



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
LAT N° 182

AUTOMATIC HARDNESS CHECK - DRIVE

AUTOMATIC INSTRUMENTS FOR SHORE HARDNESS OR IRHD MEASUREMENTS WITH INTERCHANGEABLE MEASURING HEADS

STANDARDS: ASTM D1414; ASTM D1415; ASTM D2240; EN 681-1; FIAT 50408; FIAT 50411; ISO 868; ISO 48-2; ISO 48-4; ISO I2046; VDA 675-202;

NOTE: COMPLIANCE WITH SOME STANDARDS MAY REQUIRE OPTIONAL ACCESSORIES OR SETUPS.



Automatic hardness tester with interchangeable measuring heads consisting of a motorized holder equipped with a digital display for stand-alone use. The instrument can be configured as needed by applying measuring heads for different hardness scales, the control software, and different sample holders for testing specific products. The measuring heads that can be applied to the automatic hardness tester are **Shore (A, D, 00, Micro) and IRHD (Micro, N, L, H)** and are fully compliant with the requirements of international standards.

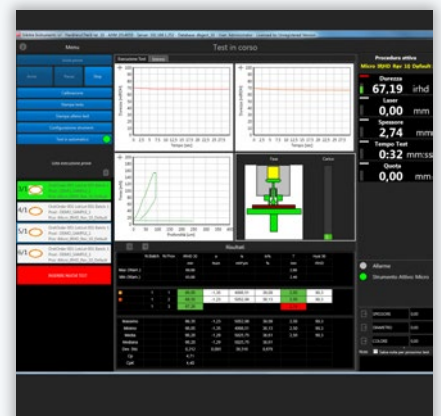
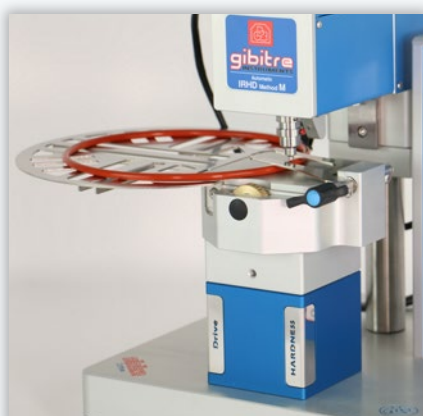
The measuring heads are quickly interchangeable, allowing the user to configure the instrument in seconds for the required scale. The stand for applying the heads is motorized and allows for **automatic multiple tests** at different points on the specimen. The **Digital Display** and Soft-touch Control Keypad built into the instrument allow it to be used in stand-alone mode by displaying results on the display. For a more sophisticated control of the instrument and to ensure traceability of all the results produced,

Gibitre Hardness Check software is available in version 10 cha allows identification and archiving of results and curves, production of reports and labels, verification of compliance of results with tolerance limits and statistical analysis. ACCREDIA calibration can be carried out either at the site by Gibitre's Accredited laboratory or on site. **Accessories**

- Centering devices for O-rings
- Centering device for rubber hoses.

Available hardness types: Shore: (A, D, 00, M) ; IRHD: (Micro, Normal, Hard, Low)
Resolution: 0.01 Hardness point
Maximum Sample Thickness: 100 mm
Integrated Digital Display: Allows complete control of the instrument and display of results
Optional Software: Software for the complete control of the instrument compatible with Windows 10 and 11.

Test modality: Fully automatic test in different points of the same sample
Test results calculated for each test: Shore units: Initial hardness, hardness values after set test times; IRHD/micro IRHD: Hardness at 30 sec (and at set test times), Angle Coeff. of Hardness Vs Time curve, Hysteresis after load removal.
Personal Computer (optional): Minimum Setup: Windows 10 or 11, Intel Core i5, 5GB RAM





SWITCHABLE HARDNESS MEASURING HEADS

**SHORE AND IRHD MEASURING HEADS FOR
HARDNESS TESTER AUTOMATIC HARDNESS CHECK
- DRIVE**



The new generation of Automatic Hardness Tester in Drive version allows you to define the configuration of your hardness tester according to your needs.

Interchangeable Measuring Heads

Measuring heads (Shore and IRHD) can be replaced

in seconds on the motorized stand by means of a solid quick coupling system that ensures their perfect perpendicularity.

Replacing the measuring heads is an ideal solution for laboratories with the need to measure against

numerous measurement scales.

Additional measuring heads can also be added later than the purchase of the instrument, allowing you to increase your laboratory's measuring capabilities as new needs arise.

Type of Hardness units:

Shore A: Standards: ISO 48-4, ASTM D2240; ; Application: Soft Rubber, Plastics, Elastomers; ; Sample standard thickness: 6 mm

Shore D: Standards: ISO 48-4, ASTM D2240, ISO 868; ; Application: Hard Rubber, Thermoplastics; ; Sample standard thickness: 6 mm

Shore A0: Standards: ISO 48-4; ; Application: Light Foams, Sponge Rubber, Gels, Human Tissue; ; Sample thickness: 6 mm

Shore 00: Standards: ASTM D2240; ; Application: Light Foams, Sponge Rubber, Gels, Human Tissue; ; Sample thickness: 6 mm

Shore AM: Standards: ISO 48-4, ASTM D2240; ; Application: Small Technical

Articles, O-rings; ; Sample thickness: 1.5-6 mm

IRHD UNITS:

IRHD-M (MICRO): Standards: ISO 48-2, ASTM D1415; ; Application: Small Technical Articles, O-rings; ; Sample thickness: 1-5 mm

IRHD-N (NORMAL): Standards: ISO 48-2, ASTM D1415; ; Application: Rubber Parts with Hardness >30 irhd; ; Sample thickness: 8-10 mm

IRHD-H (HIGH HARDNESS): Standards: ISO 48-2, ASTM D1415; ; Application: Hard Rubber Parts with Hardness >85 irhd; ; Sample thickness: 8-10 mm

IRHD-L (LOW HARDNESS): Standards: ISO 48-2, ASTM D1415; ; Application: Soft Rubber Parts with Hardness <35 irhd; ; Sample thickness: 8-10 mm





ACCREDIA CALIBRATION SERVICE

GIBITRE INSTRUMENTS IS ACCREDITED ACCREDIA CALIBRATION LABORATORY ACCORDING TO ISO 17025:2018 STANDARD AND PROVIDES CALIBRATION SERVICE FOR HARDNESS (SHORE & IRHD) AND TENSILE (FORCE, ELONGATION, SPEED) TESTERS



Gibitre Instruments' metrology laboratory has been accredited as an Accredia Calibration Laboratory (**LAT 182**) since 2005. The calibration Laboratory complies with the **ISO 17025:2018** standard. The laboratory is currently accredited for the

calibration of:
Hardness Testers
• IRHD (Micro, Normal, Hard, Low) according to ISO 48-9
• Shore hardness testers A and D according to ISO 48-9 and ISO 868

Tensile Testers Testers
• Force according to ISO 7500-1
• Elongation & Displacement according to ISO 9513 and ISO 5893
• Speed according to ISO 5893 and ASTM E2658

Place of performance of the Calibrations: Gibitre Instruments is accredited for calibrations; - At the Gibitre metrology laboratory; - At the customer's laboratory.
Calibration of Hardness Testers:
IRHD (Micro, Normal, Hard, Low) hardness testers : According to ISO 48-9 & ISO 48-2 Standards
Shore hardness testers A and D: According to ISO 48-9, ISO 48-4 and ISO 868 Standards

Note about Calibration at customer site: Calibration of Shore & IRHD Hardness Testers performed at the customer's site does not include dimensional calibration of the indenter and can only be performed for Gibitre brand instruments
Calibration of Tensile Testers (UTM):
Calibration of Force: According to ISO 7500-1.;
Calibration of Elongation: According to ISO 9513 and ISO 5893
Calibration of Speed: According to ISO 5893 and ASTM E2658

