

e-computest

WIRELESS LIGHT LOAD PORTABLE HARDNESS TESTER



OPERATING PRINCIPLE AND USE

e-computest is a miniaturized Rockwell hardness testers, featuring the same accuracy and repeatability of a bench instrument but in a compact shape, allowing tests on big size samples and at outdoor testing procedures.

- ⚙️ e-computest can be used to test the whole range of metals, without changing the indenter. Operator only needs to select the desired scale, place the tester on the test part, press down on the test head and read the result. Thanks to its unique loading system, the tester can transmit only its specified load (5 kgf), regardless of the operator strength.
- ⚙️ The hardness result is immediately displayed.
- ⚙️ The instrument is equipped with a diamond cone indenter (ERNST design).
- ⚙️ e-computest can work in different positions and is provided with different supports, easy interchangeable and adaptable to different test situations.
- ⚙️ e-computest is delivered with a 6" Industry grade Android tablet, the application allows fast data management, sharing, archiving and printing.
- ⚙️ e-computest can be used with a specific stand to allow small parts to be tested.

e-computest ADVANTAGES

- ⚙️ e-computest is a light load (5 kgf) portable hardness tester using the Rockwell method (preload, full load, and reading back at preload)
- ⚙️ e-computest can be used to test the whole range of metals, without changing the indenter
- ⚙️ e-computest allows fast wireless data sharing (up to 80 meters distance) through a user-friendly Android application
- ⚙️ e-computest has a cordless design for a great working ergonomics
- ⚙️ e-computest gives you the trust and confidence of working with a product that meets the international standards and can be supplied with international standards certification. DIN 50157 conformity

Time and cost savings:

- ⚙️ No need to move large structures: easy to carry and move, e-computest can perform hardness testing on the field.
- ⚙️ No need to buy and change indenters: e-computest can test the whole range of metals
- ⚙️ No need of wiring: Wireless data transfer up to 80 metres distance
- ⚙️ No product waste: Non destructive testing allows 100% testing and avoid wasting of products

Accuracy and durability:

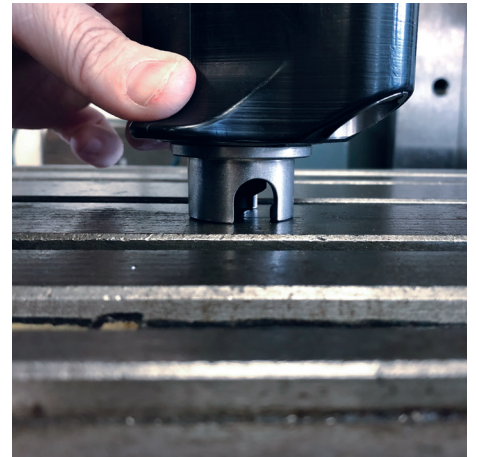
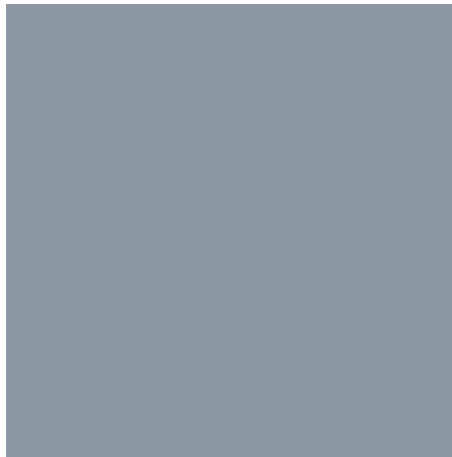
- ⚙️ Minimal repair and service

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|--|---|
| Test load: | 49N (5 kgf) |
| Preload: | 11.7N (1.2 kgf) |
| Test principle: | Rockwell |
| Repeatability: | +/- 0.3 HRC or HB < 1% |
| Measuring range and available hardness scales: | HRC (0-70) HRB (0-120) HB30 (80-700) N/mm ² (260-2300) Kg/mm ² (27-235) HV (35-1080) DPTH (0-100) |
| Optional scales: | HB5, HB10, HRA, HRE, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, SHORE C for steel SHORE D for steel, and generally all Rockwell, Brinell, Vickers, Shore, Leeb scales |
| Available indenters: | 1 diamond indenter |
| Minimum mass: | Not influenced by mass |
| Minimum measurable thickness: | < 1mm (hardness dependent) |



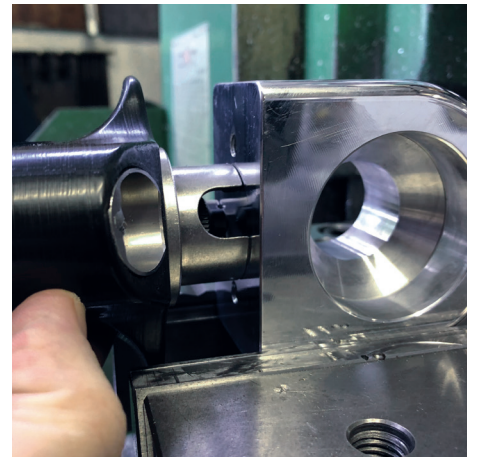
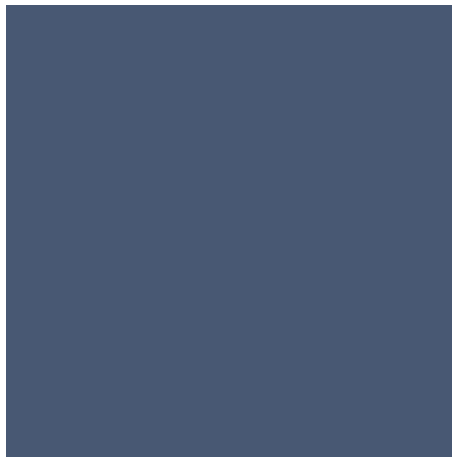
PRESALES SERVICE

- Technical consultancy to identify solutions
- Tests on Customer's samples to identify suitable product to be offered
- Tailored made sample's holders design and production
- Tailored made tools design and production



AFTERSALES SERVICE

- On-line assistance
- Repairs of parts at our facility



TECHNICAL SPECIFICATIONS

6" Tablet touch screen, IP67, twin high-resolution camera system 2.0 and 5.0 MP (front and rear), 16 GB memory Flash and 2 GB RAM.
Wireless connection between electronics and probe
Wireless rechargeable probe
Standard rechargeable and replaceable battery
Power on touch sensor
Automatic power off; delay user-defined through the application
Long life battery lithium battery (approx. 7 hours of continuous use or 20 hours in energy saving mode)
Fast recharging: 20 minutes for 4/6 hours operation time

Android application with following features:

- ⚙ High number of measuring files creation and storage
- ⚙ Results conversion to different scales
- ⚙ Real time computation and visualization of statistics and histograms.
- ⚙ Report creation and customization
- ⚙ Networks-compatible report printing
- ⚙ Editable measurements (text, images, barcodes, GPS localization, etc.)

STANDARD EQUIPMENT

- ⚙ Diamond indenter
- ⚙ Rockwell HRC hardness block (~ 60 HRC)
- ⚙ Rockwell HRB hardness block (~ 80 HRB)
- ⚙ Brinell HB30 hardness block (~210 HB/30)
- ⚙ 2 Anvils for flat surfaces
- ⚙ 1 Anvil for cylindrical surfaces (up to Ø 250mm)
- ⚙ 1 Extension 50 mm for inner testing points
- ⚙ 3 Anti-slip nonmagnetic foots for flat surfaces
- ⚙ USB power supply
- ⚙ Rechargeable battery for mechanical part
- ⚙ Wireless battery charger
- ⚙ Battery charger (allows charging additional batteries)
- ⚙ Operation manual



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