computest sc

On/Off

Sequence Number =   1

55.0 HRC

Esc   Scale

7 8 9

4 5 6

1 2 3   Tol F4

C 0 Enter   File F5

ernst

The proper solution for any hardness control issue

ernst

COMPUTEST SC
The simple way to measure hardness.
Tests form flat to cylindrical surfaces of different types,
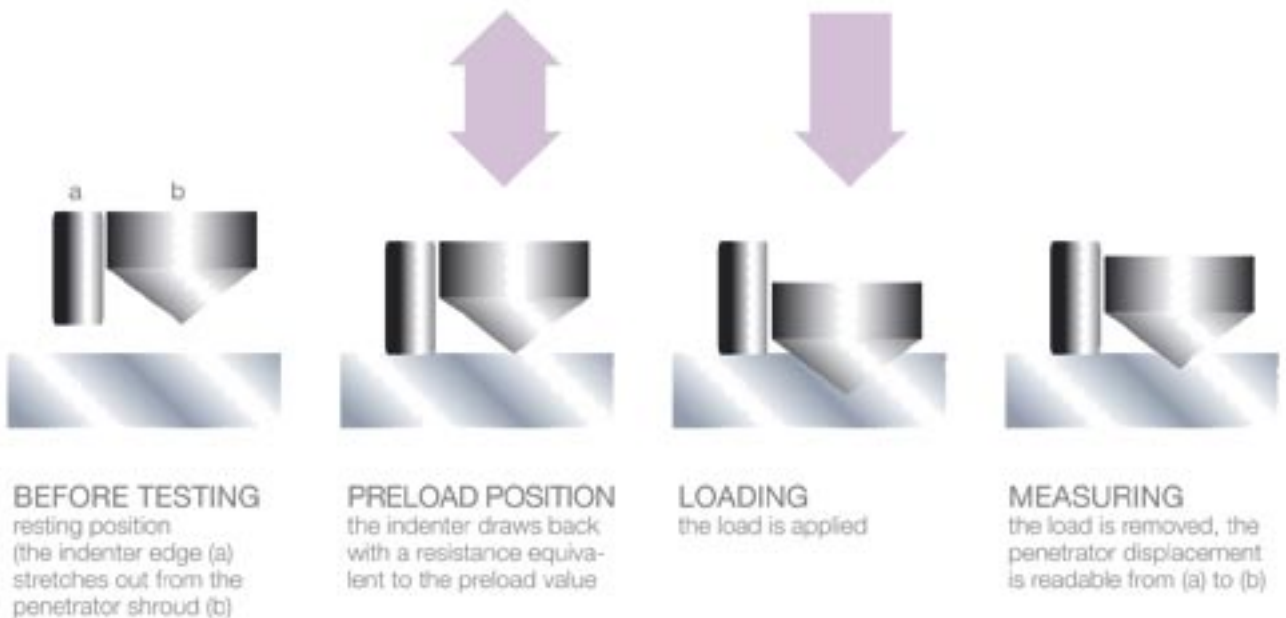materials, shapes and dimensions.
Storage memory of 1000 test results.
Optional statistics software compatible with standard pc programs.
From portable to bench hardness tester thanks to the optional stand.

COMPUTEST SC - THE PRINCIPLE

COMPUTEST SC is a portable hardness tester which works with static load according to the Rockwell principle of 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 large backlit 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: you only need to select the desired scale on the keyboard and to apply the force on the instrument. A minimum surface preparation is needed.
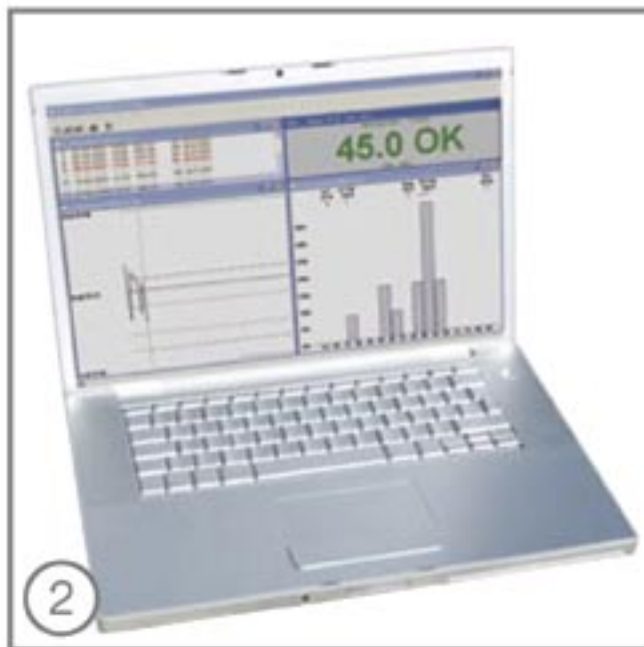

BEFORE TESTING
resting position
(the indenter edge (a)
stretches out from the
penetrator shroud (b)

PRELOAD POSITION
the indenter draws back
with a resistance equiva-
lent to the preload value

LOADING
the load is applied

MEASURING
the load is removed, the
penetrator displacement
is readable from (a) to (b)

COMPUTEST SC allows:

- To find the minimum measurable thickness
- To correct the hardness curve
- To set tollerance values
- To perform up to 1000 tests and to have them printed or downloaded on dataview later on
- To carry out series of tests and to immediately learn the average
- To print out and to certificate in 5 different languages

COMPUTEST SC – portable electronic hardness tester

COMPUTEST SC - FUNCTION KEYS

SCALE
To select the available hardness scales: HRC - HRB - HB/30 - N/mm² - kg/mm² - HV (HB5 for light metal alloys and all optional scales on request)

PRINT
Works when the hardness tester is connected to a printer having different prints-out. Test certificate can be printed out in 5 different languages

MENU
Multifunction key to access different functions

CAL
To calibrate the hardness scale on different hardnesses or materials

MODE
To display the instrument's status

TOL
To set up to 4 tolerance values in batch testing

FILE
To gain access to the saved files (8)

ENTER
To confirm and save the selected values

45.0 OK

① STAND (optional)
A stand is available for testing components of small and irregular shapes, particulary suitable for testing small series. The stand allows testing rounds up to 1,5mm minimum diameter. Includes different interchangeable supports.

② DATAVIEW32 (optional)
Captures and stores hardness testing data on a computer and generates files, which are compatible with standard pc programs. Provides tolerance indicators, generates control limits and average values, generates X-bar and R charts, histograms, CPk, etc. Provides scale conversion, minimum thickness values and round correction; builds historical data files with descriptive information for true process control.

③ ANVIL FOR CYLINDRICAL SURFACES (standard)
The standard V-base permits testing rounds up to 35mm minimum diameter

④ MAGNETIC SUPPORT (optional)
Can be used for either flat or round surfaces (minimum diameter 30mm). Particularly suitable for rolls, cylinders and sheet metals

⑤ TESTING THE WHOLE METAL RANGE
COMPUTEST SC can test the whole range of metals without changing the indenter.

COMPUTEST SC - TECHNICAL INFORMATION

TYPE	COMPUTEST SC
	portable electronic hardness tester
WORKING PRINCIPLE	Rockwell
READING	Digital, on graphic backlit LCD
	80mm x 30mm
TEST LOAD	49N (5Kp)
PRELOAD	11.8N (1.2Kp)
AVAILABLE SCALES	HRC 0-70
	HRB 0-120
	HB/30 80-700
	N/mm² 266-2180
	Kg/mm² 27-222
	HV 35-1080
	(other scales on request)
ELECTRONICS	16bit 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 100VAC - 230VAC
	50/60Hz with earthing
	8 hours operation rechargeable batteries
OPERATION TEMPERATURE	0C°-50C°
GROSS WEIGHT	Complete instrument with case 5.9Kg
DIMENSIONS OF THE BOX	40cm x 32cm x 14cm
MECHANICAL PART	670gr
ELECTRONIC BOX	780gr

COMPUTEST SC
STANDARD ACCESSORIES

Hardness tester in traditional
polished wooden box complete
with microprocessor electronic
readout
1 Battery charger
1 Diamond indenter
3 Test blocks
2 Anvils for flat surfaces
1 Anvil for cylindrical surfaces
1 Extension 50mm for inner testing
1 Calibration certificate
Operation manual

COMPUTEST SC
SPECIAL OPTIONAL ACCESSORIES

Software for statistics
Scale HB10 - HB5 for light metal alloys
and all optional scales on request
80 Columns printer
Printer cable
Stand
Magnetic support

We reserve the right to make modifications

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