



BOWERS GROUP



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BOWERS GROUP

Rockwell / Brinell Hardness Tester ROCKMATIC RS/RSB



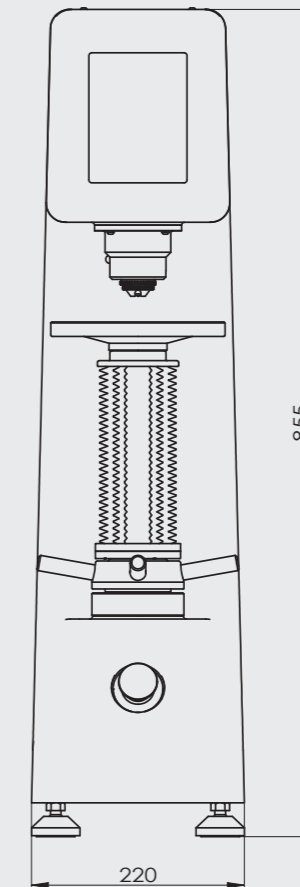
Partners in Precision

ROCKMATIC ROCKWELL/BRINELL HARDNESS TESTERS



ROCKMATIC RS/RSB
2.5KGF/24.5N TO 187.5KGF/1838KN, DEPENDING ON MODEL

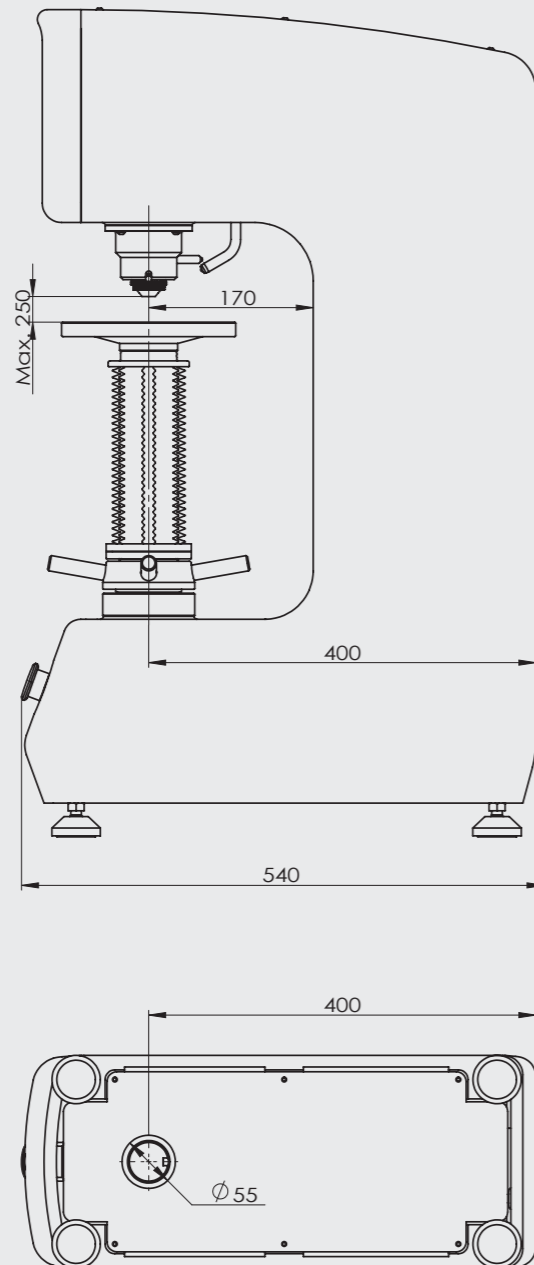
TECHNICAL DRAWING



All dimensions are in mm

ROCKMATIC ROCKWELL/BRINELL HARDNESS TESTERS

TECHNICAL DRAWING



All dimensions are in mm

The ROCKMATIC is a new generation of hardness testing machine. The testers main body is a rugged casting which incorporates a load cell, closed loop force actuator that provides continuous force feedback information to the advanced electronics.

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.

Test forces range from 2.5kgf/24.5N to 150kgf/1471kN, 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).

The ROCKMATIC RS model performs hardness tests in all Rockwell and Superficial Rockwell scales. The ROCKMATIC RSB 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
- 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
- External Brinell microscope (RSB model)
- Large workpiece accommodation



ROCKMATIC ROCKWELL/BRINELL HARDNESS TESTERS

TECHNICAL SPECIFICATIONS

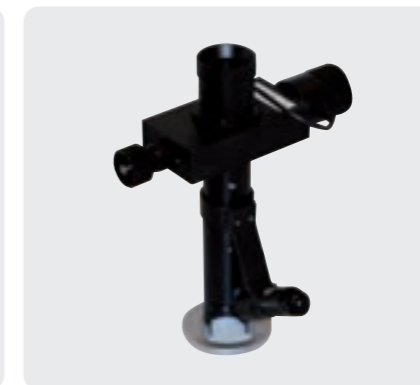
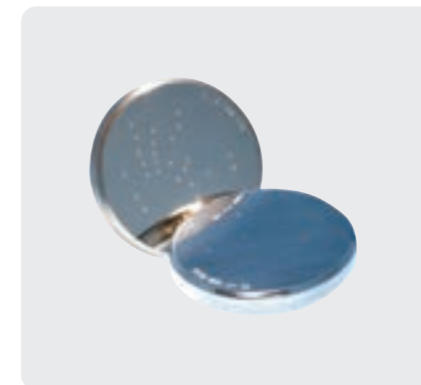
Hardness scales RS	Rockwell and Superficial Rockwell all scales	
Hardness scales RSB	Rockwell and Superficial Rockwell and all Brinell scales (2.5kgf/24.5N to 187.5kgf/1838N)	
Load application	Load cell, force feedback, closed loop system	
Rockwell Pre load	3kgf and 10kgf	
Rockwell main load	15kgf, 30kgf, 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
Display	6.5" full color industrial touch screen, testing results, statistics,	
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"
	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	
Optical system RSB	Brinell microscope	
Workpiece accommodation	Vertical capacity	250mm
	Horizontal capacity	175mm (from indenter 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
- Quality certificate
- Installation and user manual
- Pre-installed (plug and play)

OPTIONAL ACCESSORIES

- Factory indentors
- Certified indentors (UKAS)
- Factory reference hardness blocks
- Certified reference hardness blocks (UKAS)
- 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
- V-blocks and special clamps
- Solid tester table and storage cabinet



ORDER DETAILS

ROCKMATIC RS	Rockwell, Superficial Rockwell all scales test forces 3kgf/29.4N to 150kgf/1471N
ROCKMATIC	Rockwell, Superficial Rockwell, Brinell all scales test forces 2.5kgf/24.5N to 187.5kgf/1838N (for Brinell)