# FENIX 200 DCL

Rockwell | Brinell Hardness Testers

SEMI - AUTOMATIC





# FENIX 200DCL

### **Fully digital Rockwell hardness testing**

The FENIX 200DCL, constructed around a rock solid C-frame, is equipped with a load cell, Closed loop, force feedback test force application system. Perform you hardness test, by easily pressing the START button on the 5" industrial touchscreen. Test results can be simply stored up to 50 readings.

The DCL version performs both on Rockwell as Brinell, one of the advantages of the Closed loop system. The internal system can be easily serviced by removing the side and top covers, no need to turn the machine upside down.





TIME



9

- Brinell scales : HBW1/10 | HBW1/30 | HBW2.5/31.25 | HBW2.5/62.5 | HBW2.5/187.5 5" Industrial touchscreen for scale indication, dwell time countdown etc.

Machine dimensions : H765mm / W270mm / D555mm

# INNOVATION

Num : 6

Sdev: 29.11

Min : 22.91 Max : 111.2 Mean : 59.13

00

Ready for testing

nit.

STOP

Dwell time

6

65.00 HRA 15018265 (B.2)

100.00

30.00



**STANDARD** 

Force adjustable workpiece clamp

### **Observe, Think, Try, Change...**

Unparalleled in this class of Rockwell hardness testing machines is the electronic Load cell, Closed loop, force feedback, force application system. Absolute maintenance free, automatic setting of test forces by choosing the Rockwell hardness scale. Error free operation, due to an automatic test cycle, applying the main load and correct pre-set dwell time.





### **Innovative software functions**

The I-TOUCH™ LT software provides clever multi-function keys for testing, set-up, storing and uploading of test programs, statistic control and more, making tester operation as easy as it can be.

Data export, single or batch readings, with a single press on a button, or just fully automatic over an USB connection to a PC and imported or evaluated in EXCEL. Further advanced features include extended statistics, shape correction for convex, concave or ball shaped specimens, hardness conversion to Rockwell, Brinell or Tensile strength according to ASTM E140 and ISO 18625 with different material tables.

# **OPERATING COMFORT WITH** I-TOUCH LT



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### **ACTIVE UPPER LIMIT**



### **ACTIVE LOWER LIMIT**



### 3 **MEASUREMENT OVERVIEW**



### 4 **CONVERSION SCREEN**







0 1 Ready for testing



### **EXPORT FUNCTIONS**





**OINNOVATEST** 

## VARIOUS POSSIBILITIES

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



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



Digital, Load cell Closed loop, Rockwell hardness tester 10kgf - 187.5kgf
Plug & Play prepaired, calibration, sea & airworthy packing
in "non coniferous wood" material

FENIX 200DCL P&PSEAPACK60

### ACCESSORIES

A	LCESSORIES			
1	Indenters A	Rockwell C Diamond Indente	r. Ø6.35mm. ISO & ASTM certified	IN/6005
		Rockwell Ball Indenter 1/16". In	cludes 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7506
		Rockwell Ball Indenter 1/8". Inc	ludes 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7606
		Rockwell Ball Indenter 1/4". Inc	ludes 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7706
		Rockwell Ball Indenter 1/2". Inc	ludes 1 carbide ball, Ø6.35mm. ISO & ASTM certified	IN/7806
	В	Brinell Indenter 1mm. Include	s 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7000
		Brinell Indenter 2.5mm. Inclue	des 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7005
			s 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7010
	OINNOVATES	m. Inclue	les 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7015
2	Stag	nalog	ue metric micrometers, 180x160mm 0.01mm, max load 300kg	UN-TESTTABLE/030
3	Anv			AS3000-19-04
				UN-TESTTABLE/002
		DF -		UN-ANVIL/010
	D			UN-ANVIL/011
	E	Vb	m (LxBxH)	UN-VBLOCK404050
		and the second s	120x100mm 8-90mm pair	UN-CROSSBLOCK01
1				UN-ANVIL/005
	U			UN-ANVIL/006
				UN-ANVIL/040
	Q		Name of Street o	UN-ANVIL/045
	K			UN-ANVIL/050
	L	No. of Lot of Lo	5,4n	UN-ANVIL/200
	M	-		UN-CVANVIL680
	N			UN-CVANVIL50200
	FALCON 60			UN-TESTTABLE/040
	0			CM-08-0186
4			CM-08-0194	
		, sc	rewh	ASV700-00-20
	0	icouring at Ø235mm, sc	rewfix	UN-TESTTABLE/014
	В	Large flat surface testing table for large components	e 350x250mm, thickness 30mm with 2 T-slots,	UN-TESTTABLE/015

	Direct and Indirect Verification/Calibration & ROCKW compliance with ISO & ASTM, NADCAP. Includes Direct force and depth verification report, r indirect verification report (block readings), GR & R r flat fee for selected common scales, per scale
Cover	Anti Static machine cover 350x550x770mm

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Upgrades	Upgrade Rockwell tester RS to RSB, Brinell scales, analogue microscope 40x	UN-BPACK01
Connectivity Plus	Interface cable for PC	UN-CABLE/910
	Utility software; Import test results in MS applications like Excel	UN-SW/905



, machine hysteresis report, R report,

UN-COVER1

### ACCESSORIES





### **SPECIFICATIONS**

### HARDNESS SCALES

$\frown$	ROCKWELL	A
	EN-ISO 6508, ASTM E-18 JIS Z 2245	
)	BRINELL	F
	EN-ISO 6506, ASTM E92 JIS Z 2243	F

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

HBW1/30 | HBW2.5/31.25 | HBW2.5/62.5 | HBW2.5/187.5 | HBW5/25 | HBW5/62.5 | HBW5/125 | HBW10/100

### **TEST FORCE**



Nois

Load cell, Closed loop, force feedback system
Preload : 10kgf, main loads : 25   30   31.25   60   62.5   100   125   150   187.5kgf
FENIX 200DCL 10kgf – 187.5kgf
< 0.25% for test force 10kgf to 187.5kgf
Default 10 seconds, user defined. Up to 999 seconds

### 270mm x 555mm

H) x 240mm (D)

to 240VAC, 50/60Hz, single phase

35°C

90%, non-condensing





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### OTHER MODELS IN THE **ROCKWELL RANGE**



FENIX 200AR

Load applied from a dead weight force actuator Rockwell / Brinell hardness tester.

See brochure B18F200/XX



### FENIX 300RS

Load cell, Closed loop, force feedback, test force application system Rockwell / Brinell hardness tester with I-TOUCH<sup>™</sup> 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



**NEMESIS 6100** 

Load cell, Closed loop

Superficial Rockwell

(Brinell) hardness tester

full color touchscreen

oporation.

with descending test head

& fixed workpiece position.

See brochure B19N6100/XX

Fully automatic Rockwell/



### **NEMESIS 6200**

Load cell, Closed loop Fully automatic Rockwell/ Superficial Rockwell (Brinell) hardness tester Includes CNC motorized X-Y stage, overview camera and advanced software (IMPRESSIONS<sup>™</sup>) 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



hardness tester With motorized Z-axis & BIOS Brinell Indent Optical Scanner See brochure B19N9600/XX

### www.innovatest-europe.com



### **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





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 B18F200DCL/04/EN

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