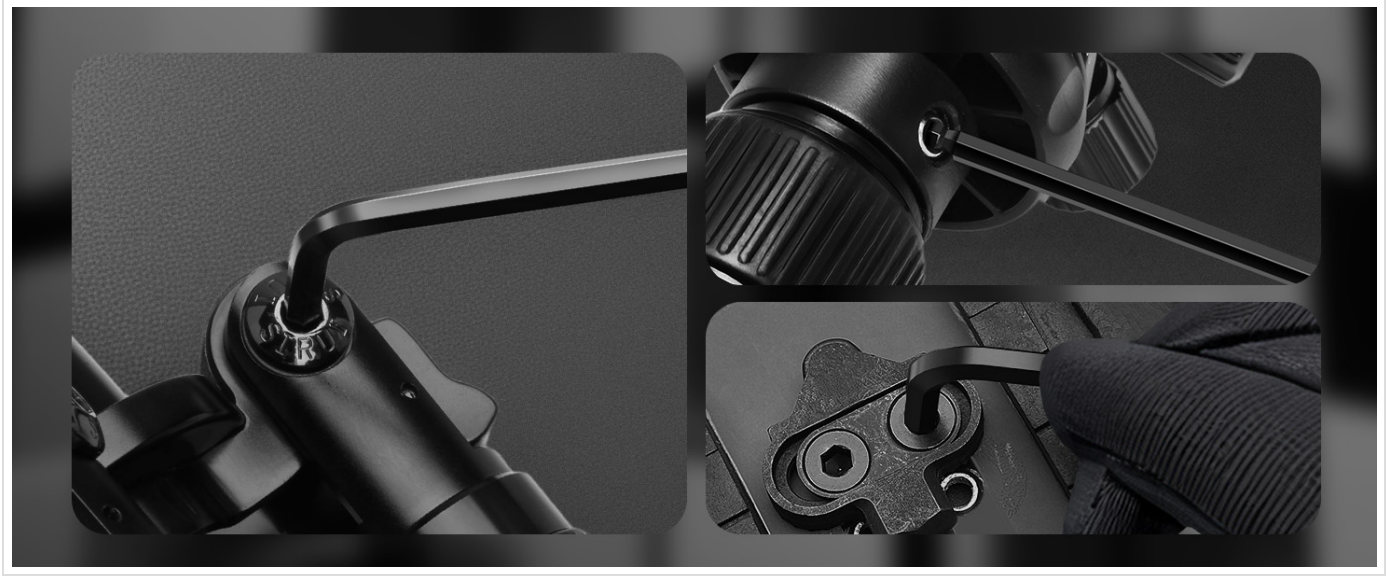


Figure 6: Precision Fit for Screws.

This image illustrates the precision engineering of the hex keys, showing how they fit snugly into various screw types, including hexagon heads and those requiring ball-end access or right-angle leverage.

5. Maintenance and Care

Proper maintenance ensures the longevity and performance of your DISEN Hex Key Set.

- **Cleaning:** After each use, wipe down the hex keys with a clean, dry cloth to remove dirt, grease, or debris.
- **Rust Prevention:** While finished with black oxide for rust prevention, storing the tools in a dry environment is crucial. For long-term storage or in humid conditions, a light coat of rust-inhibiting oil can be applied.
- **Inspection:** Periodically inspect the tips of the hex keys for any signs of wear, rounding, or damage. Damaged keys should be replaced to prevent stripping fasteners.
- **Holder Care:** Keep the plastic holder clean. If it becomes stiff, a small amount of silicone spray can help lubricate the pivot points.

6. Troubleshooting

6.1. Hex Key Not Fitting Fastener

- **Incorrect Size:** Double-check that you are using the correct metric size for the fastener. Even slight differences can prevent proper engagement.
- **Debris in Fastener Head:** Ensure the fastener head is clear of any dirt, paint, or other obstructions that might prevent the hex key from fully seating.
- **Damaged Fastener Head:** If the fastener head appears rounded or stripped, it may require a specialized tool for removal.

6.2. Hex Key Slipping

- **Improper Engagement:** Ensure the hex key is fully inserted into the fastener head.
- **Excessive Torque:** Avoid applying excessive force that could cause the key to slip or round the fastener.
- **Worn Key/Fastener:** If the key or fastener is worn, it may slip. Replace worn tools or fasteners as needed.

7. Specifications

Attribute	Detail
Brand	DISEN
Model	13PCS Metric
Material	Chrome Vanadium Steel (CR-V)
Finish Type	Black Oxide Finish
Head Style	HEX, BALL
Metric Sizes Included	1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 8, 10mm
Item Weight	10.9 Ounces
Package Dimensions	7.44 x 3.27 x 1.22 inches
Country of Origin	China

8. Official Product Videos

The following videos provide additional information and demonstrations of the DISEN Hex Key Allen Wrench Set.

Video: The Must-Have Metric Allen Wrenches for Every Toolbox!

Your browser does not support the video tag.

This video provides an overview of the DISEN Metric Allen Wrench Set, highlighting its features and benefits for various household and professional tasks. It showcases the different sizes and the utility of the ball-end design.

9. Warranty and Support

DISEN is committed to delivering high-quality manual tools. We assure you that every allen key has been tested strictly to meet the industrial standard of hardness and durability. They are designed to last for a lifetime with normal use.

For any questions, concerns, or support needs regarding your DISEN product, please refer to the seller's contact information on the platform where the purchase was made. You can also visit the official DISEN store for more information and assistance.

DISEN Store: Visit the DISEN Store on Amazon

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