

Technical Information

Heavy Use Instructions

Equotip testers are designed for portable hardness testing in industrial settings. A few simple precautions will help to enhance device performance and prolong the service life in harsh work environments.

Preparing the Tester

- **Charging the instrument battery** / connecting the Equotip power supply unit: Operate Equotip using only the supplied power supply unit or specified rechargeable battery.
- Use the **Equotip protective pouch, stand, or wall-mount.**
- Equotip cables are optimized for movement. Even so, **avoid sharp bends in the cables** and sudden loads on connectors (these can occur, for example, if the cables become caught or coiled).
- **Regularly check to make sure the tester is operating properly** on Equotip hardness test block(s); this also provides an opportunity to carry out a "practice run".

Preparing the Probe

Minimize dirt build-up on the impact device and ensure accuracy by:

- **Removing dirt**, oil, grease, and other contaminants from the measuring point
- **Machining the surface** as per the Equotip Technical Information Sheet for roughness requirements
- **Wiping off metal dust** and abrasive grit with a cloth
- **Seating the sample on a solid support base** or in a holder / fixture



Measurement Procedure

- Hold the black **loading tube** with your pointer finger, middle finger, and ring finger on one side and your thumb on the other side. With the other hand, hold the **coil casing** as close as possible to the **support ring**, but **without covering the hole in the ring**.
- **Load the impact device in the air** by slowly and evenly sliding the loading tube as far as it will go in the direction of the coil housing. Then slowly draw the loading tube back, **never allowing it to snap back abruptly**.
- **Slightly depress the release button with your thumb** and wait for approximately 1 second before the next measurement.

Tip: When performing measurements, wear clean gloves and take extra care not to touch the guide tube with dirty hands.

Routine Maintenance and Inspection

- Every day, clean the guide tube: insert the **brush and clean using a rotating and rubbing motion**.
- **Clean the support ring and the impact body** (especially indenter ball and catch pin) with acetone.
- Yearly inspection of the instrument by a Proceq-certified Service & Repair Center is recommended.

Tip: Every week, clean the impact device from the inside (using an acetone-soaked cotton swab) and outside (using an acetone-soaked cloth).

Proper Storage

- **Never leave the impact device out on the workbench.**
- **Do not coil the cable tightly.**
- **Clean the test surfaces of the hardness test block with acetone** and cover with Proceq protective sticker.
- **Store in an Equotip case** in a dry location at room temperature.

