

TKM-359CE

LEEB HARDNESS TESTER



High precision hardness tester TKM-359CE is intended for quick measuring of metal items in laboratorial, manufacturing and field conditions.

Device is intended for non-destructive testing of production quality in metallurgy, mechanical engineering, aircraft, shipbuilding, atomic industry, oil and gas industry.

Hardness tester functions by Leeb method.

Impact proof, ergonomic housing (IP 65)



TKM-359CE CONTROLS HARDNESS OF FOLLOWING:

- All basic types of metals and alloys without additional calibrations (structural, tool, corrosion-proof, heat-proof, non-corrosive steels and alloys as well as alloys of nonferrous metals, cast iron, aluminium, bronze, brass);
- Items with surface hardening and high frequency current hardening;
- Items of complicated configuration;
- Heavy and big items with rough surface.

EXPLOITATION ADVANTAGES

- Wide range of controlled metals and alloys.
- Low sensitivity to the curvative and roughness of surface.
- Monitoring of hardness change along the surface.
- Stable measurements independent from force and time of pressing the probe to the surface.
- Possibility of material identification in blank production.
- Control of "volumetric" hardness.

FEATURES OF TKM-359CE

1. Impact-, dust- and water- proof housing.
2. Intuitive "plug and play" graphic interface.
3. Bright color graphic display allows working at below zero temperature and stays bright at any lighting.
4. Signalization of exceeding of prescribed readings threshold.
5. Unique system of statistic data processing.
6. Fast adjustment of device readings by one or 2 standard test blocks.
7. Intellectual averaging of readings.
8. Flexible device memory for recording of readings and their analysis.
9. Programming of additional scales calibrations of hardness tester by 2 or less standard test blocks.
10. Fast programming of additional scales by 2 to 10 standard test blocks.



HARDNESS TESTER MODES:

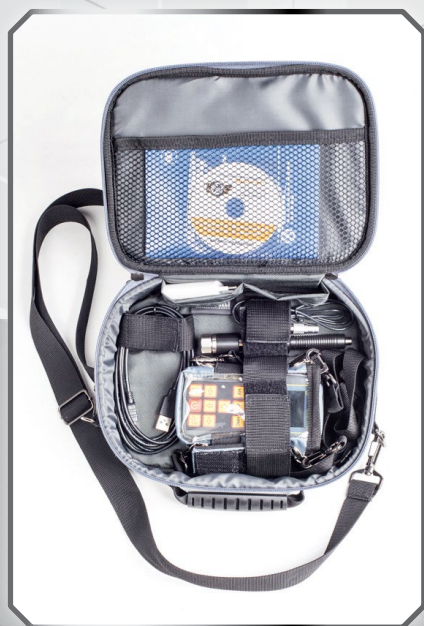
Measurement mode	Readings	Using
By basic scales	Basic hardness units (HRC, HB, HV)	Hardness testing of the bulk of products
By additional calibrations to basic scales	By HRA, HRB, HSD scales and ultimate tensile strength	Hardness testing of high-alloy steels, special cast iron and nonferrous metals
By additional scales	Scales are programmed by the user	Special problems solving

REQUIREMENTS TO CONTROLLED ITEM:

- Items heavier than 5 kg and thicker than 6 mm need no additional preparation;
- Hard items (eg tubes) with awaited hardness from 90 to 250 HB and thicker than 4 mm need no additional preparation;
- Other items should be fixed on a support plate by fixing paste;
- Roughness of controlled surface providing best measurement accuracy depends on a probe.



BASIC DELIVERY SET



Elements	Quantity
Electronic unit	1
Accumulator (pre-installed)	1
D-type probe	1
Connecting cable	1
Charger	1
PC cable	1
Soft case	1
Cuff to fix device on arm	1
Bag for carrying and storing	1

ACCESSORIES

1. Replaceable probes of different construction and impact force.
2. Special head "Z-359" for easier probe positioning on complex surfaces.
3. Connection cables.

