



No deflection or vibration

Large and irregular components can be clamped

Fast and precise one lever operation, pre-load and load are applied together

Clear, direct read-out of Rockwell hardness and Brinell hardness

RS 232 output for printer or computer

Hardness tester Rockwell principle

# AT 130 D • Hardness tester Rockwell principle



### AT 130 D

#### Mechanics

Even operating following the Rockwell principle according to DIN and ASTM in **AT 130 D** series, measuring is not influenced by deflections.

The reference point is the surface of the component itself. Surface preparation is needed only where measuring takes place.

With an easy movement of the lever pre-load and load are applied. With the return movement, load is taken away, and reading is made.

Measuring takes no more than 3 seconds (a few seconds more for very soft materials).

## This system has several advantages:

- It clamps difficult shaped and overhanging pieces firmly to the clamping cap.
- Fast batch testing, components can be loaded on the anvil without moving the handwheel.

Two types of test heads AT 130 D (Rockwell and Superficial Rockwell) and four types of stand complete the range.

 Possibility to carry out testing according to standards on components of large dimension (see picture).



#### AT 130 DR/T (1)

Measuring on components of large dimensions is possible. In this case the indentor has an extension of 50 mm. The base assembly has been removed. The base is of 240 x 330 mm.

#### AT 130 DR/T (2)

Measuring on bottles. In AT 130 D series measuring is not influenced by deflections.





#### Electronics

The electronic part of the hardness tester AT 130 D is based on a PIC microprocessor. Serial RS 232 output ports for printer or computer. In batch testing tolerances can be setted with light signals on the control board. Calibration of every single scale can be carried out independently.



# Technical data

#### Test head AT 130 DR

Pre-load: 10 kp (98 N)

Rockwell loads: 60 kp (588 N)

100 kp (980 N) - 150 kp (1471 N)

Brinell loads: 62.5 kp (612 N)

- 125 kp (1226 N) - 187.5 kp (1839 N)

Scales to select: HRA - HRB - HRC - HRD - HRF

- HRG - HRH - HRE - HRK - Brinell HB 30

Other scales on request; HB 5 - HB 10

kp/mm² - N/mm² - Vickers

#### Test head AT 130 DSR

Pre-load: 3 kp (29.4 N) Rockwell loads: 15 kp (147 N) - 30 kp (294 N) - 45 kp (441 N)

Brinell loads: 10 kp (98 N) 15.6 kp (153 N) - 31.2 kp (306 N)

Scales to select: HR15N - HR30N HR45N - HR15T - HR30T - HR45T

HR15W - HR30W - HR45W

Other scales on request: HB 5 - HB 10 - Vickers

# Accessories standard

In polished wooden box

Rockwell conical diamond indentor \* Rockwell ball indentor 1/16 \*

Brinell ball indentor 2.5 mm

Rockwell test block ' Brinell test block

Flat anvil ø 60 mm '

Flat anvil ø 10 mm '

Large V-anvil \*

Small V-anvil \*

Plastic cover \*

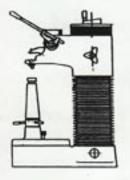
Spare balls

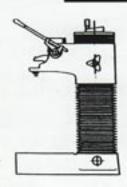
\* AT 130 DSR Rockwell Superficial

# Accessories on request

Flat anvil ø 200 mm V-anvil for rounds ø 200 mm Rockwell ball indentors 1/8" - 1/4" - 1/2" Brinell ball indentors 5 mm C-form extension for measuring internal parts (See accessories catalogue code nº 801 - 120EN01)

# Four stands available









- Depth: 220 mm
- · Height: 215 mm
- · Weight: 53 kg
- Dimensions: base 200 x 520 mm height 620 mm
- Standard equipment: 4 anvils, 1 clamping cap, 1 cover



#### STAND CAR mobile

- Depth: 300 mm
- · Height: 750 mm
- · Weight: 140 kg
- · Dimensions: base 400 x 970 mm height 1350 mm
- · Standard equipment: 1 clamping cap, 1 cover



#### STAND MUR wall mounting

- Depth: 300 mm
- · Vertical adjustment: 550 mm
- · Weight: 140 kg
- · Dimensions:
- 200 x 700 x 1050 mm
- · Standard equipment: 1 clamping cap, 1 cover

# · Weight 87 kg

Depth: 220 mm

Height: 270 mm

- . Dimensions: base 240 x 560 mm height 875 mm
- · Longer columns can be supplied on request
- Standard equipment: 4 anvils, 1 clamping cap, 1 cover

STAND T

the most versatile

Depth: 220 mm

Height: 420 mm

on request)

(standard) (+100+300+500

