ernst

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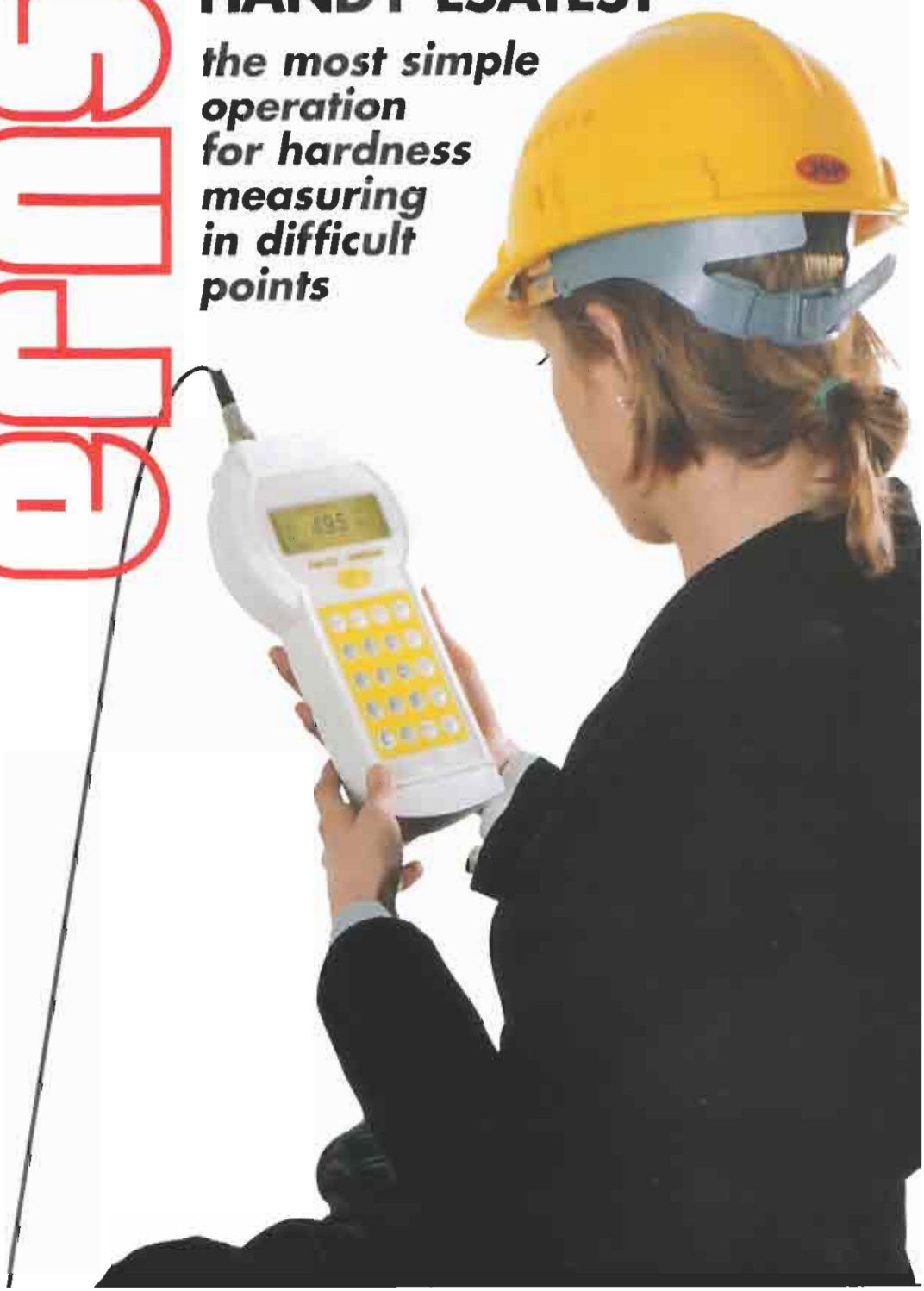
hardness tester

HANDY ESATEST

the most simple operation for hardness measuring in difficult points



Technical characteristics:

* Type: HANDY ESATEST, portable hardness tester.
* Working principle: Patent ERNST, measuring of electric resistance.
* Reading: Digital, on graphic LCD display 80 x 30 mm.
* Incorporated scales: HV, HRC, HRB, HRA, Brinell HB 30, ZNmm^2, HRF, other scales on request.
* Test loads: progressive application from 1 to 10 kp (9.81-98.1 N).
* Load application: progressively, possibility to set the maximum load by keyboard.
* Electronics: 16 bit, connectable to peripheral units.
* Available files: 8.
* Capacity of memory: 1000 values.
* Selectable functions: scales, tolerances, calibration, language selection, test load, etc.
* Outputs: RS 232 C.

* *Power supply:* single-phase from 100 to 230 VAC, 50/60 Hz with earthing. Batteries with 8 hours life

* *Ambient temperature:* 10 - 40° C, with sensor for automatic temperature compensation.

* *Gross weight:* complete instrument with case: 5,9 kg.
Mechanical part: 670 g.
Electronic box: 780 g.

We reserve the right to make modifications

Standard Accessories

- Vickers test block calibrated at 1 and 10 kp
- Support for flat surfaces
- Support for round pieces
- Two points support
- Kit for non magnetic material
- Keys
- Fuses
- Feeding cable
- Magnetic sensor cable
- Wooden box
- Instruction manual

Special accessories

- Support for internal surfaces: deep 50 mm. - diam. min. 15 mm.
- Software for statistics
- Rockwell test block
- Brinell test block
- Special scales
- Spare indenter
- 80 columns printer
- Printer cable
- Software for visualisation of the hardness curve on PC

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hardness tester HANDY ESATEST

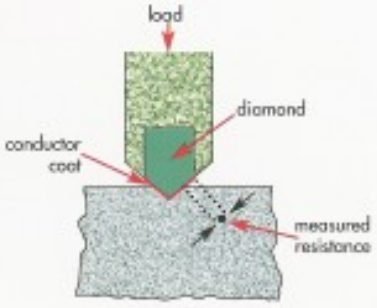
the most simple operation for hardness measuring

PAT. ernst

The ERNST factory is specialised in the development of high quality hardness testers. It has experience of more than forty years on the international market and in continuing research for new technological solutions able to solve problems in hardness testing of metals. The answer is **ESATEST**, *a new hardness tester*

which measures the electric resistance. This new principle of hardness determination, patented by ERNST, permits testing in difficult, or until now inaccessible points. The wing of a supersonic plane, the wishbone of a racing formula 1 car, a turbine blade, a wheel joint, are only some of the "difficult" points which **ESATEST** *is able to reach issuing data with a detailed comparative diagram.*

ESATEST, *the technological change which recognizes the most hidden hardness.*



Examples of testing in places ***difficult to*** *reach*

HARDNESS TESTER HANDY ESATEST

Small and large specimen • irregular shapes • interiors • gear evolvents

- *Progressive load application.*
- *With only one measurement the different hardnesses can be visualized conforming to the whole range of loads from 1 to 10kp*
- *Electronics 16 bit.*
- *Latest software, multilingual and multifunction/statistic.*
- *Direct reading on graphic LCD display 80 x 30 mm.*

The instrument can work on metallic surfaces only.

Support for interior control

In evidence
the numbers of hardness
one test only:
hardness at every load