

[Manuals.plus](#) /

› [Hairich](#) /

› Hairich Digital Torque Wrench HYR-DIGI-38100 User Manual

Hairich HYR-DIGI-38100

Hairich Digital Torque Wrench HYR-DIGI-38100 User Manual

Model: HYR-DIGI-38100

1. INTRODUCTION

Thank you for choosing the Hairich Digital Torque Wrench. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: Hairich Digital Torque Wrench and Carrying Case.

This image displays the Hairich Digital Torque Wrench, featuring a silver shaft, red handle, and a digital display. It is accompanied by a black protective carrying case.

2. SAFETY INFORMATION

Always observe basic safety precautions when using this digital torque wrench to reduce the risk of personal injury or damage to the tool or workpiece.

- **Read the Manual:** Understand all instructions and warnings before operating the tool.
- **Wear Eye Protection:** Always wear ANSI-approved safety goggles.
- **Keep Work Area Clean:** Cluttered work areas and benches invite accidents.
- **Do Not Over-Torque:** Exceeding the wrench's maximum torque capacity can damage the tool and the fastener.
- **Proper Grip:** Maintain a firm grip on the handle during operation.

- **Battery Safety:** Ensure correct battery polarity and dispose of used batteries responsibly.
- **Avoid Moisture:** Do not expose the tool to rain or wet conditions.

3. PRODUCT OVERVIEW AND FEATURES

The Hairich Digital Torque Wrench is designed for precise torque application in various mechanical tasks. Key features include:

- **Accurate Torque Range:** 5-100 FT-LB / 0-135 N.M with an accuracy of $\pm 2\%$. Each wrench includes a calibration certificate.
- **Multiple Measurement Modes:** Five selectable units: kg-cm, kg-m, Nm, in-lb, ft-lb.
- **Buzzer & LED Indicator:** Provides audible and visual alerts at 80% and 100% of the preset torque value.
- **Memory Mode:** Features Track and Peak modes. Stores up to 500 sets of data in Peak mode.
- **Ergonomic Design:** Comfortable grip and reversible ratchet for diverse job requirements.
- **Durable Construction:** Made from Chrome Vanadium Steel with a polished finish.

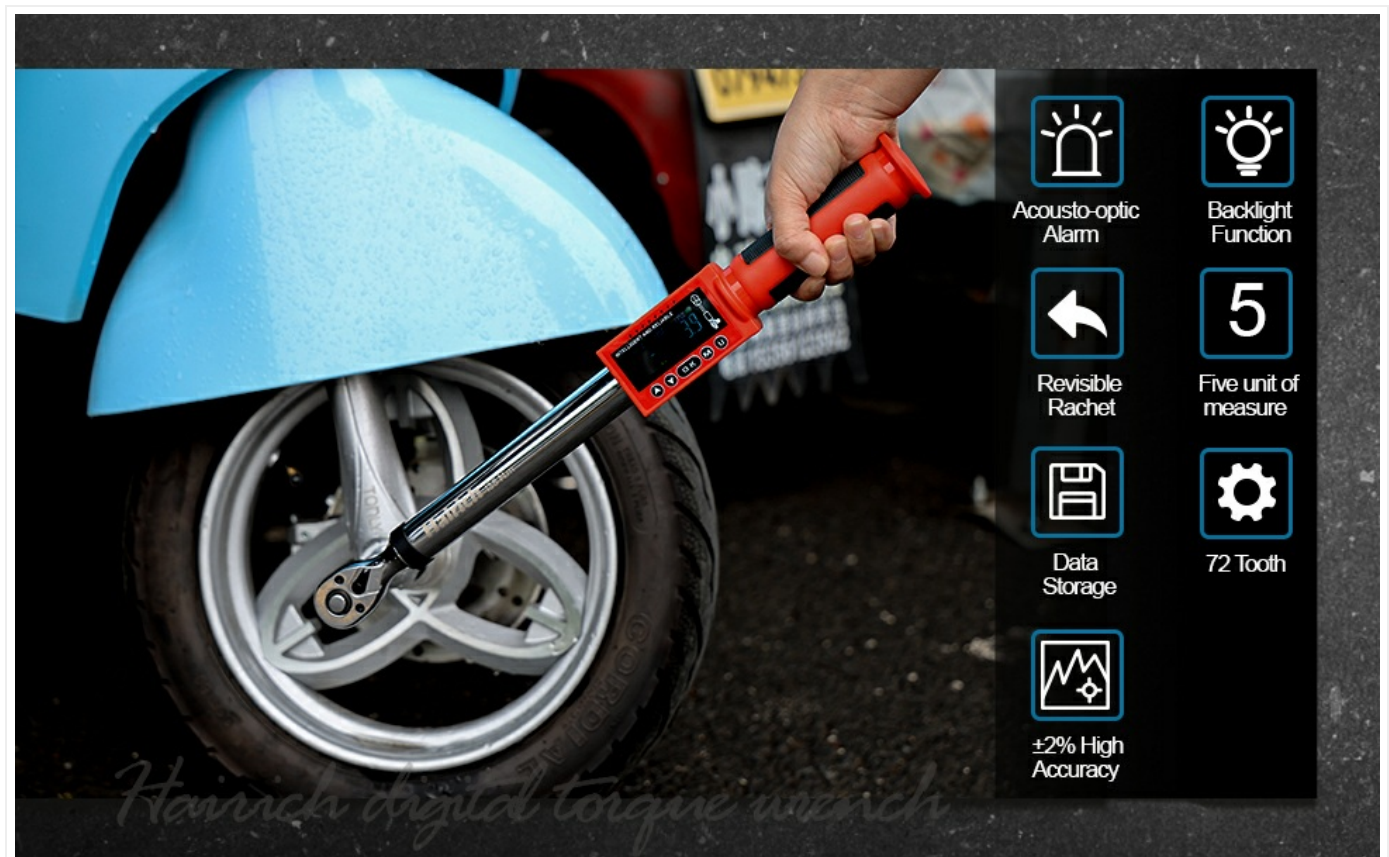


Figure 2: Key Features of the Digital Torque Wrench.

This image highlights the main features of the Hairich Digital Torque Wrench, including acousto-optic alarm, backlight function, reversible ratchet, five units of measure, data storage, 72-tooth mechanism, and $\pm 2\%$ high accuracy.

4. SETUP

4.1 Battery Installation

The Hairich Digital Torque Wrench requires batteries for operation. Ensure you use the correct battery type (Alkaline) and install them with the correct polarity.

1. Locate the battery compartment, typically at the base of the handle.
2. Open the battery cover.
3. Insert the required batteries, observing the polarity markings (+/-).

4. Close the battery cover securely.

4.2 Initial Power On

After battery installation, press the "OK" button to power on the device. The digital display will illuminate, showing the current settings.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on: Press the **OK** button.
- To power off: Press and hold the **OK** button for a few seconds until the display turns off. The wrench may also have an auto-off feature after a period of inactivity.

5.2 Unit Selection

The wrench supports five measurement units. To switch between them:

1. Press the **U** (Unit) button to cycle through the available units: kg-cm, kg-m, Nm, in-lb, ft-lb.
2. The selected unit will be displayed on the screen.

MEASUREMENT UNIT

5 types



Figure 3: Measurement Unit Selection.

This image illustrates the digital display of the torque wrench, showing the five available measurement units: N·m, lbf·ft, lbf·in, lbf·cm, and kgf·m.

5.3 Setting Target Torque

To set your desired torque value:

1. Press the **M** (Mode) button to enter the setting mode (if applicable, or use arrow keys directly).
2. Use the **Up** (▲) and **Down** (▼) arrow buttons to adjust the target torque value.
3. Press **OK** to confirm the setting.

10 GROUP OF PRESET MODES

0~9

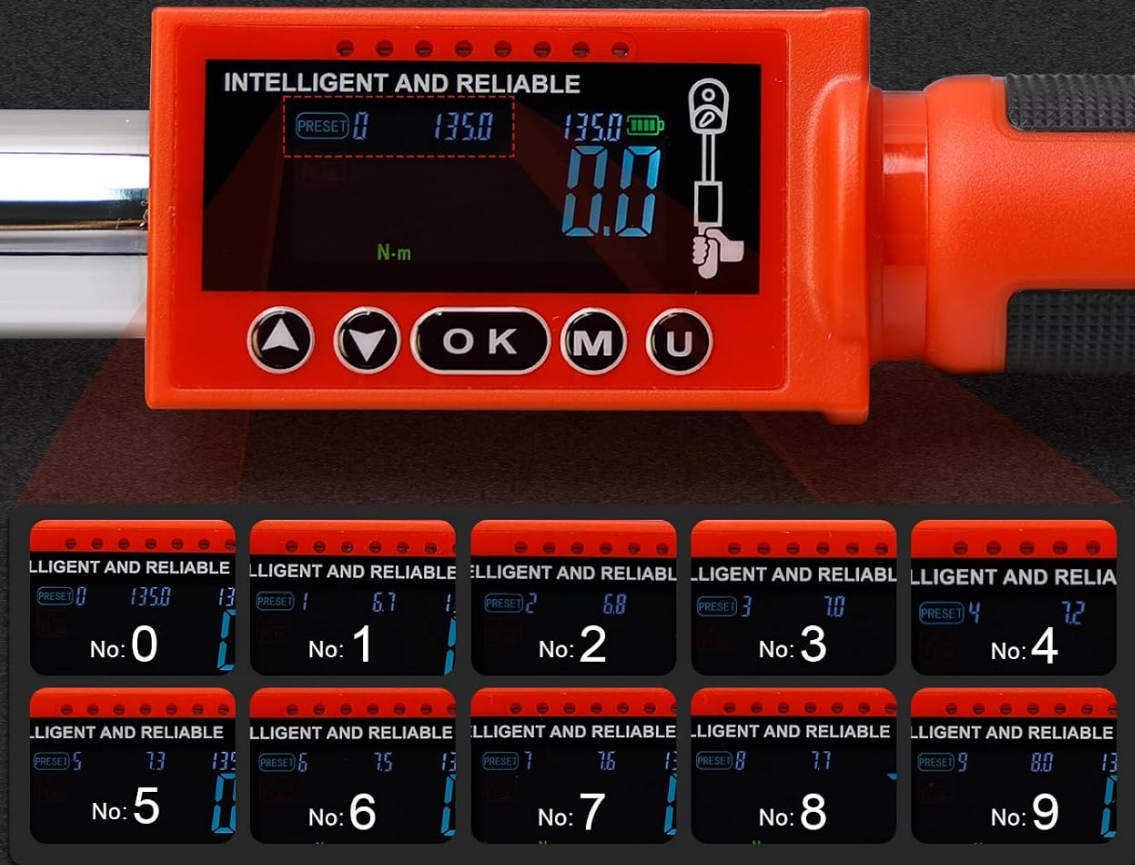


Figure 4: Preset Torque Modes.

This image shows the digital display with "PRESET" and a number, indicating the ability to store and recall up to 10 different preset torque values (0-9).

5.4 Track and Peak Modes

The wrench offers two operational modes:

- **Track Mode:** Displays the real-time torque value as force is applied. Useful for monitoring live torque.
- **Peak Mode:** Records and displays the maximum torque value achieved during an operation. This mode is also used for data storage.

Switch between modes using the **M** (Mode) button.

5.5 Buzzer and LED Indicators

The wrench provides clear feedback during torque application:

- At **80%** of the preset torque: A flashing light and an audible beep will activate.

- At **100%** (or exceeding) of the preset torque: A steady light will illuminate, accompanied by a continuous beep or vibration, indicating the target torque has been reached.



Figure 5: Acousto-Optic Alarm System.

This image demonstrates the visual and audible alarm system of the digital torque wrench. It shows the display changing from green (80% torque) to yellow (90% torque) to red (100% torque), accompanied by corresponding beeping patterns.

5.6 Data Storage

The wrench can store up to 500 sets of torque data in Peak mode. This allows for later review of applied torque values.

- To access stored data: Refer to the specific instructions in the full manual for navigating the data storage menu.
- To clear data: Follow the instructions in the full manual for data management.



Figure 6: Data Storage Functionality.

This image highlights the data storage capability of the Hairich Digital Torque Wrench, indicating it can store 10 sets of data preset modules and 500 sets of usage record query modules.

5.7 Using the Ratchet

The 3/8" drive ratchet head is reversible. To change the direction of the ratchet:

1. Locate the direction switch knob on the ratchet head.
2. Turn the knob to select either clockwise or counter-clockwise operation.

Hairich

DIGITAL TORQUE WRENCH

72T precision ratchet
5 ° professional adjustment angle

Figure 7: 72-Tooth Precision Ratchet.

This image provides a close-up view of the 72-tooth precision ratchet mechanism, emphasizing its 5-degree professional adjustment angle for fine control.

6. MAINTENANCE

6.1 Cleaning

Wipe the wrench clean with a soft, dry cloth after each use. Do not use abrasive cleaners or solvents, as these can damage the display or finish.

6.2 Battery Replacement

When the battery indicator on the display shows low power, replace the batteries promptly to ensure accurate readings. Follow the battery installation steps in Section 4.1.

6.3 Storage

Store the torque wrench in its protective carrying case in a dry, clean environment. If storing for extended periods, remove the batteries to prevent leakage.

6.4 Calibration

While the wrench is designed for long-term accuracy, periodic calibration by a certified service center is recommended to maintain optimal performance, especially after heavy use or impact.

7. TROUBLESHOOTING

- **Wrench does not power on:**
 - Check battery installation and polarity.
 - Replace with new batteries.

- Ensure the "OK" button is pressed firmly.

- **Inaccurate readings:**

- Ensure the correct measurement unit is selected.
- Check battery level; low batteries can affect accuracy.
- Avoid applying torque beyond the wrench's specified range.
- Consider professional calibration if issues persist.

- **Buzzer/LED not working:**

- Check if the feature is enabled in settings (if applicable).
- Ensure batteries are not low.

For issues not covered here, please contact Hairich customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	HYR-DIGI-38100
Drive Size	3/8 inch
Torque Range	5-100 FT-LB / 0-135 N.M
Accuracy	±2%
Measurement Units	kg-cm, kg-m, Nm, in-lb, ft-lb
Material	Chrome Vanadium Steel
Item Length	16.54 Inches
Item Weight	3.1 pounds (1.41 Kilograms)
Power Source	Batteries (Alkaline, included)
Data Storage	Up to 500 sets (Peak mode)
Ratchet Teeth	72T



Figure 8: High Accuracy Feature.

This image visually represents the $\pm 2\%$ accuracy of the digital torque wrench, highlighting the internal electronic components responsible for precise measurements.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Hairich provides a **24-month warranty** for this digital torque wrench. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use.

Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For any product issues, technical assistance, or warranty inquiries, please contact Hairich customer support. You can typically find contact information on the official Hairich website or through your purchase platform.

We are committed to solving any problems you may encounter.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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.

Submit question