SC METROMAT SRL

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Durimetrul stationar Nexus 605 RS

NEXUS 605RS/RSB
Rockwell/Brinell hardness tester



General information

The NEXUS 605 models 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.
The load application system avoids "overshoot" during the test force application and guarantees 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, ASTM E18, ASTM B254, JIS Z2245)

Test forces range from 2.5kgf/24.5N to 187.5kgf/1838N, Advanced algorithms, digital filter technology and state of the art electronics provide a very reliable and robust Rockwell hardness tester.
NEXUS stands for Next Generation.

The unique machine design allows Rockwell, Superficial Rockwell and Brinell load settings.
The NEXUS 605 RS/RSB model makes it possible to perform hardness tests in Rockwell and Superficial Rockwell scales and optionally (601RSB) can provide Brinell hardness testing.
Models RSB are supplied with a separate Brinell measuring microscope.

Features

- Load cell, force feedback, closed loop system
- Excellent accuracy, best in class GR & R
- 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 color full visual and acoustic warning
- Large memory for test results storage
- Easy calibration function
- Testing program storage
- Standard workpiece clamping attachment
- Connectivity USB-2
- External Brinell microscope (RSB model)
- Large workpiece accommodation

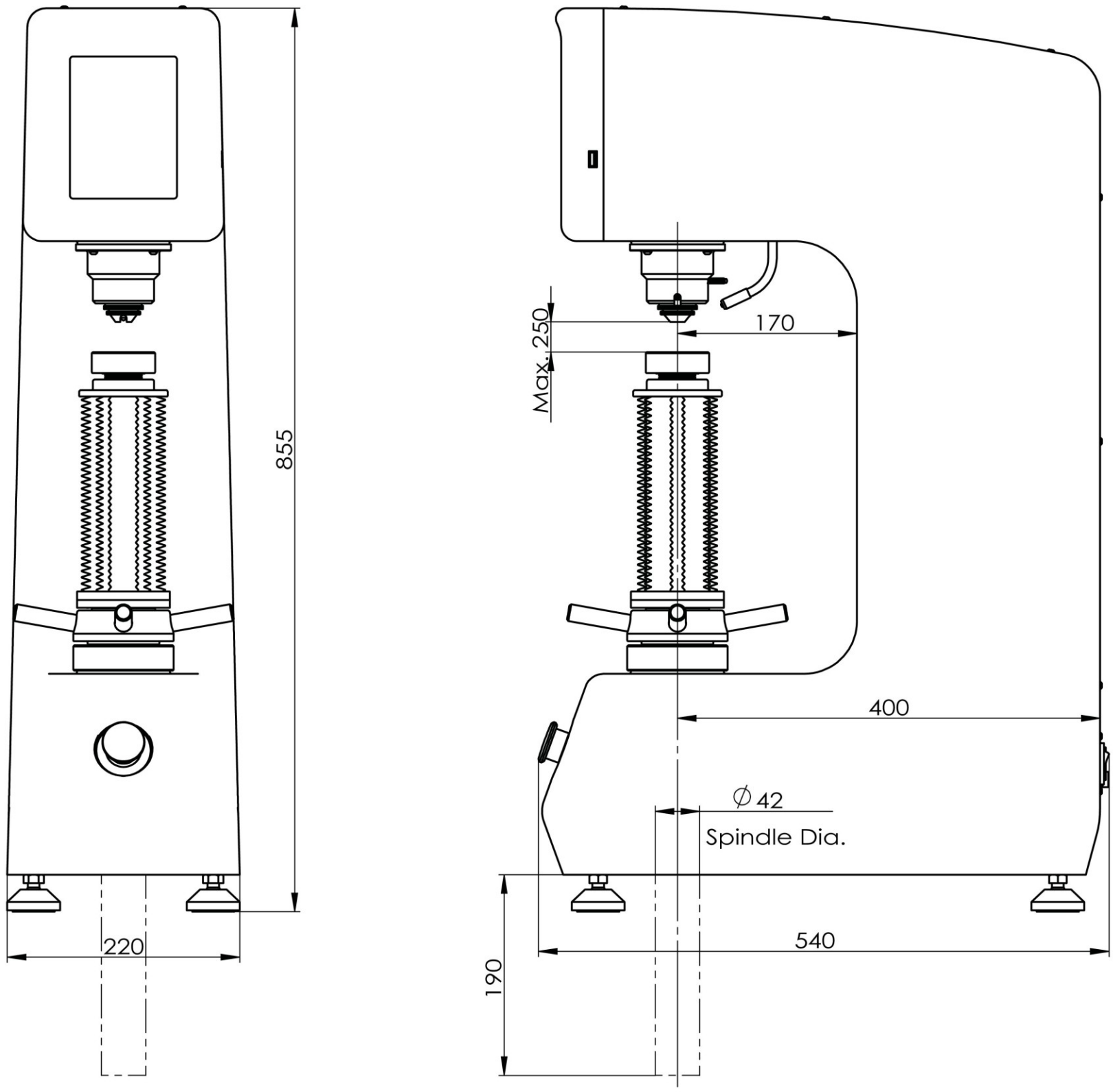
Technical specifications

NEXUS 605RS/RSB

Hardness scales RS	Rockwell and Superficial Rockwell all scales
Hardness scales RSB	Rockwell, 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	DRI-II
Display	Full color multi-function 6,5" industrial touch screen
Display overview	Conversion to other hardness scales such as Brinell, Vickers, Leeb, UTM. 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° Rockwell balls: 1/16", 1/8", 1/4", 1/2" Rockwell balls: 1/16", 1/8", 1/4", 1/2"
Dwell time	Brinell Balls: 1mm, 2.5mm, 5mm, 10mm Pre-load 1-99 seconds, Main load 1-99 seconds, Recovery 1-99 seconds
Connectivity	USB-2
Optical system RSB	Brinell microscope
Workpiece accommodation	Vertical capacity 250mm Horizontal capacity 170mm (from indentor center-line)
Operating temperature	10°C to 35°C, non-condensing
Machine dimensions	220mm x 540mm x 855mm (WxDxH)
Machine weight	82kg
Power supply	100V AC to 240V AC, 50Hz/60Hz, single phase

Technical drawing NEXUS 605RS/RSB

All dimensions are in mm



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