

NEXUS 7700

UNIVERSAL HARDNESS TESTER



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The traditional swivel system (indenter/objective) universal hardness tester previously equipped with a matt screen, nowadays has a modern video indent measuring system with 18 Megapixels camera, an ultra-fast Windows i7 controller, automatic measurement and can be used for all hardness procedures; Brinell, Vickers, Knoop, HVT and HBT according to DIN, ISO standards.

The NEXUS 7700 also covers all Rockwell and Superficial Rockwell hardness scales. The tester can be equipped with an automatic motorized spindle which makes it possible to position your workpiece without any effort. In combination with a manual or motorized CNC XY-stage the tester offers the option of running case depth hardness programs, pre-defined testing patterns and/or other specific or special tasks defined by the user.

Perfectly suitable for testing hardness of castings and forgings, wide application within the automotive and aerospace industry or laboratory and workshop testing.

HIGHLIGHTS :

SCALES	Rockwell, Superficial Rockwell, Brinell, Vickers, Knoop.
TEST FORCES	1 kgf – 250 kgf.
CAMERA	18 Megapixels, Full HD camera system, with zoom and autofocus.
LOAD APP. SYSTEM	Fully automatic, Load cell, closed loop, force feedback.
CONTROL	Fully integrated Windows Controller, SSD hard disk, Windows 10 operated, IMPRESSION advanced workflow software, includes automatic measurement, keyboard & mouse.
DISPLAY	12" full color touch screen.
ADVANCED OUTPUT	Multi USB, CSV files, single readings, reports, printer, Q-DAS certified.
SOFTWARE	No. of tests, Mean, St. Deviation, Min., Max., Range, CP, CPk, individual readings list, storage memory, Dwell time, test force setting, scale selection, calibration etc.
ILLUMINATION	Adjustable workpiece illumination.
SPINDLE	Manual or motorized.
CLAMP	Clamp to protect indenter and fix workpiece to anvil or stage.
XY-STAGE	Manual, motorized stages or/and anvils or work tables at choice.
WORKPIECE ACC.	340mm(H) X 205mm (D).



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