

e-dynatest

WIRELESS HEAVY LOAD PORTABLE HARDNESS TESTER



OPERATING PRINCIPLE AND USE

e-dynatest 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.

- ⚙ Thanks to the heavy load, e-dynatest is not influenced by the conditions of the surface to be tested and can be used simply by pressing it on the test surface.
- ⚙ e-dynatest has been designed to avoid any influence by deflection, elasticity or mass of the test sample. All this has been reached by developing a new dynamic system, where the load acts progressively on the indenter in a very short time and without any impact.
- ⚙ The difference of penetration between preload and load is processed and the hardness result is immediately displayed.
- ⚙ e-dynatest is equipped with a Rockwell diamond cone indenter and a hard metal ball indenter; in addition, it is equipped with different adaptors to be used with different samples size and forms.
- ⚙ e-dynatest is delivered with a 6" Industry grade Android tablet, the application allows fast data management, sharing, archiving and printing.

e-dynatest ADVANTAGES

- ⚙ e-dynatest is a unique heavy load (100 kgf) portable hardness tester
- ⚙ e-dynatest is using the Rockwell method (preload, full load, and reading back at preload)
- ⚙ e-dynatest allows fast wireless data sharing (up to 80 meters distance) through a user-friendly Android application
- ⚙ e-dynatest has a cordless design for a great working ergonomics
- ⚙ Requires only a minimum preparation of the test area and proves to be the most suitable and accurate portable hardness tester for cast iron and forged steel
- ⚙ e-dynatest 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-dynatest can perform hardness testing on the field.
- ⚙ No need to buy and change indenters: e-dynatest can test the whole range of metals
- ⚙ No need of wiring: Wireless data transfer up to 80 metres distance
- ⚙ Just little surface preparation is required
- ⚙ No product waste: Non destructive testing allows 100% testing and avoid wasting of products

Accuracy and durability:

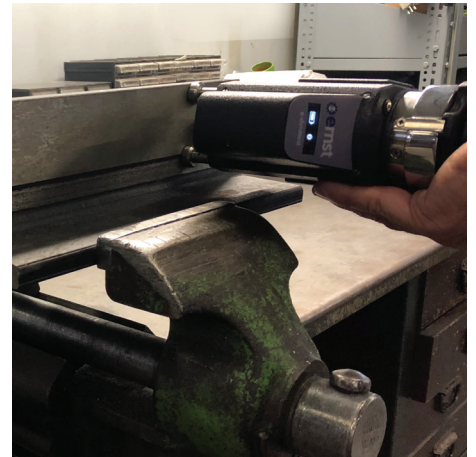
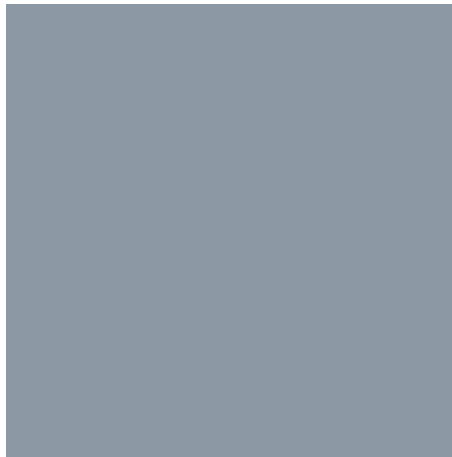
- ⚙ Minimal repair and service

Test load:	980 N (100 kgf)
Preload:	33.8 N (3,45 kgf)
Test principle:	Rockwell
Repeatability:	+/- 0.3 HRC or HB < 1%
Measuring range and available hardness scales:	HRC (10-70) 1HB30 (60-700) 2HB30 (100-500) N/mm ² (350-2050) Kg/mm ² (40-210)
Optional hardness scales:	HV, 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 Rockwell indenter and 1 hard metal ball indenter
Minimum mass:	Not influenced by mass
Minimum measurable thickness:	< 1mm (hardness dependent)



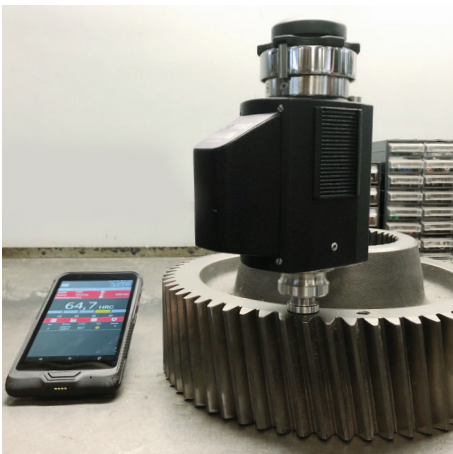
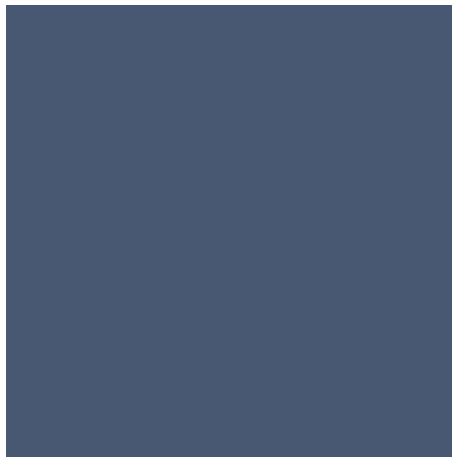
PRESALES SERVICE

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 Rockwell indenter | ⚙ USB power supply |
| ⚙ 1/16" hard metal ball indenter | ⚙ Rechargeable battery for mechanical part |
| ⚙ Rockwell/Brinell hardness block | ⚙ Wireless battery charger |
| ⚙ 3 bases for flat surfaces | ⚙ Battery charger |
| ⚙ 1 base for cylindrical surfaces | (allows charging additional batteries) |
| | ⚙ Operation manual |



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