

Portable Leeb Hardness Testers

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Measuring & Inspection

The Leeb hardness tester bounces a small impact device off a surface and measures the rebound to read hardness, giving instant portable readings on steel and most metals with conversions to Rockwell, Brinell and Vickers scales.

Key Features

- Impact devices (D type standard)
- Rebound measurement
- Conversions to multiple scales
- Digital displays with statistics
- Battery powered

Typical Uses in the Workshop

- Test heat-treated and machined parts
- Verify steel grades and welds
- Field hardness checks
- Quality inspection lessons

Safe Operation

1. Clean and prepare the test surface
2. Support the part so it cannot move
3. Fire the impact device against the surface
4. Read the hardness value
5. Convert to the required scale

SAFETY NOTES

- Keep fingers clear of the muzzle
- Do not test thin unsupported parts
- Test on stable surfaces to avoid bounce-back
- Store the impact device secure
- Handle the unit gently

Maintenance & Consumables

- Clean the impact tip
- Check the calibration block
- Calibrate before critical work
- Charge the batteries
- Store in the case

Specification & Buying Notes

A Leeb tester with a D-type impact device and calibration block covers portable hardness checks. Quality units convert accurately; cheap ones drift with rebound friction.