

Hardness Testers - Measuring Quality

## ELECTRONIC SHORE



## To perform Shore hardness tests in compliance with the relevant standards, including ASTM D2240, ISO 48-4, ISO 868 and ISO 21509

The Axiotek Electronic Shore hardness tester comes with a **tungsten carbide indenter** and a true 0.1 Shore resolution display, for immediate reading of the measured values.

Suitable for all polymers, elastomers, rubbers and gel-like materials (such as **plastics, rubber, medical items, paper and foams**), even with complex or hollow geometries. Ideal for measuring all A, B, C, D, DO, AO, E, O, OO, OOO and OOO-S Shore hardness scales.

## Why choose an Axiotek Digital Shore?

- Carry out individual tests and produce **customisable statistical reports that can be exported and printed as desired.**

- It allows to **set automatic tolerances** that will be followed in each test.
- It allows **measurements in different modes** (peak, continuous and with timer).
- It realizes **several Shore hardness scales**, whilst maintaining the same electronic console: it is in fact possible to install several hardness probes on the same console, with automatic self-recognition.

### SUPPLIED WITH:

- Use and maintenance manual
- Manufacturer certification traceable to primary Laboratories
- Indenter guard with reference gauge for instrument calibration



0.1 Shore resolution

Dot matrix LCD display with high visibility of characters in all lighting conditions



Possibility of connecting up to 4 different measuring probes to the same electronic box



## DX 136 Manual support

**Universal mechanical operation bench top stand:** simply manually operate the lever to carry out the test and determine the hardness value

### Immediate benefits:

- ⊙ **Eliminates human influence** during the execution of the test.
- ⊙ **All Shore scales are readily available in a single instrument:** thanks to the kit of additional calibrated masses, DX 136 realizes all Shore scales from D to OOO in accordance with the relevant international reference standards.
- ⊙ **Possibility of removing the Shore instrument** for use in portable mode

- 1 *Practical lever to bring the indenter closer to the sample being tested.*
- 2 *Height-adjustable rod to accommodate larger samples.*
- 3 *Interchangeable support with a dedicated accessory kit (optional) for small samples with complex geometries.*



## DX 835 Motorised stand

**Universal bench top stand with electronic operation:** simply press the button to complete the test, determining the hardness value.

### Immediate benefits:

- ⊙ **Eliminates human influence during** the execution of the test.
- ⊙ **It maximises the reproducibility of measurements,** thanks to the electronic control of the probe descent speed.
- ⊙ **All Shore scales are readily available in a single instrument:** thanks to the kit of additional calibrated masses, DX 835 realizes all Shore scales from D to OOO in accordance with the relevant international reference standards.
- ⊙ **Possibility of removing the Shore instrument** for use in portable mode

- 1 *Button to automatically bring the indenter closer to the sample being tested.*
- 2 *Interchangeable support with a dedicated accessory kit (optional) for small samples with complex geometries.*
- 3 *Motorised measurement head with a programmable descent speed from 0.5mm/s to 16mm/s.*














**Where data  
accessibility  
becomes  
within easy  
reach.**

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## POSSIBLE SHORE SCALES

The electronic shore can, alone or in combination with the chosen bench top stand, perform different tests depending on the chosen Shore scale.

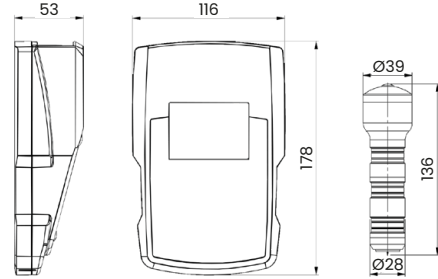
SHORE	REFERENCE MATERIALS	RECOMMENDED FIELD OF MEASUREMENT
 <b>A</b>	Soft rubber, elastomers, natural rubber products, neoprene, coloured resin, polyester, soft PVC, leather etc.	20 - 90
 <b>B</b>	Medium-hard rubber materials, thermoplastic elastomers, paper products and fibrous materials.	10 - 90
 <b>C</b>	Medium-hard rubber, thermoplastic elastomers, semi-rigid plastics and thermoplastics	10 - 90
 <b>D</b>	Rigid and hard materials, synthetic materials, acrylics, plexiglass, wood, thermoplastics, printing rolls, etc.	20 - 90
 <b>DO</b>	Plastics and semi-hard rubbers	10-90
 <b>E</b>	Foams, soft elastic materials, expanded materials	20-90
 <b>AO</b>	Foams, soft elastic materials, expanded materials	20-90
 <b>O</b>	Soft elastic materials, nylon, textiles etc.	10 - 90
 <b>OO</b>	Spongy rubber, foam rubber, silicone, etc.	20 - 90
 <b>OOO</b>	Spongy rubber, foam rubber, silicone, etc.	20 - 90
 <b>OOO-S</b>	Spongy rubber, foam rubber, silicone, etc.	20 - 90

## ELECTRONIC SHORE

- Reference standards: ASTM D2240, ISO 48-4, ISO 868 and ISO 2150.
- Weight: 800g (both console and probe)
- Resolution: 0,1 Shore
- Backlit display size: 60x42 mm
- Power supply: 7,2V cc – 250mA
- Battery: Up to 8 hours of use.
- Data output: Integrated RS 232 for immediate connection to printers or computers



Download the data sheet at the bottom of the page

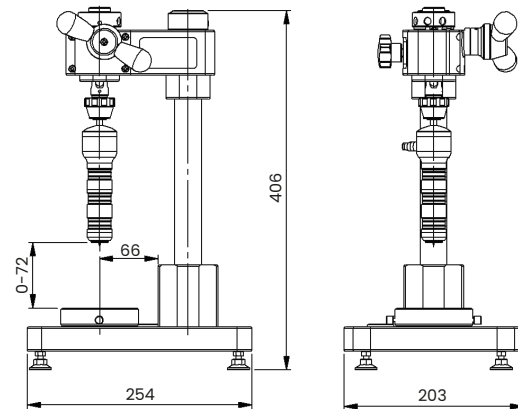


## DX 136 STAND

- Reference standards: ASTM D2240, ISO 48-4, ISO 868 and ISO 21509.
- Weight: 9 Kg
- Useful depth: 66 mm
- Head movement: 72 mm
- Resolution: 0,1 Shore



download the data sheet

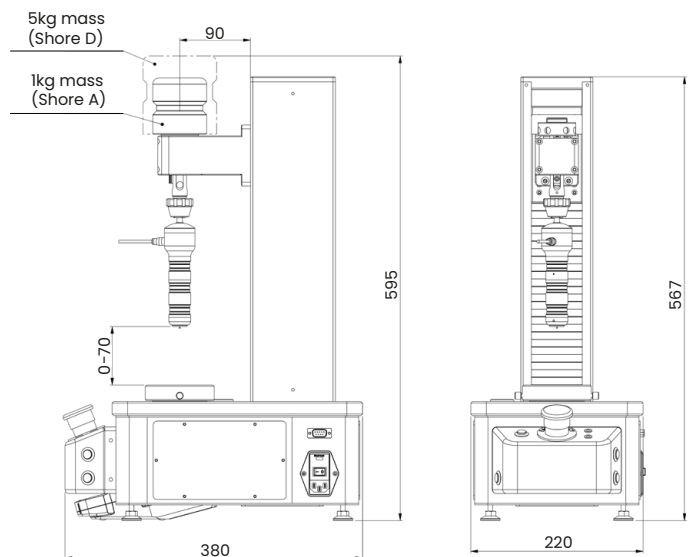


## DX 835 STAND

- Reference standards: ASTM D2240, ISO 48-4, ISO 868 and ISO 21509
- Weight: 17,5 Kg
- Useful depth: 90 mm
- Head movement: 70 mm
- Resolution: 0,1 Shore
- Power supply: 115/230v – 50-60Hz

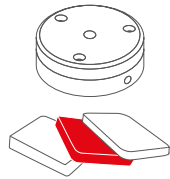


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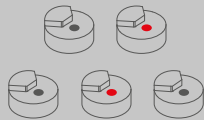




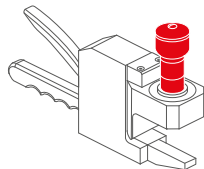
Annual calibration and maintenance of the equipment with the issuing of the primary Laboratories certificate.



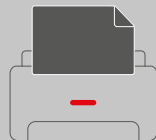
Certified test samples (available in rubber and metal).



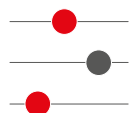
Set of accessories for the testing of O-rings in standardised sizes.



Clamp holder. Portable support for electronic and analogue probes.



Portable printer for immediate printing of the test results.



Possibility of customisations.

## Service & Maintenance

Our generational experience based on more than 60 years of field work allows us to answer any of your questions or concerns.

Our highly strategic geographical position allows us to support you in the maintenance of your instrument, offering you completely made in Italy spare parts.

## Why choose us?

- ◉ We guarantee **100% Italian quality**.
- ◉ We believe in **true innovation**: listening to your needs and making an hardness tester that can meet them.
- ◉ We promote an **empathic design**, which ensures functionality and harmony in the interaction with measuring instruments.
- ◉ **We are pragmatic and result-oriented**: what we design and produce is the result of years of study, research and experimentation.
- ◉ **We love to accompany you step by step**, listening and advising you what better embraces your needs



### WHERE WE ARE

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