

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [HILTI](#) /
- › [Hilti HAT 28 M Anchor Tester Kit User Manual](#)

**HILTI 355338**

# Hilti HAT 28 M Anchor Tester Kit User Manual

Model: 355338

## INTRODUCTION

---

The Hilti HAT 28 M Anchor Tester Kit is a specialized device designed for determining the test load and pull-out resistance of studs and DX fasteners. This compact and user-friendly instrument allows for direct reading of the test load from its display. It is certified by the Technical Inspection Association (VdTÜV) in accordance with conduct sheet 104 for elevator installation systems, ensuring reliability and compliance with industry standards.

This tester is suitable for verifying anchors of various shapes and diameters, as well as existing lifting points within lifting cavities. Its robust yet lightweight aluminum casing ensures durability and ease of transport for both laboratory and on-site testing applications.

## PRODUCT OVERVIEW

---



**Figure 1:** Hilti HAT 28 M Anchor Tester Kit. This image shows the compact, handheld device with its integrated display and testing mechanism, designed for pull-out and test load measurements of anchors and fasteners.

The Hilti HAT 28 M is engineered for precision and ease of use in critical testing scenarios. Its primary functions include:

- **Test Load Application:** Applying specific control forces to anchors installed in various materials.
- **Pull-out Testing:** Determining the tensile strength of anchors and DX fasteners in both laboratory and construction site environments.
- **Lifting Point Verification:** Checking existing lifting points in elevator shafts or similar structures.

## SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present.
2. **Inspection:** Before first use, inspect the device for any visible damage. Do not use the device if any damage is detected.

- 3. Preparation of Anchor:** Ensure the anchor or fastener to be tested is correctly installed according to its manufacturer's specifications and is free from debris.
- 4. Attachment:** Securely attach the HAT 28 M tester to the anchor using the appropriate adapter or connection mechanism. Ensure a firm, stable connection to prevent inaccurate readings or damage.
- 5. Power On:** If applicable, ensure the device is powered on. The display should illuminate, indicating readiness for operation.

## OPERATING INSTRUCTIONS

Follow these steps for accurate testing:

- 1. Positioning:** Position the HAT 28 M tester so that the force is applied axially to the anchor. Avoid angular loading, which can lead to incorrect results.
- 2. Applying Load:** Gradually apply the test load using the integrated mechanism. Observe the display for real-time load readings.
- 3. Reading Results:** Once the desired test load is reached or the anchor shows signs of failure (for pull-out tests), record the value displayed on the screen. The display provides direct readings of the applied force.
- 4. Releasing Load:** Slowly release the applied load.
- 5. Detachment:** Carefully detach the tester from the anchor.
- 6. Multiple Tests:** For comprehensive evaluation, perform multiple tests on different anchors or at different locations as required by project specifications or standards.

**Note:** Always refer to relevant industry standards and project specifications for required test loads and acceptance criteria.

## MAINTENANCE

- Cleaning:** After each use, clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Storage:** Store the HAT 28 M in its original case in a dry, dust-free environment, away from extreme temperatures.
- Calibration:** Regular calibration by authorized Hilti service centers is recommended to ensure continued accuracy and compliance with certification requirements. Refer to the device's service schedule for recommended intervals.
- Inspection:** Periodically inspect all moving parts and connections for wear or damage. Replace worn components only with genuine Hilti spare parts.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate readings	Improper attachment; device out of calibration; damaged components.	Ensure secure and axial attachment. Check calibration status. Contact Hilti service for inspection.
Display not working	Low battery (if applicable); internal fault.	Check battery level and replace if necessary. If problem persists, contact Hilti service.
Difficulty applying load	Mechanism obstruction; internal mechanical issue.	Inspect for obstructions. Do not force. Contact Hilti service.

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact Hilti customer support.

## SPECIFICATIONS

Feature	Detail
Manufacturer	Hilti
Model Number	355338
Package Dimensions	52.7 x 4.3 x 3.8 cm
Weight	500 grams
Voltage	100 Volts (if applicable, for internal components)
Wattage	100 Watts (if applicable, for internal components)
Quantity of Items	1
Batteries Required	No (as per product data, implies mechanical or passive operation)
ASIN	B08YFLT3WD
First Available Date	June 15, 2021

## WARRANTY AND SUPPORT

For information regarding warranty coverage, service, and technical support for your Hilti HAT 28 M Anchor Tester Kit, please refer to the official Hilti website or contact your local Hilti representative. Keep your purchase receipt and product serial number readily available when contacting support.

Hilti is committed to providing high-quality products and excellent customer service. For spare parts availability, please inquire directly with Hilti, as information may vary by region.

© 2024 Hilti. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.