

NEXUS 610RS/RSB

Rockwell / Brinell Hardness Testers





ROCKWELL/BRINELL HARDNESS TESTERS

NEXUS 610RS/RSB



NEXUS 610RS/RSB 2.5KGF/24.5N TO 187.5KGF/1838N, DEPENDING ON MODEL



The NEXUS 610 series are a new generation of hardness testing instruments. The testers main body is a fine casted rigid structure which incorporates a load cell, closed loop force actuator that provides continuous force feedback information to the advanced electronics set.

The system avoids "overshoot" during the test force application and guarantees the one of the best GR & R results ever seen on Rockwell/Brinell hardness testers in this class. The tester meets or exceeds the ISO, ASTM and JIS standards. (ISO 6508, ISO 2039/1, ASTM E18, ASTM B254, JIS Z2245)

Test forces range from 2.5kgf/24.5N to 150kgf/1471N, Advanced algorithms, digital filter technology and state of the art electronics provide a very reliable and robust Rockwell hardness tester.

The test cycle can be as little as 15 seconds (at a dwell time of 10 seconds).

NEXUS stands for Next Generation.

The 610RS model allows to perform hardness tests in all Rockwell and Superficial Rockwell scales.

The 610RSB model adds the Brinell scales between 2.5kgf/24.5N to 187.5kgf/1838N additional to the Rockwell and Superficial Rockwell scales.

Models **RSB** are supplied with a separate Brinell measuring microscope which offers Brinell optical testing up to 187.5kgf/1838N. After keying in the indent diameter, hardness values are instantly displayed on the LCD screen.

FEATURES

- Load cell, force feedback, closed loop system
- High performance embedded fanless micro PC
- MS Windows embedded operating system
- Excellent accuracy
- Unmatched GR & R results in its class
- Load range 2.5kgf/24.5N up to 187.5kgf/1838N (depending on model)
- Fully automatic operation
- Meets or exceeds ISO, ASTM and JIS standards
- Shape correction settings for curved surfaces
- Go/No Go function with visual and acoustic warning
- Large memory for measurements with statistic results
- Easy calibration function
- Testing program storage
- Testing value storage
- Standard workpiece clamping attachment
- Printer & USB (3x), RJ45-LAN, W-LAN (optional),
 Wi-Fi onboard (Optional), Bluetooth (Optional) output
- Wireless mouse and keyboard
- External Brinell microscope (RSB model)
- Large workpiece accommodation
- Firmware service over internet "INNOVATEST Team Viewer" pre-installed





ROCKWELL/BRINELL HARDNESS TESTERS

NEXUS 610RS/RSB

| TECHNICAL SPECIFICATI | ONS |
|---------------------------------|--|
| | |
| Hardness scales RS | Rockwell and Superficial Rockwell all scales |
| Hardness scales RSB | Rockwell and Superficial Rockwell and all Brinell scales (2.5kgf/24.5N to 187.5kgf/1838N |
| Load application | Load cell, force feedback, closed loop system |
| Rockwell Pre load | 3kgf and 10kgf |
| Rockwell main load | 15kgf, 30kgf, 45kgf, 60kgf, 100kgf, 150kgf |
| Rockwell test scales | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V |
| Superficial Rockwell scales | 15N, 30N, 45N, 15T, 30T, 45T, |
| · | 15W, 30W, 45W, 15X, 30X, 45X, |
| | 15Y, 30Y, 45Y |
| Brinell test load (RSB model) | 2.5kgf/24.5N to 187.5kgf/1838N |
| Brinell test scales (RSB model) | HB1: 2.5kgf/24.5N, 5kgf/49N, 10kgf/98N, 30kgf/295N |
| | HB 2.5: 6.25kgf/61.29N, 15.625kgf/153.2N, 31.25kgf/306.45N, |
| | 62.5kgf/612N, 187.5kgf/1838N |
| | HB5: 25kgf/245.16N, 62.5kgf/612N, 125kgf/1225N |
| | HB10: 100kgf/980.7N |
| Operating system | MS Windows® Embedded , INNOVATEST IMPRESSIONS LT, |
| | 64Gb SSD harddrive for data storage |
| Display | 6.5" full color industrial touch screen, testing results, statistics, |
| | can also be operated by mouse and keyboard |
| Display overview | Conversion to other hardness scales such as Brinell, Vickers, Leeb, UTM. |
| .L =\ -1. = | convex, concave adjustment, machine settings, calibration |
| Standards | Meets or exceeds ISO, ASTM, JIS standards |
| Test cycles | Motorized, fully automatic, Pre load, Load, Dwell, Unload process |
| Indentors | Rockwell Diamond Cone: 120° |
| admore | Rockwell balls: 1/16", 1/8", 1/4", 1/2" |
| | Brinell Balls: 1mm, 2.5mm, 5mm, 10mm |
| Dwell time | Pre-load 1-99 seconds, |
| | Main load 1-99 seconds, |
| | Recovery 1-99 seconds |
| Connectivity | USB-2 (3x), converter to RS-232, LAN RJ45, WLAN (Optional), |
| Commenting | Wi-Fi onboard (Optional), Bluetooth (Optional) |
| Service connection | Firmware service over internet "INNOVATEST Team Viewer" pre-installed |
| Printer | Any MS Windows® supported printer |
| | Brinell microscope |
| Optical system RSB | Vertical capacity 250mm |
| Workpiece accommodation | |
| O | Horizontal capacity 165mm (from indentor center-line) |
| Operating temperature | 10°C to 35°C, non-condensing |
| Machine dimensions | 250mm x 505mm x 745mm (WxDxH) |
| Machine weight | 82kg |
| Power supply | 100V AC to 240V AC, 50Hz/60Hz, single phase |



STANDARD DELIVERY

- Rockwell C Indentor
- Rockwell B Indentor
- Brinell ball indentors
 1mm, 2.5mm, 5mm, 10mm (RSB)
- V-anvil
- Flat anvil 60mm
- Round testing table 150mm
- Brinell microscope (RSB)
- Power cable
- Four adjustable feet
- INNOVATEST® certificate
- Installation and user manual
- Pre-installed (plug and play)

OPTIONAL ACCESSORIES

- Factory indentors
- Certified indentors (UKAS, DKD, ASTM)
- Factory reference hardness blocks
- Certified reference hardness blocks (UKAS, DKD, ASTM)
- Custom testing tables
- Precision vice for small parts, jaw width 36mm
- Precision vice for small parts, jaw width 42mm
- Precision vice for small parts, jaw width 75mm
- Wireless mouse and keyboard
- V-blocks and special clamps
- Manual X-Y stage 100mm x 60mm, micrometer travel 25mm x 25 mm
- Solid tester table and storage cabinet







ORDER DETAILS

NEXUS 610RS Rockwell, Superficial Rockwell all scales

test forces 3kgf/29.4N to 150kgf/1471N

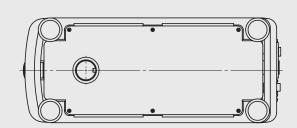
NEXUS 610RSB Rockwell, Superficial Rockwell, Brinell all scales

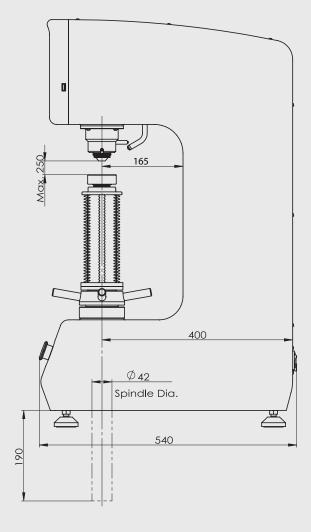
test forces 2.5kgf/24.5N to 187.5kgf/1838N (for Brinell)



ROCKWELL/BRINELL HARDNESS TESTERS

TECHNICAL DRAWING

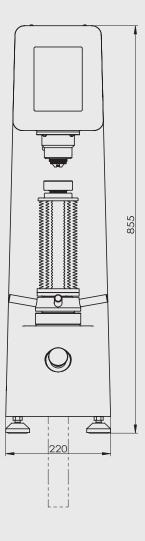




All dimensions are in mm



TECHNICAL DRAWING



All dimensions are in mm

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