



The model 150 PLAST, is based on the Rockwell principle. It is recommended for testing plastic and thermosetting materials, according to UNI 4278 and ASTM D 785. The instrument can test hardened steel bronze and other metals in Rockwell scales. The depth penetration has been enlarged when compared with the other hardness testers and the Rockwell scale has been amplified and denominated ROCKWELL ALPHA.

It utilises a spiral on a delicate mechanic comparator and it is divided in 100 negative ALPHA points for testing soft materials; 150 positive ALPHA points; 25 points for testing the elastic deflection of the frame and the usual 130 Rockwell B points.

- The preload of 10 Kg is applied by the contact penetrator.
- Manual zero setting obtained by turning the dial gauge.
- Test load applied and removed by a lateral lever.
- Direct reading on the comparator.

The hardness tester 150 PLAST is provided with a variable load device and by combining the various indenters the following tests can be realised:

Rockwell scale	Indenter	(force Kg)	force N
HRB	ball Ø 1/16"	100	980
HRF	ball Ø 1/16"	60	588
HRE	ball Ø 1/8"	100	980
HRH	ball Ø 1/8"	60	588
HRL	ball Ø 1/4"	60	588
HRM	ball Ø 1/4"	100	980
HRR	ball Ø 1/2"	60	588
HRS	ball Ø 1/2"	100	980
HR α	ball Ø 1/2"	60	588

Technical characteristics

Preload	(10 kgf) 98.07 N
Test loads	(60-100 kgf) 588-980 N
Comparator	Mechanic with Rockwell and Rockwell ALPHA scale
Zero setting	Manual
Feasible tests	Rockwell (EN-ISO 6508) / ASTM D 785 Brinell (EN-ISO 6506)
Height capacity	100 mm
Depth capacity	190 mm
Reading resolution	0.5 HR
Net weight	75 kg
Packing weight	90 kg
Packing measurements	37x60x102 cm

Applicable accessories

Standard

- 1 ball indenter Ø 1/16"
- 1 ball indenter Ø 1/8"
- 1 ball indenter Ø 1/4"
- 1 ball indenter Ø 1/2"
- 1 HRB test block
- 1 Plane anvil
- 1 Dust cover
- 1 Wooden case
- 1 Instruction sheet
- 1 Rockwell ALPHA comparator

On request

- Vickers indenter 136°
- Rockwell indenter 120°

