

ATuMan RS1

AtuMan 24-in-1 Ratchet Screwdriver Set User Manual

Model: RS1
Brand: ATuMan

1. PRODUCT OVERVIEW

The AtuMan 24-in-1 Ratchet Screwdriver Set is a versatile tool designed for a wide range of repair and DIY tasks. It features a magnetic ratcheting mechanism, a detachable handle for multiple configurations, and 24 precision S2 alloy steel bits. This compact and portable set is ideal for home repairs, electronics, bicycles, and general maintenance.



Figure 1.1: Complete Atuman 24-in-1 Ratchet Screwdriver Set.

Compact and Portable



Figure 1.2: The compact and portable design allows for easy carrying in a pocket or tool bag.

Video 1.1: Official product overview demonstrating the 24-piece ratcheting screwdriver set's features and portability.

2. KEY FEATURES

- **24-in-1 Versatility:** Designed for professional use, home repairs, work tasks, DIY projects, and general maintenance.
- **Efficient Ratchet Mechanism:** Features a 6.2-degree ratchet mechanism and a 58-tooth forward/reverse structure for effortless operation, saving up to 80% of energy.
- **Comprehensive Bit Set:** Includes 24 uniquely shaped S2 alloy steel driver bits: Phillips (PH1, PH2, PH3); Slotted (SL4, SL5, SL6); Torx (T5, T6, T8, T10, T15, T20, T25, T27); and Hexagon (H1.5, H2, H2.5, H3, H4, H5, H6, H6.35, H8).
- **Premium Build Quality:** S2 alloy steel bits undergo continuous heat treatment for superior durability and toughness. The handle is made from hot-forged aluminum alloy with high-precision CNC integrated molding.
- **Multi-purpose Detachable Handle:** The handle can be assembled and detached freely, maximizing mobility in

narrow spaces and offering various configurations (straight, T-handle).

- **Magnetic Bits:** All bits are magnetic for secure attachment and ease of use.

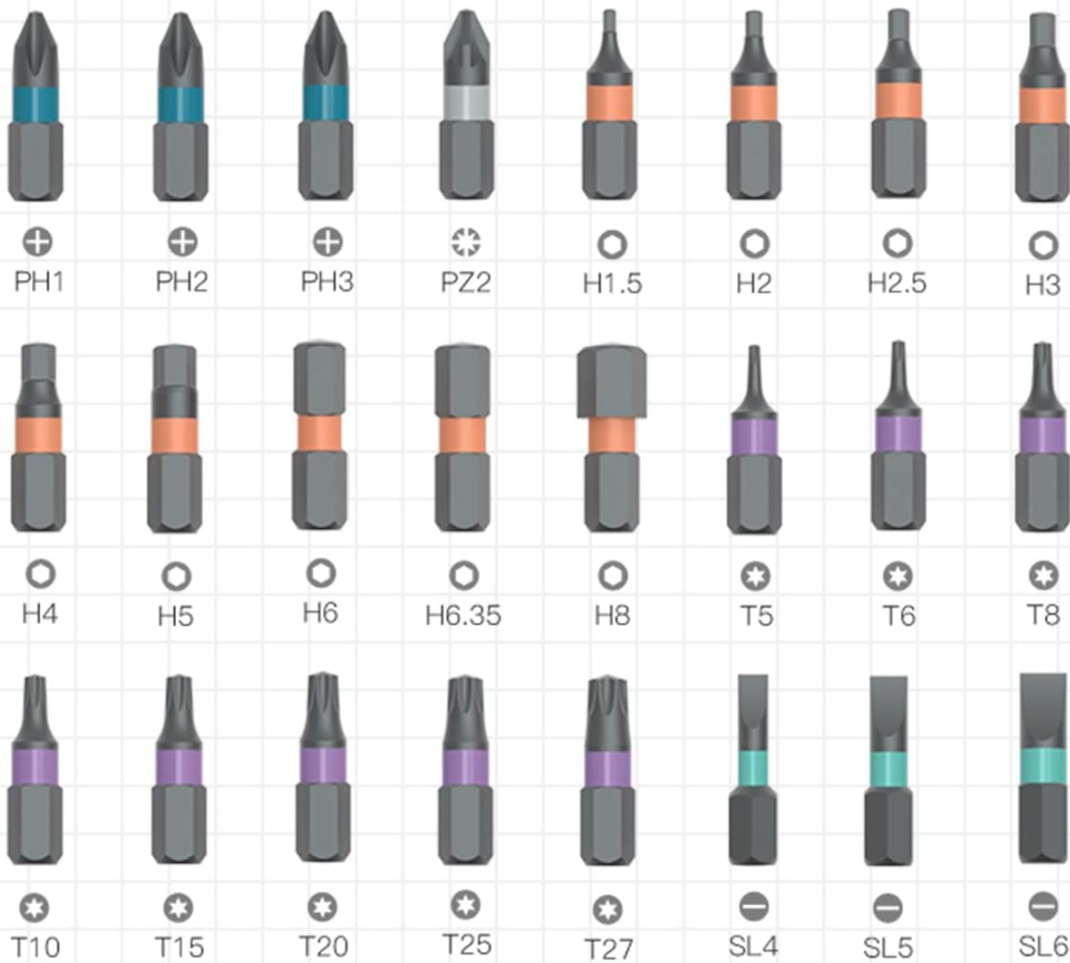
3. PACKAGE CONTENTS

The AtuMan 24-in-1 Ratchet Screwdriver Set includes the following components:

- 1 x Multi-purpose Ratchet Handle (detachable)
- 24 x S2 Alloy Steel Precision Bits (various types and sizes)
- 1 x Compact Storage Case

24 Pcs Premium S2 Cr–Mo Steel Bits

5 Kinds of bit, fit for domestic appliances,
home furniture, automotive, industrial use, DIY etc



[The color order is subject to the actual product]

Figure 3.1: The 24 precision S2 Cr–Mo Steel bits included in the set, categorized by type and size.



Figure 3.2: The main handle and various bits neatly organized within the compact storage case.

4. ASSEMBLY & CONFIGURATION

The multi-purpose handle can be configured in several ways to suit your needs:

1. **Straight Handle Mode:** For standard use, connect the two main handle pieces end-to-end. Insert the desired bit into the magnetic tip.
2. **T-Handle Mode:** For increased leverage, detach one of the handle ends and insert it perpendicularly into the central opening of the main handle. Insert the desired bit into the magnetic tip.
3. **Short Handle Mode:** For tight spaces, use only one of the main handle pieces with a bit inserted directly.

Multi-purpose Ratcheting Handle

assemble and can be detachable freely,
maximize mobility in narrow space



Figure 4.1: Various handle configurations including straight, T-handle, and compact modes for different applications.



Figure 4.2: Demonstration of the handle's ability to transform between screwdriver and ratchet wrench modes.

5. OPERATING INSTRUCTIONS

To operate the AtuMan Ratchet Screwdriver Set:

1. **Select Bit:** Choose the appropriate bit for your screw type from the 24 included bits.
2. **Insert Bit:** Firmly insert the selected bit into the magnetic tip of the handle. The magnetic connection ensures the bit stays securely in place.
3. **Configure Handle:** Assemble the handle into your desired configuration (straight, T-handle, or short) based on the task and available space.
4. **Set Ratchet Direction:** Use the small switch on the central ratcheting mechanism to select the desired direction (clockwise for tightening, counter-clockwise for loosening).

5. **Apply Torque:** Place the bit onto the screw head and apply pressure while rotating the handle. The ratcheting mechanism will allow you to turn the screw without repositioning your hand.



Figure 5.1: The 58-tooth ratcheting gear allows for efficient clockwise and counter-clockwise rotation.

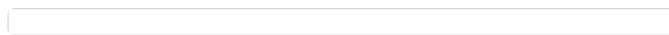


Figure 5.2: The simple switch allows for quick changes in ratcheting direction.



Figure 5.3: Magnetic tips ensure secure and easy attachment of screwdriver bits.

6. APPLICATIONS

This versatile screwdriver set is suitable for a variety of tasks, including but not limited to:

- Assembling and disassembling furniture.

- Repairing electronics such as computers, laptops, and cameras.
- Bicycle maintenance and adjustments.
- General home DIY projects and repairs.
- Working in tight or confined spaces due to its adaptable handle.



Figure 6.1: Examples of the screwdriver set in use for furniture assembly, bicycle repair, and other household tasks.

7. CARE & MAINTENANCE

To ensure the longevity and optimal performance of your AtuMan Ratchet Screwdriver Set:

- **Cleaning:** Wipe down the handle and bits with a clean, dry cloth after each use to remove dirt, grease, or debris.
- **Storage:** Always store the set in its original compact case in a dry environment to prevent rust and damage.
- **Inspection:** Periodically inspect bits for wear or damage. Replace worn bits to maintain optimal performance and prevent damage to fasteners.
- **Lubrication:** The internal ratcheting mechanism is designed for long-term use and typically does not require user lubrication. Avoid disassembling the ratchet head.

8. TROUBLESHOOTING

If you encounter issues with your screwdriver set, consider the following:

- **Bit Slipping:** Ensure the correct bit size and type is used for the fastener. Check if the bit is fully inserted into the magnetic tip. If the bit is worn, replace it.

- **Ratcheting Issue:** Verify the direction switch is fully engaged in either the clockwise or counter-clockwise position. Ensure no debris is obstructing the mechanism.
- **Handle Connection Loose:** Ensure all detachable handle pieces are firmly pushed together until they click or are securely seated.

For persistent issues not covered here, please refer to the support information provided by ATuMan.



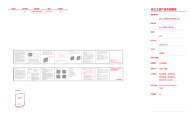

9. SPECIFICATIONS

Brand	ATuMan
Model Name	RS1
Number of Items	1 (Set)
Head Style	Clutch Head
Material	Alloy Steel (S2 for bits)
Color	Gray
Item Dimensions (L x W x H)	3.94 x 1.57 x 6.69 inches
Item Weight	12.6 ounces
Number Of Pieces	24 (bits)
Special Features	24-in-1, Magnetic, Detachable Handle, Ratcheting

10. WARRANTY & SUPPORT

ATuMan is committed to providing high-quality tools. For any product-related inquiries, technical support, or warranty claims, please refer to the official ATuMan website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty services.

For more information about ATuMan and their product range, visit the [ATuMan Store on Amazon](#).

	<p>ATuMan and DUKA Product Overview - Tools and Electronics</p> <p>Explore the range of high-tech, design-focused electronic and power tools from DUKA, and well-designed, high-quality hand tools from ATuMan. Featuring laser rangefinders, temperature and humidity meters, socket testers, and more.</p>
<p>Instructions for use</p> <p>LI1 Laser Line Projection Angle Gauge</p>  <p>Willard is a registered product and must be purchased separately.</p> <p>Product Description</p> <p>The Duke LI1 is a versatile, easy-to-use and versatile angle measuring tool with laser line projection for measuring 2 axis absolute and relative angles of surfaces.</p> <p>P110</p>	<p>LI1 Laser Line Projection Angle Gauge Instructions</p> <p>Comprehensive instructions for the LI1 Laser Line Projection Angle Gauge, covering product description, important notes, product briefing, main display, start-up, shutdown, angle measurement, relative angle measurement, laser operation, bracket installation, bracket use, technical specifications, and safety instructions.</p>
	<p>HF1 Intelligent Multifunctional Formaldehyde Monitor User Manual</p> <p>This document provides instructions and specifications for the HF1 Intelligent Multifunctional Formaldehyde Monitor by Shenzhen ATuMan Precision Machinery Technology Co., Ltd. It covers product features, operation, safety, and technical details.</p>
<p>使用说明书</p> <p>LI1激光线投影角仪</p>  <p>本文件为产品, 请仔细阅读</p> <p>产品介绍</p> <p>杜克LI1激光线投影角仪是一款可以测量任意角度的便携式测量工具, 其功能多样, 操作简便且精度高。为建筑行业提供精准的测量数据, 确保建筑结构的精确度。该仪器具有定位和测量的功能, 主要用于测量相对于水平位置的倾斜度。通过测量平面和垂直面的倾斜度, 可以快速准确地测量位置, 包括测量门框、窗框等。测量精度为±0.1mm/m, 适用于各种建筑、工业、农业等领域。</p> <p>P110</p>	<p>DUKE LI1 Laser Line Projection Angle Gauge User Manual</p> <p>User manual for the DUKE LI1 Laser Line Projection Angle Gauge, detailing its features, operation, technical specifications, and safety instructions. This portable device offers 360° angle measurement for various construction and manufacturing applications.</p>