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.



HARDNESS SCALES



ROCKWELL 10kgf – 150kgf





ROCKWELL FORCE RANGE

FENIX 200 AR

150kgf

187.5kgf

HIGHLIGHTS

- Rockwell scales: $A \mid B \mid C \mid D \mid E \mid F \mid G \mid H \mid K \mid L \mid M \mid P \mid R \mid S \mid V$
- Test loads, pre-load: 10kgf, main-load: 60 | 100 | 150kgf
- Adjustable hydraulic force speed damper
- Adjustable dial indicator with 0.5 HR Rockwell units
- Throat depth: 150mm
- Working height: 260mm
- Rockwell EN-ISO 6508, ASTM E-18
- 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.

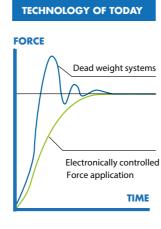
The internal system can be serviced by removing the side and top covers, no need to turn the machine around.



HARDNESS SCALES

ROCKWELL 10kgf – 150kgf

10kgf - 187.5kgf



Load cell, closed loop, force feedback system



ROCKWELL & BRINELL FORCE RANGE

FENIX 200 ACL 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: HBW1/10 | HBW1/30 | HBW2.5/31.25 | HBW2.5/62.5 | HBW2.5/187.5 HBW5/25 | HBW5/62.5 | HBW5/125 | HBW5/187.5 | 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





The FENIX 200 is larger than most other machines in its class. With a throat depth of 150mm and maximum workpiece height of 240mm, it offers the user a generous workspace. Moreover the FENIX 200 is super rigid, sturdy and can withstand the harshest environments. Compare these parameters with alternative products and find that FENIX is leading in its class.







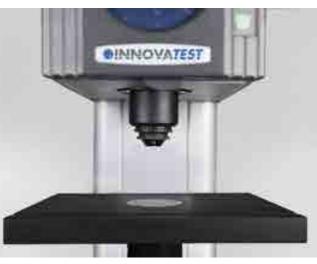
INDENTER COVER & CLAMP

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.

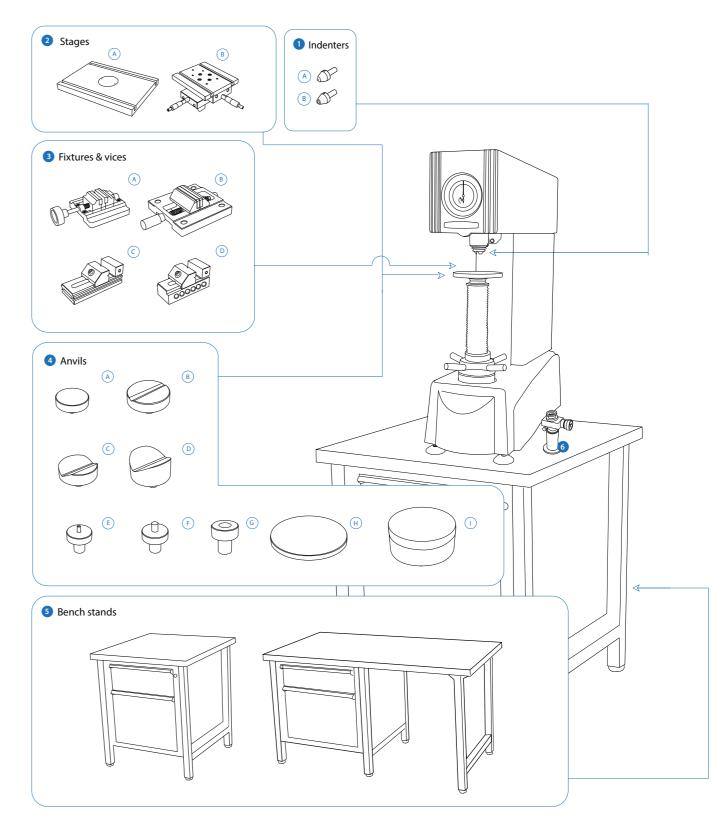


UN-STAND/960 71 x 75 x 80 cm



ACCESSORIES FENIX 200

Schematic overview of the configuration options, standard and optional accessories



ORDER DETAILS

FENIX 200



FENIX 200AR Rockwell hardness tester	FENIX 200AR	
FENIX 200ACL Rockwell (Brinell) hardness tester	FENIX 200ACL	

ACCESSORIES

1	Indenters A	Rockwell cone diamond indenter	IN/6011	STANDARD
		Rockwell cone diamond indenter & ASTM/ISO certificate	IN/6005	
		Rockwell indenter 1/16" carbide ball & ASTM/ISO certificate	IN/7506	
		Rockwell indenter 1/8" carbide ball & ASTM/ISO certificate	IN/7606	
		Rockwell indenter 1/4" carbide ball & ASTM/ISO certificate	IN/7706	
		Rockwell indenter 1/2" carbide ball & ASTM/ISO certificate	IN/7806	
	B	Brinell Indenter 1mm, includes 1 carbide ball & ASTM/ISO certificate	IN/7000	
		Brinell indenter 2.5mm, includes 1 carbide ball & ASTM/ISO certificate	IN/7005	
		Brinell indenter 5mm, includes 1 carbide ball & ASTM/ISO certificate	IN/7010	
		Brinell indenter 10mm, includes 1 carbide ball & ASTM/ISO certificate	IN/7015	
2	Stages A	Flat test table with 2 T-slots, 350x250mm, req. ASV700-21-01 locking Ring	UN-TESTTABLE/015	
		Locking ring	ASV700-21-01	
	В	Manual X-Y stage with analogue metric micrometers, 180x160mm Displacement: 25x25mm, scale 0.01mm, max load 300kg, requires UN-XYZ BUSH42 1x + UN-XYZ30FP40-42 1	UN-TESTTABLE/030	
		Fixing bush 42 XY Stage	UN-XYZ BUSH42	
		Fixing plate 40-42 XY Stage	UN-XYZ30FP40-42	
3	Fixtures & vices A	Polished precision vice with lock down system, jaw 25mm, depth 20mm	UN-VICE/210	
		Polished precision vice with lock down system, jaw 36mm, depth 42mm	UN-VICE/215	
		Polished precision vice with lock down system, jaw 48mm, depth 75mm	UN-VICE/220	
		Polished precision vice with lock down system, jaw 75mm, depth 100mm	UN-VICE/230	
4	Anvils (A)	Flat Anvil 60mm	ASX600-19-04	STANDARD
	B	V-Anvil ø80mm 3.3-20mm	UN-ANVIL/040	
	C	V-Anvil ø80mm 12-80mm	UN-ANVIL/045	
	D	V-Anvil ø80mm 20-140mm	UN-ANVIL/050	
	E	Spot anvil 5mm	UN-ANVIL/010	
	F	Spot anvil 10mm	UN-ANVIL/011	
	G	Anvil for round specimen ø6-25,4mm	UN-ANVIL/200	
	H	Testing table flat ø150mm	ASX600-19-06	
		Irregular part table support, ø150mm	UN-ANVIL/020	
	Machine cover	Anti Static machine cover	UN-TESTERCOVER06	
5	Bench stands	Cabinet test table with drawer 71x75x80cm	UN-STAND/960	
		Cabinet test table with drawer 150x75x80cm	UN-STAND/965	
6	Microscopes	Analogue measuring microscope 20 x	ASS3001-MICRO/01	
		Analogue measuring microscope 40 x	ASS3001-MICRO/02	
		Pre installation, calibration, handling and standard packing (for sea and airworthy transportation)	SEAPACK/032	

ACCESSORIES

INDENTERS



STAGES



FIXTURES & VICES



ANVILS



MICROSCOPES



SPECIFICATIONS

HARDNESS SCALES



ROCKWELL A|B|C|D|E|F|G|H|K|L|M|P|R|S|V

EN-ISO 6508, ASTM E-18 JIS Z 2245

HBW1/30 | HBW2.5/31.25 | HBW2.5/62.5 | HBW2.5/187.5 | HBW5/25 | HBW5/62.5 |

HBW5/125 | HBW10/100 * FENIX 200ACL only

EN-ISO 6506, ASTM E92 JIS Z 2243

BRINELL*

TEST FORCE 200AR



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

TEST FORCE 200ACL



Force application

Load cell, closed loop, force feedback system

Preload: 10kgf, main loads: 15.625 | 25 | 30 | 31.25 | 60 | 62.5 | 100 | 125 | 150 | 187.5kgf

Force range
FENIX 200ACL 10kgf - 187.5kgf

Test force tolerance < 0.25% for test force 10kgf to 187.5kgf

Dwell time settings
Default 10 seconds, user defined. Up to 999 seconds

GENERAL



Machine dimension765mm x 270mm x 555mmMachine weightFENIX 200ACL: 104kgFENIX 200AR: 122kgPower supply100VAC to 240VAC, 50/60Hz, single phaseOperating temperature10°C to 35°C, non-condensingPower consumption10WHumidity10% to 90%, non-condensing



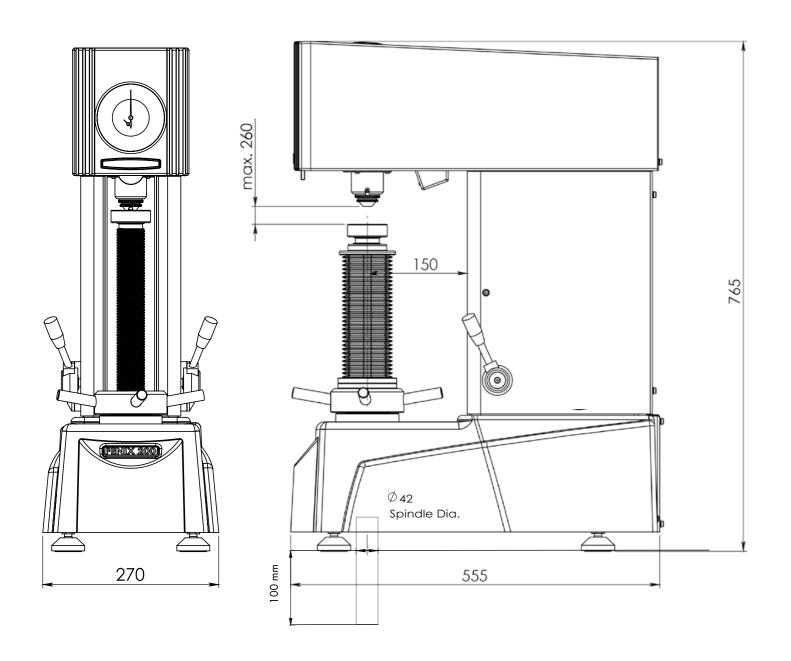
TECHNICAL DRAWINGS

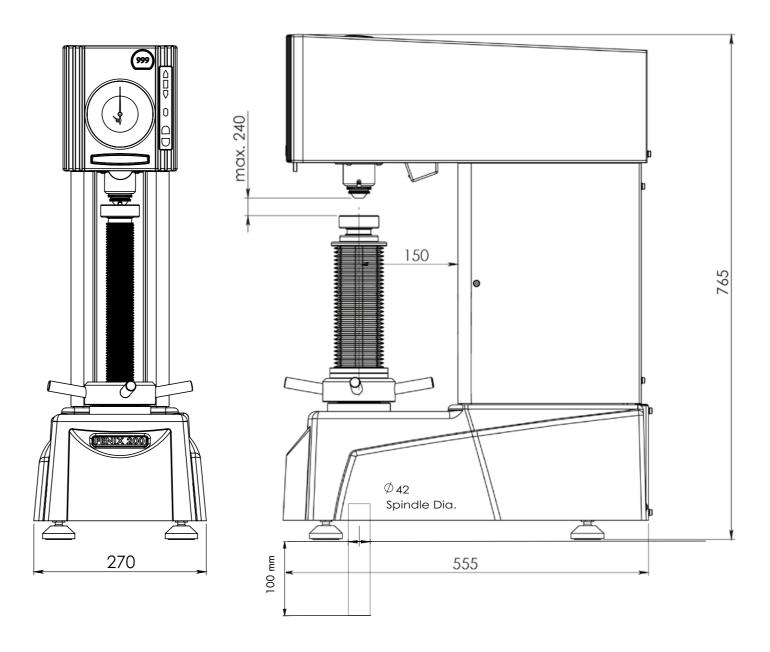
All dimensions in these drawings are in mm, approximate. Working heights and or workpiece accommodation varies depending on the stages and stage accessories used.

Please contact our sales department for more details.

FENIX 200AR

FENIX 200ACL





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OTHER MODELS IN THE

ROCKWELL RANGE



NEXUS 605

Load Cell, closed loop Rockwell/Superficial Rockwell/ Brinell hardness tester, with full color touch screen.

See brochure B18N605/XX



NEXUS 610

Load Cell, closed loop Rockwell/Superficial Rockwell/ Brinell hardness tester, with integrated PC, Windows 10, wifi etc. full color touch screen. See brochure B18N610/XX



VERZUS 710

Load Cell, closed loop Rockwell/Superficial Rockwell/ Brinell hardness tester, with direct depth measuring system, integrated PC, Windows 10, wifi, full color touch screen. See brochure B18V710/XX



NEMESIS 6100

Load Cell, Closed loop Fully automatic Rockwell/ Superficial Rockwell (Brinell) hardness tester with descending test head & fixed workpiece position. full color touch screen oporation. See brochure B18N6100/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 touch screen. Includes CNC motorized X-Y stage, overview camera and advanced software (IMPRESSIONS) for automatic pattern testing and fixture recognition.

See brochure B18N6200/XX

www.innovatest-europe.com

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.

Brochure B18F200/08/EN

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