

PORTABLE HARDNESS TESTER "INSTRUMATIC"™

A fully mechanical instrument of the highest precision, robust, and free from normal maintenance

The large clearly marked dials on these unique instruments cover a full range of hardness values in Vickers, Brinell, Rockwell A, B, C, and Kp/mm² covering the British, American and German specifications

The Instrument

The system is entirely mechanical employing the use of special pre-loaded springs which provide a load of about 15kg to the diamond. Maximum penetration of the diamond into the specimen is 0.125mm (.005").

Operation and Use

The simplicity of the tester enables it to be used in almost any direction, (preferably vertically), without affecting accuracy. It can be used 'on site' with complete success. The grips are depressed to the fullest extent by using the palms of the hands and the hardness value can be read off the appropriate scale. Repeatability is excellent and the calibration can be checked by the user against a reference test block supplied with each instrument. Each tester is supplied complete in a case with detailed operating instructions.

Diamond Indentor

The instrument does not require any regular servicing. Should the diamond indentor become damaged, a new indentor can simply be fitted using the small tool supplied with the instrument.

Bench Stand

Bench stand with vee base for round parts, available as an option.

Magnetic Holder

A magnetic holder is available for checking the hardness of large ferrous finished surfaces such as lathe beds, milling machine tables and large surfaces which cannot be easily checked by hand.



Technical specifications

Code No.		Scale	Range
POR0001	No 1	Vickers Pyramid Brinell Rockwell C	100 - 1000 100 - 500 20 - 70
POR0002	No 2	Rockwell A Rockwell B Rockwell C	40 - 85 50 - 100 20 - 70
POR0003	No 3	Vickers Pyramid Brinell Rockwell B Rockwell C	100 - 1000 100 - 400 50 - 99 20 - 70
POR0004	No 4	kg/mm ² Brinell Rockwell B Rockwell C	35 - 140 100 - 400 50 - 99 20 - 70
POR0005	No 5	Vickers Pyramid Brinell	40 - 300 40 - 300
POR0006	No 6	Brinell Vickers Pyramid	40 - 300 40 - 300
POR0007	No 7	Brinell	100 - 600
POR0008	No 8	Vickers Pyramid	20 - 106
PBS0001	Precision Bench Stand		

Standard delivery

- Main unit
- UKAS certified test block
- Case
- Adjusting keys
- CV Instruments certificate
- Manual

Optional accessories

- Bench stand
- Magnetic holder
- Spare diamond indentor