

# NEXUS 7000 CCD

Universal hardness testing system





Including workpiece clamping attachment

Industrial touch screen, embedded high performance PC + two solid state HD drives

Automatic indent measurement with ZOOM function

IMPRESSIONS™ advanced hardness testing software, includes file storage, test program storage, machine settings storage, etc.

Bright LED illumination (ringlight optional)

High precision spindle

Connectivity USB, RS232, UTP-R45-LAN, W-LAN

**NEXUS 7000 CCD**

UNIVERSAL HARDNESS TESTER WITH VIDEO INDENT MEASURING SYSTEM

**FEATURES**

The NEXUS 7000 CCD universal hardness tester is based on the successful NEXUS 7000 load cell closed loop concept with indenter/objective swivel system. Many of these testers have been installed worldwide. The success of the NEXUS 7000 concept now continuous in the new NEXUS 7000 CCD.

The NEXUS 7000 CCD is a hardness tester for all hardness procedures according to standards. Rockwell, Super Rockwell, Brinell, Vickers and Knoop. But it also can do ball and indentation hardness testing for thermo plastics and the new Vickers depth (HVT) and Brinell depth (HBT) procedures.

The load range goes from 1 to 250kgf (optional from 0,5kgf). All procedures complying to EN/DIN/ISO, ASTM and JIS.

The new user interface IMPRESSIONS 2011 guarantees hassle free tester operation with a minimum on training time. IMPRESSIONS 2011 allows you to operate the testers main functions but also incorporates advanced algorithms for automatic impression detection and hardness measurement.

## TECHNICAL SPECIFICATIONS

Hardness scales	Brinell, Vickers, Rockwell, Super-Rockwell, Knoop, Vickers depth (HVT), Brinell depth (HBT), Plastic.
Optical	5 mega-pixel HD camera, indent zoom function
Display	High resolution industrial LCD touch screen Optional: desk top LCD screen Optional: desk top LCD touch screen Optional: Height adjustable LCD touch screen
CPU	Embedded high performance PC with 2 solid state HD drives Optional: External high performance PC
Firmware	IMPRESSIONS 2011, advanced hardness testing software including options for: manual measurement, automatic measurement, indent zoom function, scale conversion, file storage, report printing, test program storage, machine settings storage, graphic interface for swivel system position.
Standards	Conforms to ISO 6506, 6507, 6508, 4545, ASTM E18, E92, E10 & JIS
Test load type	Loadcell closed loop, force feedback system
Test cycle	Automatic and indent evaluation
Test loads	(0,5*) 1, 3, 5, 10, 15, 15.625, 20, 30, 31.25, 50, 60, 62.5, 100, 125, 150, 187.5, 250 kgf (*optional)
Brinell test procedures	HB1 1, 2.5, 5, 10, 30 HB2.5: 6.25, 15.625, 31.25, 62.5, 187.5 HB5: 25, 62.5, 125, 250 HB10: 100, 250
Vickers test procedures	HV (0,5*) 1, 2, 3, 5, 10, 20, 30, 50, 100 (*optional)
Rockwell test procedures	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V, Bm, Fm, 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y, 30 TM, HMR 5/25
Indenter types (included)	Brinell Balls: 1, 2.5, 5, 10 mm Vickers Diamond: 136° Rockwell Diamond Cone: 120° Balls: 1/16 in, 1/8 in, 1/4 in, 1/2 in
Load duration	0.1 - 255 seconds
Connectivity	USB-2(6) RS-232, UTP RJ45, LAN, W-LAN
Specimen accommodation	Maximum test height 300 mm, maximum throat 200 mm
Specimen access	External surfaces, internal surfaces with goose neck adapter (optional)
Machine dimensions	620mm x 250mm x 900mm (L x W x H)
Machine net weight	200 kg
Power supply	230V / 50Hz (other voltages and frequencies on request)
Guarantee	2 years limited guarantee

## STANDARD DELIVERY

- Diamond Rockwell indenter
- Vickers indenter
- Brinell indenter 2.5mm
- Hardness test block HRA
- Hardness test block HRC
- Hardness test block HRB
- Hardness test block HV30
- Hardness test block HB2.5/187.5
- Objective for 70x magnification
- Objective for 140x magnification
- Clamping protection nose
- Testing table ø80mm
- Power cable
- Installation & user manual
- INNOVATEST® certificate

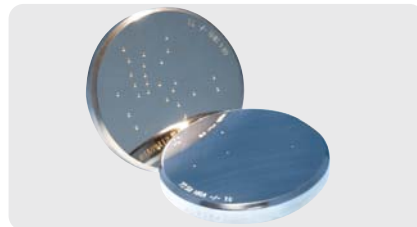
## OPTIONAL ACCESSORIES

- Objectives for 10x, 20x, 44x magnification
- Testing table ø150mm
- Testing table ø235mm
- V-Anvil ø80mm
- V-Anvil ø120mm
- Certified indentors & hardness test blocks
- Long Vickers indenter
- Other testing tables and XY-stages
- Precision vices, V-blocks and special clamps
- Software solutions for advanced applications

## ORDER DETAILS

### NEXUS 7000 CCD

Universal hardness tester with video indent measuring system



Represented by:

INT1-259

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