FENIX 200 SERIES

Rockwell | Brinell Hardness Testers

MANUAL & SEMI-AUTOMATIC





FENIX 200AR

Fast & affordable Rockwell testing...

Quality long life mechanics, readings from a precision analogue indicator. Load applied from a dead weight force actuator, with solid test load selector design. The newly designed C frame made out of steel (no casting) provides 100% more rigidity compared to traditional casted designs and assures excellent results, even after years of use.

The internal system can be easily serviced by removing the side and top covers, no need to turn the machine around.





ROCKWELL FORCE RANGE

kgf 10kgf FENIX 200AR 150kgf 187.5kgf

HIGHLIGHTS

- Rockwell scales: A | B | C | D | E | F | G | H | K | L | M | P | R | S | V
- 2 Test loads: pre-load: 10kgf, main-load: 60 | 100 | 150kgf
- 3 Adjustable hydraulic force speed damper
- Adjustable dial indicator with 0.5 HR Rockwell units
- Throat depth: 150mm
- Working height: 260mm
- Rockwell ISO 6508, ASTM E18
- Machine weight (net): 122kg
- Machine dimensions: H765mm / W270mm / D555mm

FENIX 200ACL

Affordable Rockwell testing, re-invented...

A load cell, closed loop, force feedback, test force application system that is absolutely unique in this class of instruments. Limited mechanical structure, without weights or weight selection. Hardness scales can be selected on the digital display. Conduct Rockwell hardness testing with great force precision and without the disadvantage of a relative complex mechanical dead weight system.

The internal system can be serviced by removing the side and top covers, no need to turn the machine around.

10kgf - 187.5kgf

TECHNOLOGY OF TODAY

Dead weight systems

Electronically controlled Force application

Load cell, closed loop,

force feedback system

FORCE





ROCKWELL & BRINELL FORCE RANGE

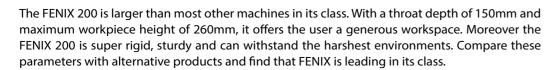
FENIX 200ACL 187.5kgf

HIGHLIGHTS

- Load cell, closed loop, force feedback, force application system, error <0,25%
- Rockwell scales: A | B | C | D | E | F | G | H | K | L | M | P | R | S | V Brinell scales: HBW1/30 | HBW2.5/31.25 | HBW2.5/62.5 | HBW2.5/187.5 HBW5/25 HBW5/62.5 | HBW5/125 | HBW10/100
- Digital display for scale indication, dwell time count down.
- Start/stop & menu selection buttons.
- Adjustable dial indicator with 0.5 HR Rockwell units
- Throat depth: 150mm
- Working height: 260mm
- Machine weight (net): 104kg
- Machine dimensions: H765mm / W270mm / D555mm













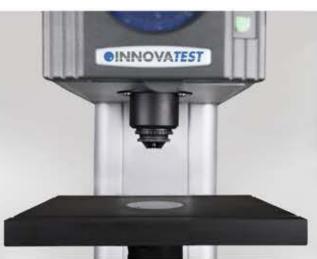
INDENTER COVER & CLAMP

The FENIX 200 series is standard equipped with an indenter protection cover that includes an integrated spring loaded workpiece clamp pressing the workpiece firmly on the anvil and eliminating possible workpiece and spindle hysteresis. Adjustable clamp force, to avoid impressions on softer materials.











SUPPORT YOUR **BEST TESTING RESULTS**

With our rigid designed Bench stands

Rock solid bench stands

100% retractable drawer, bearing guidance, max 100kg load. Rubber anti slip bottom

Lockable cabinet, 300mm high

Adjustable feet, (+/- 50mm height adjustable to reach ergonomic working position)

Made of corrosion resistant zinc plated steel with

RAL powder coating

Carrying capacity of 400kg

Top surface made of 50mm Plywood with 1.5mm chemical resistant plastic plating,

edges made of shock resistant 3mm ABS side liner Industrial quality, for workshop or laboratory

Designed for hardness testing instruments, painted in INNOVATEST® RAL colors matching our testers.



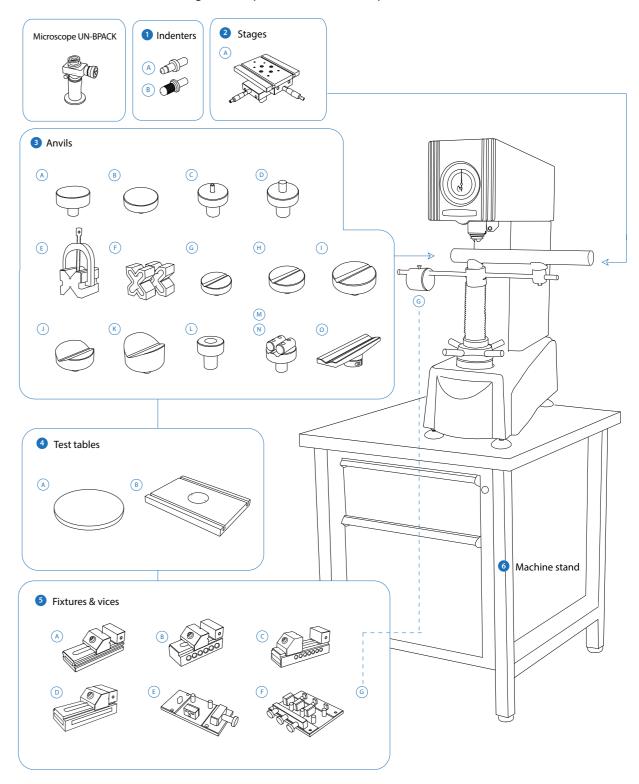
UN-STAND/960 71 x 75 x 80 cm



UN-STAND/965 150 x 75 x 80 cm

ACCESSORIES FENIX 200

Schematic overview of the configuration options, standard and optional accessories



Not all accessories are displayed on this page. Full details can be found on the Order details page.

ORDER DETAILS

FENIX 200



FENIX 200AR Analogue, manual, Rockwell hardness tester 10kgf - 150kgf Analogue, Load Cell Closed Loop, Rockwell hardness tester 10kgf - 187.5kgf FENIX 200ACL P&PSEAPACK60 Plug & Play prepaired, calibration, sea & airworthy packing in "non coniferous wood" material

ACCESSORIES





Direct and Indirect Verification/Calibration & ROCKWELL Certification in compliance with ISO & ASTM, NADCAP. Includes Direct force and depth verification report, machine hysteresis report, indirect verification report (block readings), GR & R report,

flat fee for selected common scales, per scale

CALCEFRDW/1R

SOFTWARE

Upgrades

Upgrade Rockwell tester RS to RSB, Brinell scales, analogue microscope 40x

UN-BPACK01

ACCESSORIES





AS3001-MICRO/02

INDENTERS

Rockwell Ball Indenter 1/8"

Rockwell Ball Indenter 1/4"

Rockwell Ball Indenter 1/2"



Rockwell cone diamond indenter

Brinell Indenter 1mm Ø6.35mm







Brinell Indenter10mm Ø6.35mm

STAGES

TEST TABLES









COVER



UN-COVER1

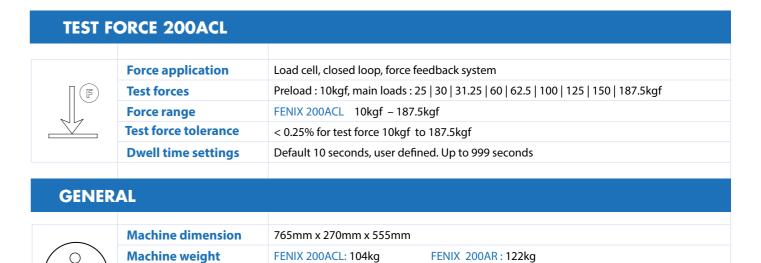
SPECIFICATIONS

HARDNESS SCALES



ROCKWELL	A B C D E F G H K L M P R S V
ISO 6508, ASTM E18 JIS Z 2245	
BRINELL*	HBW1/30 HBW2.5/31.25 HBW2.5/62.5 HBW2.5/187.5 HBW5/25 HBW5/62.5
EN-ISO 6506, ASTM E92 JIS Z 2243	HBW5/125 HBW10/100 * FENIX 200ACL only

TEST FORCE 200AR			
F	Force application	Dead weight system via load selector	
	Test forces	Preload : 10kgf, main loads : 60 100 150kgf	
	Force range	FENIX 200AR 10kgf – 150kgf	
	Test force tolerance	< 1% for test force 10kgf to 150kgf	
	Dwell time settings	User defined	



FENIX 200ACL: 100VAC to 240VAC, 50/60Hz, single phase

150mm (H) x 240mm (D)

10°C to 35°C

FENIX 200ACL: 10W

10% to 90%, non-condensing

Workpiece

accommodation

Operating temperature

Power consumption

Power supply

Humidity



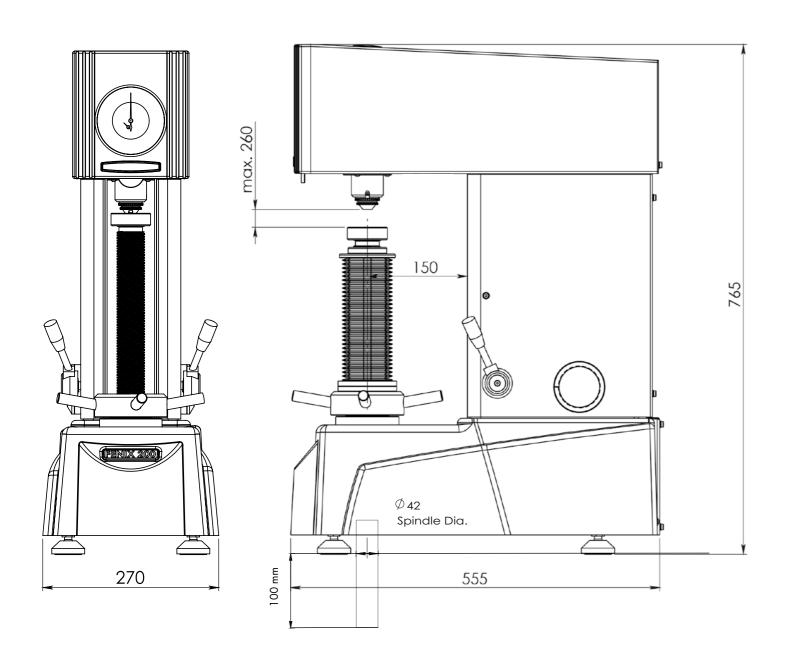
TECHNICAL DRAWINGS

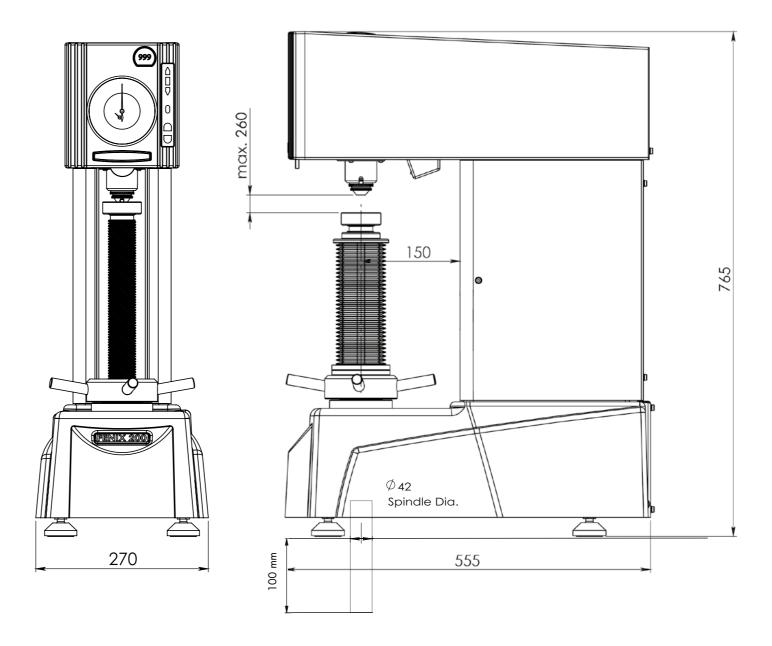
All dimensions in these drawings are in mm, approximate. Working heights and or workpiece accommodation varies depending on the stages and stage accessories used.

Please contact our sales department for more details.

FENIX 200AR

FENIX 200ACL





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FAST & AFFORDABLE ROCKWELL TESTING

OTHER MODELS IN THE ROCKWELL RANGE



FENIX 200DCL

Load Cell, closed loop, force feedback, test force application system Rockwell / Brinell hardness tester. See brochure B18F200DCL/XX



FENIX 300RS

Load Cell, closed loop, force feedback, test force application system Rockwell / Brinell hardness tester with I-TOUCH™ system. See brochure B20F300/XX



VERZUS 720

Load Cell, closed loop Rockwell/Super Rockwell/ Brinell hardness tester, with direct depth measuring system, integrated PC, Windows 10,WiFi, full color touchscreen. See brochure B19V720/XX



HAWK 250RS/400RS

Load Cell, closed loop Rockwell/ Superficial Rockwell hardness tester, with direct depth measuring system, Graphic User Interface, 6.5" Full color touchscreen.

See brochure B20HSERIES/XX



HAWK 652RS-IMP

Load Cell, Closed loop Fully automatic Rockwell/ Superficial Rockwell hardness tester with dual motorized Z-Axis, IMPRESSIONS™ software, 15 " industrial capacitive touchscreen.

See brochure B20HSERIES/XX



NEMESIS 6100

Load Cell, Closed loop Fully automatic Rockwell/ Superficial Rockwell (Brinell) hardness tester with descending test head & fixed workpiece position. full color touchscreen oporation. See brochure B19N6100/XX





NEMESIS 6200

Load Cell, Closed loop
Fully automatic Rockwell/
Superficial Rockwell (Brinell)
hardness tester with
descending test head & fixed
workpiece position, integrated
PC, Windows 10, WiFi, full
color 15" industrial capacitive
touchscreen.

Includes CNC motorized X-Y stage, overview camera and advanced software (IMPRESSIONS™) for automatic pattern testing and fixture recognition.

See brochure B19N6200/XX



NEMESIS 9100RS

Load Cell, closed loop Rockwell/Superficial Rockwell Brinell hardness tester, with integrated PC, Windows 10, WiFi etc. full color touchscreen. See brochure B18N9100/XX



NEMESIS 9600RSB

Floor type, Load Cell, closed loop. Brinell, Rockwell/Superficial Rockwell hardness tester With motorized Z-axis & BIOS Brinell Indent Optical Scanner See brochure B19N9600/XX

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Changes in products and/ or product specifications can emerge due to new technologies and continuous development.

We reserve the right to change or modify specifications of the products without prior notice. We recommend you to contact our sales office for up-to-date information.

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