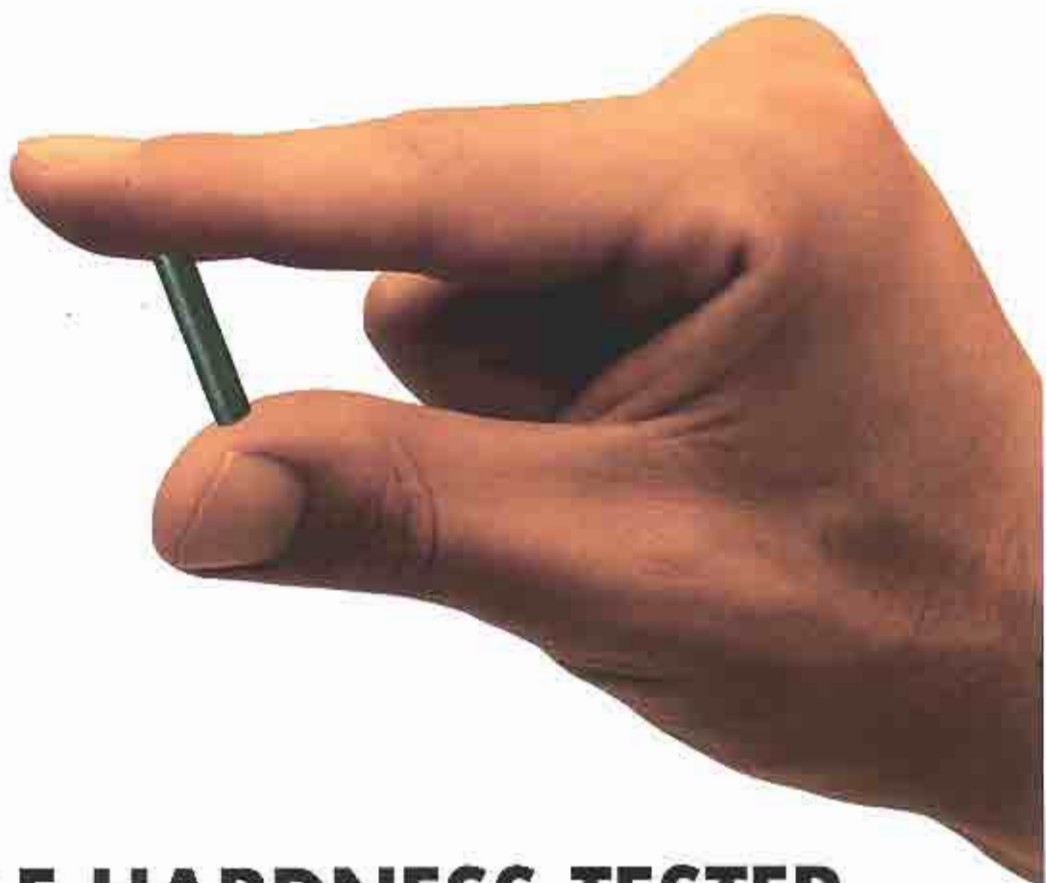

ERNST



PORTABLE HARDNESS TESTER

Calibrated Pin
Ernst
STE

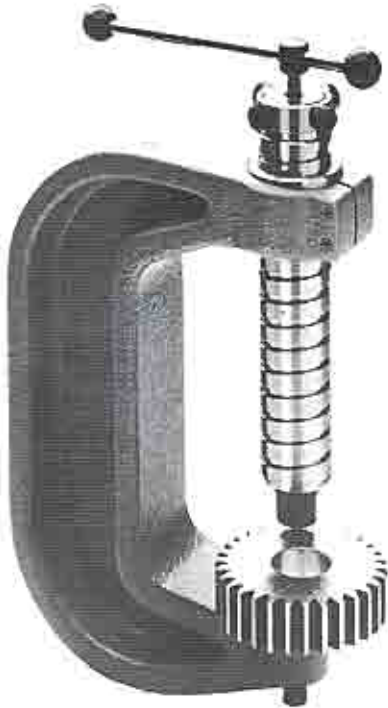
PORTABLE HARDNESS TESTER FOR BR

Composition "A"

Complete static (clamp) and impact (hammer) version

STANDARD ACCESSORIES

Wooden box with:
 Indenter/Clamp for static testing/ Sleeve for impact testing/
 Magnifying glass in leather case/ Flat anvil $\varnothing 20$ mm/ V-anvil for
 rounded pieces/ Test plate /Flat anvil $\varnothing 40$ mm/ Set of wrenches/
 250 calibrated pins/Table and instruction for use
 Total weight: 6.0 Kg - Clamp weight: 3.6 Kg



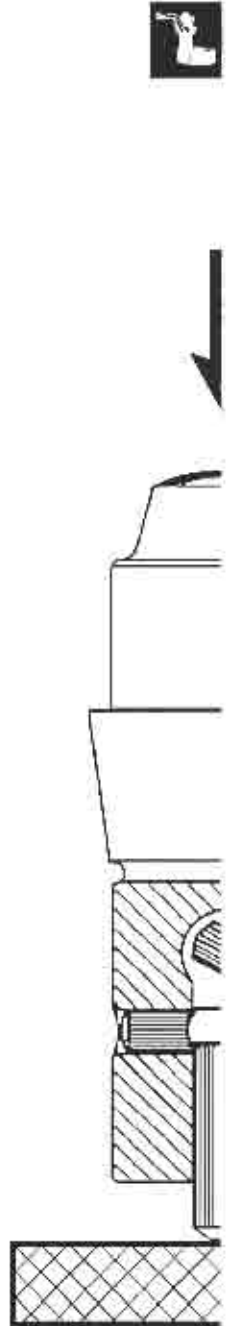
Static system with clamp

- Screw system for immediate load application
- Capacity of the clamp 150 mm
- Total weight: 3.6 Kg

The static system includes also the impact system with hammer



The ERNST calibrated pin system replaces the impact bar system giving a greater versatility and high accuracy. The indentations can be made very quickly even by an unskilled operator. The indentation can be read immediately, or at a later time by an inspector. Due to the fact that with the calibrated pin system only one reading of indentation on the piece to be tested is necessary, error possibilities are cut by 50% as compared to the impact bar system. The comparison errors are eliminated and the resulting accuracy is comparable to the bench hardness testers.



Patented in the
 countries of

TE

BRINELL TESTING FROM 100 TO 700 HB



Composition "B"

Impact (hammer) version only

STANDARD ACCESSORIES

Wooden box with:

Indenter/Sleeve for impact testing/Up holding key/Magnifying glass in leather case/250 calibrated pins.

When requested by the customer, calibrated pins are available in bags of 250 pins each.



Working principle

(Patented in the most important countries of the world)

The accuracy and the consistency of the STE hardness tester is due to the original principle of the loading system.

The assembled system HOLDER, PIN and INDENTER, is the same for the static system (STE/A) and the impact (STE/B).

The applied force causes penetration of the indenter into the surface with a load determined by the calibrated pin, which breaks at 1580 kp.

Readout charts are provided with each bag of pins to assure proper correlation between load applied and impression diameter.

The value of Brinell hardness is obtained by reading the diameter of indentation on charts provided with each bag of pins.

Impact system

Easy to use

Pins and indenter interchangeable with the static system

Works in narrow spaces and in all positions

Tests pieces of all shapes and sizes

Loading independent of operator, as it is always determined by the breaking of the calibrated pin (1580 kp).



most important
of the world

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Calibrated pins

Bags of 250 calibrated pins each, with Brinell hardness reading table and working instructions for the hardness tester. The pins are divided in different classes with control certificate.



Bench support

Allows quick lock of the clamp for static testing. Ideal for testing small and medium size pieces. Turns the portable instrument into a small bench tester.



Illuminated microscope

Delivered in wooden box, works with battery system. Adjustment for focusing of the test surface and the measuring scale. For specimen with a hardness over 280 HB we recommend the use of a 20 X microscope, for indentations made with hard metal indenter, (over 350 HB) we recommend 40 X microscope.



Carbide indenter

Allows hardness testing between 400 and 700 HB (65 HRC)