

QUEST

electronic hardness tester
comptest sc

*Direct Rockwell-Brinell-Vickers reading.
Testing of flat and cylindrical surfaces
and of different types of material.
Testing of components of every shape
and dimension is possible.
Microprocessor electronics with multi-
function keyboard.
Will work on mains, or independently
via rechargeable batteries*



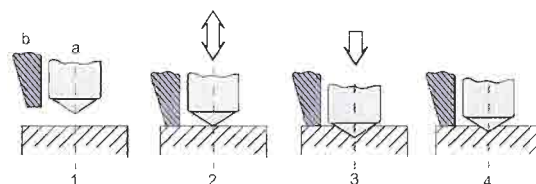
electronic hardness tester computest sc
the simple way to measure hardness

ERNST PAT.

This portable hardness tester works with static load according to the Rockwell principle with preload and test load. With one pressure movement, preload (zero-setting is carried out electronically) and test load are activated. The hardness value is shown on the backlit large display as soon as the hand pressure comes to the end. COMPUTEST SC can operate with all kinds of metals, without changing the indenter. Starting a test is very easy as it is required only to select the desired scale on the keyboard and to apply the force on the instrument. A minimum surface preparation is needed.

Computest SC allows:

- to know the measurable minimum thickness
- to carry out correction of the hardness curve
- to set tolerance values
- to carry out up to 1000 tests and to print them out later on.
- to carry out series of tests and to immediately know the average.
- to print out the test certificate in 5 different languages



- 1 BEFORE TESTING - Resting position (The indenter edge (a) stretches out from the penetrator shroud (b).)
- 2 PRE LOAD Position - The indenter draws back with a resistance equivalent to the preload value
- 3 LOADING : The Load is applied
- 4 MEASURING : The Load is removed, the penetrator displacement is readable from (a) to (b)

Direct reading : Rockwell-Brinell-Vickers scales.

Testing of flat and cylindrical surfaces and of different materials. Possibility to test components having different shape and dimension.

Electronic box equipped with multi-function keyboard and controlled by microprocessor.

Working with main supply or by rechargeable batteries (8 hours).



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Magnetic support

Used either for flat
or round surfaces
(Min. diameter 30
mm). Particularly
suitable for rolls
and cylinders.
Weight: 3,5 Kg.



COMPUTEST SC Stand

A stand is available for testing
components of small and irregu-
lar shapes. Stand is supplied
complete with a full range of
accessories.

- 1 flat anvil
- 1 V-anvil
- 1 convex brass anvil
- 1 cover

Technical data
Height: 75 mm
Depth: 60 mm
Weight: 9 Kg.





COMPUTEST SC Key functions

SCALE SELECT choice of hardness scales from the following available scales: HRC – HRB – HB/30 – N/mm² – kg/mm² – HV – depth (HB10 – HB5 for light metal alloys on request)

MENU multifunction key to access different functions

PRINT works if the hardness tester is connected to a printer with the possibility of having different print-out. Test certificate can be printed out in 5 different languages

TOL used for setting tolerances in batch testing, 4 tolerance values can be set

CAL to calibrate the hardness scale on different hardnesses or materials

MODE allows the operator to see immediately the instrument's situation

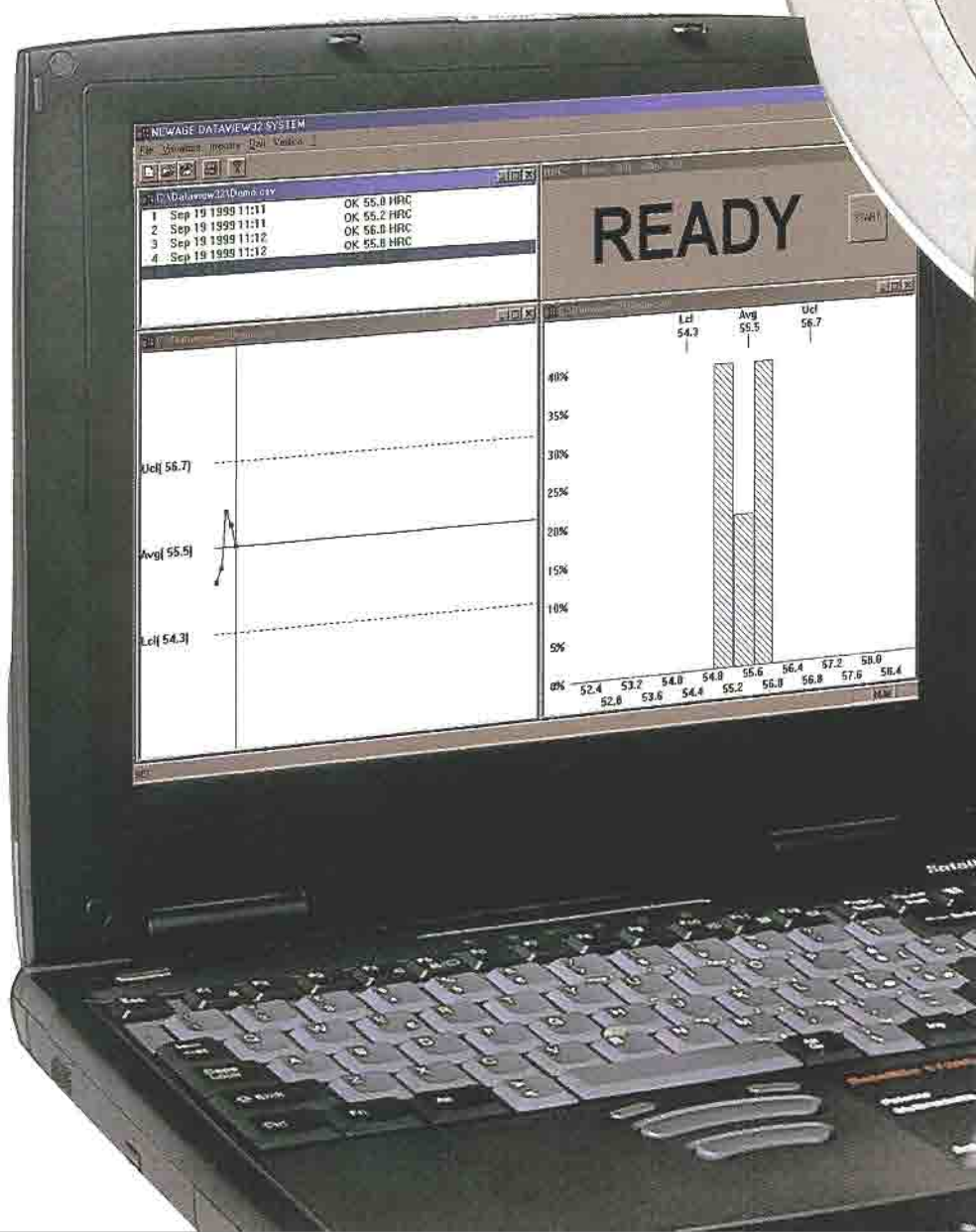
ENTER puts numerical values into memory

FILE 8 files are available



COMPUTEST SC

*the simple
way to
measure
hardness*



COMPUTEST SC Technical characteristics

Type: Computest SC, portable hardness tester

Working principle: Rockwell

Reading: Digital, on graphic backlit
LCD display 80 x 30 mm.

Test load: 49 N (5 kp)

Preload: 11.8 N (1.2 kp)

Available scales:

HRC	0 – 70
HRB	0 – 120
HB/30	80 – 700
N/mm ²	266 – 2180
kg/mm ²	27 – 222
HV	35 – 1080
Depth	0 – 100

(other scales on request)

Electronics: 16 bit connectable to peripheral units.

Available files: 8

Capacity of memory: 1000 values

Selectable functions: scales, tolerances, calibration,
language selection, load time etc.

Outputs: RS 232 C.

Power Supply: single phase from 100 to 230 VAC,
50/60 Hz with earthin. Batteries with
8 hours life.

Ambient Temperature: 0-50 °C

Gross Weight: Complete instrument with case 5,9 Kg.

Dimensions of the box: 40 x 32 x 14 cm

Mechanical part: 670 gramms

Electronic box: 780 gramms

We reserve the right to make modifications

COMPUTEST SC Standard accessories

Hardness tester complete with microprocessor
electronic readout box with RS 232 C output.

1 Battery Charger

1 Diamond Indenter

3 Test Blocks

2 Anvils for flat surfaces

1 Anvil for cylindrical surfaces

1 Extension 50 mm for inner testing

Instruction manual

Special optional accessories

Software for statistics

Scale HB10 - HB5 for light metal alloys

80 columns printer

Printer cable

Stand

Magnetic support

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