

# LEEB HARDNESS TESTER

## METERDI MR-LH70/ MR-LH70 WITH NABL

METERDI Leeb hardness tester MR-LH70 is a portable device that measures the hardness of metals using the rebound method. It calculates hardness based on the ratio of the impact and rebound velocities of a test body. The device is widely used because it's portable, efficient, and easy to operate, making it a favorite in industries like manufacturing, automotive, and construction.

METERDI Leeb Hardness Tester MR-LH70 is specially designed for express control of the hardness of metal products. It's a versatile solution for accurate portable hardness testing and an essential tool for claims work. This device is perfect when other devices fail to provide sufficient accuracy in hardness measurements.

The MR-LH70 portable hardness tester operates on a dynamic sensor principle, making it one of the most versatile and effective solutions for quality control. Whether you need to check incoming materials, monitor in-process work, or verify outgoing products, this device ensures precision and reliability.



### Features

- **Portable and Rugged Design:** Equipped with a protective casing, rubber inserts, and a dust-resistant cover, the MR-LH70 is built for durability in manufacturing workshops and field conditions.
- **Advanced Display:** Features a 3.5-inch vibrant color LCD TFT display with an intuitive menu interface.
- **Custom Calibration:** Supports programming of user-specific calibrations alongside standard scales, making it suitable for unique enterprise requirements.
- **Built-in Database:** Acts as a mini-computer, storing and managing data on various materials and scales.
- **Modern Electronics:** Utilizes advanced electronic components for enhanced software processing and measurement accuracy.
- **High Accuracy:** Offers precise results that approach the accuracy of stationary hardness testers.
- **Dimension:** 185×98×42 mm (including rubber inserts), Weight: 0.35 kg

### Applications

The MR-LH70 is ideal for various tasks, including:

- Measuring the hardness of carbon and structural steels.
- Checking surface-hardened products.
- Testing heat-resistant, corrosion-resistant, and stainless steels.
- Measuring galvanized coatings and welds.
- Testing aluminum and copper alloys.
- Checking complex configurations, thin-walled items, and compact products.

METERDI Leeb Hardness Tester MR-LH70 combines accuracy, reliability, and portability, making it the ultimate choice for all your hardness testing needs. Whether in a laboratory, workshop, or outdoor environment, trust the MR-LH70 to deliver unmatched performance.



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## METERDI MR-LH70/ MR-LH70 WITH NABL

Measurement Range for Main Scales	
Rockwell	20–70 HRC*
Brinell	20–650 HB*
Vickers	230–940 HV*
<b>Note:</b>	The hardness tester can be recalibrated across broader and individual ranges when reference samples with corresponding hardness values are available.
Measurement Error	Subject to following recommendations
Standard Requirements	ISO and ASTM Standards
Rockwell	±0.2 HRC (recommended) / ±2 HRC (ISO/ASTM)
Brinell	
90–150 HB	±3 HB (recommended) / ±10 HB (ISO/ASTM)
150–300 HB	±3 HB (recommended) / ±15 HB (ISO/ASTM)
300–450 HB	±3 HB (recommended) / ±20 HB (ISO/ASTM)
Vickers	
240–500 HV	±3 HV (recommended) / ±15 HV (ISO/ASTM)
500–800 HV	±3 HV (recommended) / ±20 HV (ISO/ASTM)
800–940 HV	±3 HV (recommended) / ±25 HV (ISO/ASTM)
Accuracy Recommendations	
Roughness Requirements	Adhere to gauge or product roughness guidelines; follow the user manual.
Recommended Roughness	
Type “D” (Dynamic Sensor)	3.2 Ra
Type “G” (Dynamic Sensor)	7.2 Ra
Surface Requirements	
Diameter for Sensor Installation	From 14 mm / 0.551” on a flat surface
Materials	Pre-calibrated for steel, cast iron, stainless steel, aluminum, bronze, brass, and copper. Additional materials available for calibration.
Calculations	
Average Value	Calculated from 1–20 measurements
Additional Calculations	Minimum, maximum, and average values; Algorithm for rejecting incorrect measurements
Features	
Algorithm for False Values	Yes
Scale Conversion	Conversion into various hardness scales
Programmable Scales	Support for additional scales beyond 100
Graph Construction	Includes all points used in the mean value calculation
Language Support	Ukrainian, English, Russian
Memory Capacity	128 MB (stores over 1,000 measurements)
Device Body	Impact-resistant plastic casing with rubber bumper for fall protection
Display	LCD TFT 3.5”, 320×480 px
PC Connection	USB for results processing and report generation
Power Supply	Rechargeable Li-Pol battery, 3.7V, 3000mAh
Work Duration	9 hours of operation without recharging
Operating Temperature	-20 to +45 °C, without condensation

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## Delivery Scope

- 1 x Leeb Hardness tester MR-LH70
- 1 x Rebound probe type D
- 1 x Charger
- 1 x USB cable
- 1 x Test Block
- 1 x Carrying case
- 1 x Instruction manual
- 1 x NABL Calibration certificate (On additional charges)



## Order ID

- Leeb Hardness tester MR-LH70
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