

UNIVERSAL HARDNESS DIGI-TESTOR 930/250N™

Motorized tester with digital display for Rockwell, Brinell and Vickers

The new enlarged (100x75mm) user friendly TESTOR® PANEL shows hardness values for all hardness test procedures. New user friendly software. 99 different test programs for all hardness scales. Very user-friendly because of a high degree of automation and low training requirements, such as setting up test programs with preset test parameters, easy access to all testing programs. Shape correction according to ISO standards. Possibility to store 20 Batch files with 50 measuring results each. Rockwell, Vickers and Brinell testing procedures combined in one machine. Zeiss optical system with bright screen 135mm diameter ensures high precision measurements. Magnification by objective lenses from 20x to 140x. Conforms to DIN-EN-ISO 6506,6507, 6508, ASTM and JIS. Automatic swivel system of test axis between indenter and optics. Wide test load range up to 250kgf. High quality elevating spindle with precision guide bushing to eliminate back-lash. RS232 serial data output interface. High-tech closed loop system to eliminate overshoot. Fully automatic controlled test cycle. Provides Superficial Rockwell scales as well.

TECHNICAL SPECIFICATIONS

930/250N DigiTestor

Hardness scales	Brinell, Vickers, Rockwell, Super-Rockwell, Brinell depth, Vickers depth
Optics	High precision optics, screen diameter 135mm
Objectives	Interchangeable 20x - 44x - 70x - 140x - magnification
Scale resolution	Incremental scale / better than 1 micron
Display	Integrated hardness calculator, determination of hardness values for all procedures, statistics functions, data transfer
Standards Conform to	DIN-EN-ISO6506, 6507, 6508, ASTM and JIS
Test load type	Closed loop control system
Test cycle	Automatic
Test loads	Brinell 1* - 5 - 10 - 15,625 - 30 - 31,25 - 62,5 - 125 - 187,5 - 250 kg Vickers 1* - 3* - 5 - 10 - 20 - 30 - 40 - 50 - 100 kg Rockwell 15 - 30 - 45 - 60 - 100 - 150 kg (3 & 10 kg pre-load)
Vickers test procedures	HV and HVT 1 - 2 - 3 - 5 - 10 - 20 - 30 - 50 - 100
Brinell test procedures	HB1/: 1 - 2,5 - 5 - 10 - 30 HB2,5/: 6,25 - 15,625 - 31,25 - 62,5 - 187,5 HB5/: 31,25 - 62,5 - 125 - 250 HB10/: 100 - 250 HBT2,5/: 62,5 - 187,5 HBT5/250
Rockwell test procedures	A - B - C - D - E - F - G - H - K - L - M - P - R - S - V - Bm - Fm - Ralpha 15N - 30N - 45N - 15T - 30T - 45T - 15W - 30W - 45W - 15X - 30X 45X - 15Y - 30Y - 45Y - 30 TM - HMR 5/25
Indenter types optional	Brinell Ball 1 - 2.5 - 5 - 10mm Vickers Diamond cone 136° Rockwell Diamond cone 120°, Ball 1/16" - 1/8" - 1/4" - 1/2"
Load duration	0,1- 255 sec
Data output	RS232 serial interface (to printer or pc)
Specimen accommodation	Maximum test height 300mm, maximum throat 150mm
Specimen access	External surfaces,
Cylindrica lsurfaces	Down to 3mm diameter
Power supply	220V / 50Hz (110V on request)
Machine dimensions	Width 250mm, depth 567mm, height 1018mm
Machine net weight	200kg

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Accessories

Check with your WOLPERT agent for specified packages included with the hardness tester as standard delivery.

*Check latest accessories update on:
www.wolpertgroup.com*

Spring-mounted clamping attachment to hold test parts during testing

Objective 20x magnification

Objective 44x magnification

Objective 70x magnification

Objective 140x magnification (standard)

Objective 250x magnification

Indenter Rockwell diamond

Indenter Rockwell with carbide or steel ball 1/16" - 1/8" - 1/4"

Indenter Brinell with carbide ball 1 - 2,5 - 5 - 10mm

Indenter Vickers diamond

Testing table diam 80mm

Testing table diam 235mm

V-anvil 1-4mm

V-anvil 3-10mm

V-anvil 7-20mm

V-anvil 15-45mm

V-anvil 20-60mm

V-anvil 60-150mm

Table with magnetic insert

Table with anvil for point support

Table with diamond for point support

Ball-mounted testing table diameter 80mm

Vice, opening 0-80mm

XY stage manual

XY stage manual, swivelling

Blind shield (to improve visibility of optical reading)

Halogen lamp 12V, 50W

Spindle protection tube

Steel cabinet with wooden table

Device for vibration-damped erection

Dust protection cover

Thermal printer including data-cable

Printer paper rolls

Printer cable

SPC Software via RS-232

Interface cable for pc

Object micrometer with test certificate

Hardness reference blocks with certificate

DKD / UKAS / NIST / WOLPERT WORKS

