

FENIX 300 SERIES

Rockwell | Brinell | Universal Hardness Testers

SEMI - **AUTOMATIC**



FENIX 300RS

Sense, Simplicity, affordable top technology...

The FENIX 300RS combines today's load application technology with a top class German made depth measuring system. Rockwell, Superficial Rockwell & Brinell scales are part of the machine's capabilities. High accurate test results and fast operation make the FENIX 300 series the best work horse in its class on the market today. The entry model 300 RS provides a smart User Interface, easy to learn and with internal and external data storage options.

ROCKWELL & BRINELL FORCE RANGE:

1kgf	3kgf	FENIX 300RS	150kgf	250kgf
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HARDNESS SCALES



ROCKWELL 3kgf – 150kgf



BRINELL 1kgf - 250kgf
(Optional)



HIGHLIGHTS

- 1 Rockwell, Superficial Rockwell & Brinell (opt.)
- 2 Load Cell, closed loop force control system
- 3 Direct depth measurement on indenter shaft
- 4 Depth reading tolerance 0.05µm
- 5 Clamping nose to fix workpieces & indenter protection
- 6 Integrated LED Sample illumination
- 7 I-TOUCH™ software system, advanced tester control
- 8 Industrial 6.5" touchscreen
- 9 Optional Brinell measurement module
- 10 USB connectivity
- 11 Massive full steel C-frame for best GR & R results
- 12 Replaceable ABS bottom cover avoids body damage

FENIX 300RS-IMP

Workflow process visualisation, advanced connectivity...

The IMP version of the FENIX 300RS combines the excellent force application and measuring system with an advanced machine controller running on Windows 10. Make connection to your network by WIFI or LAN, connect to a printer, a Quality system or MS application; the IMPRESSIONS™ LT system offers great flexibility.

ROCKWELL & BRINELL FORCE RANGE:

1kgf	3kgf	FENIX 300RS-IMP	150kgf	250kgf
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HARDNESS SCALES



ROCKWELL 3kgf – 150kgf



BRINELL 1kgf - 250kgf
(Optional)



HIGHLIGHTS

- 1 Rockwell, Superficial Rockwell & Brinell (opt.)
- 2 Load Cell, closed loop force control system
- 3 Direct depth measurement on indenter shaft
- 4 Depth reading tolerance 0.05µm
- 5 Clamping nose to fix workpieces & indenter protection
- 6 Integrated LED Sample illumination
- 7 **IMPRESSIONS™ LT Software, workflow control**
- 8 **Integrated Industrial PC, Windows 10 Licensed**
- 9 Industrial 6.5" touchscreen
- 10 **Multi USB, LAN, WLAN, (Bluetooth opt.) connectivity**
- 11 **Optional integrated software for Brinell and BIOS – Brinell Indent Optical Scanner**
- 12 Massive full steel C-frame for best GR & R results
- 13 Replaceable ABS bottom cover avoids body damage

FENIX 300U

Not sure of your future needs..?

In addition to Rockwell and Superficial Rockwell, the FENIX 300U has the ability to perform Vickers, Knoop and Brinell scales. A fit for purpose machine for workshops usually measuring Rockwell scales and occasionally Vickers, Knoop or Brinell. Excellent choice for education institutes such as technical schools, universities and versatile general workshops. The electronic microscope with exchangeable lenses and ringlight for the measurement of shallow Brinell indents is easy to use and provides crisp images of the indent.

UNIVERSAL FORCE RANGE:

1kgf	3kgf	FENIX 300U	150kgf	250kgf
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HARDNESS SCALES

	ROCKWELL	3kgf – 150kgf
	BRINELL	1kgf - 250kgf
	VICKERS	1kgf – 120kgf
	KNOOP	1kgf – 5kgf

HIGHLIGHTS

- 1 Rockwell, Superficial Rockwell, Vickers, Knoop & Brinell
- 2 Load Cell, closed loop force control system
- 3 Direct depth measurement on indenter shaft
- 4 Depth reading tolerance 0.05µm
- 5 Clamping nose to fix workpieces & indenter protection
- 6 Integrated LED Sample illumination
- 7 I-TOUCH™ software system, advanced tester control
- 8 Industrial 6.5" touchscreen
- 9 **Electronic eyepiece, microscope system and integrated ring light for Brinell measurements (optional)**
- 10 **Sliding table for Brinell and Vickers measurements**
- 11 USB connectivity
- 12 Massive full steel C-frame for best GR & R results
- 13 Replaceable ABS bottom cover avoids body damage



FENIX 300XL

Reaching out to the stars...

The XL version of the FENIX range combines all the specifications of the standard 300RS model with a much taller work space. The test height available on this model can be used for both Rockwell scales as well as for the Brinell scales.

ROCKWELL & BRINELL FORCE RANGE:

1kgf	3kgf	FENIX 300XL	150kgf	250kgf
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HARDNESS SCALES

	ROCKWELL	3kgf – 150kgf
	BRINELL (Optional)	1kgf - 250kgf

HIGHLIGHTS

- 1 Rockwell, Superficial Rockwell & Brinell (opt.)
- 2 **Extra large working height 470mm**
- 3 Load Cell, closed loop force control system
- 4 Direct depth measurement on indenter shaft
- 5 Depth reading tolerance 0.05µm
- 6 Clamping nose to fix workpieces & indenter protection
- 7 Integrated LED Sample illumination
- 8 I-TOUCH™ software system, advanced tester control
- 9 Industrial 6.5" touchscreen
- 10 USB connectivity
- 11 Massive full steel C-frame for best GR & R results
- 12 Replaceable ABS bottom cover avoids body damage



FENIX RANGE

Phoenix, arising again and again, our 3rd generation of the most popular range of Rockwell hardness testing machines is now offering high-end testing technology, an optional advanced integrated Windows 10 system controller, a universal or extra tall model; at very affordable pricing.

Constructed around a solid steel frame, the FENIX 300 series includes a best in its class depth measuring system providing a stable maximum tolerance of less than 0.05µm. The combination of these 2 key elements and a Load Cell, Closed Loop force feedback system provides a workhorse, a hardness tester for use in the more demanding workshop or QC department.

Expanding the capabilities of the FENIX 300 line is as easy as the addition of Optical hardness testing of Vickers, Knoop and Brinell. Manual Microscope, Brinell Optical indent scanning system (BIOS) or for the FENIX 300U an integrated Microscope for optical image analysis. Outfitted properly the FENIX 300 series of testers excel at testing facilities, Colleges and Universities that require more than just a Rockwell machine.



FENIX 300RS
I-TOUCH™



FENIX 300RS-IMP
IMPRESSIONS™ LT



FENIX 300U
Universal



FENIX 300XL
Extra Tall

Above the current...

It is usually easy to determine how much use a hardness tester gets over its lifetime in a lab. Missing paint, dents and scratches all over the base of the tester, and even rust forms if not corrected in time. Samples fall from the testing area, an occasional bump from a foreign object or just a paint chip from use can make a new machine look aged after short period of time. Our FENIX line is outfitted with an ABS Cover to protect the tester and the samples, including verification blocks, from changing your new tester into the not so new anymore tester. Simply forward focused thinking from an Advanced hardness testing manufacturer.

I-TOUCH™ INTERFACE

Easy to learn, easy to use...

The I-TOUCH™ software on the FENIX 300 series provides clever multi-function on an industrial touchscreen for machine operation such as 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.

IMPRESSIONS™ LT INTERFACE

Advanced workflow control...

IMPRESSIONS™ LT installed on the integrated Windows 10 controller provides a modern graphical user interface on the 300RS-IMP. Common sense and simplicity, but yet, includes the most advanced functions found in hardness testing. With only a minimum of operator skills required, IMPRESSIONS™ leads you through the set up process, in just seconds, not even minutes. Standard features, complex tasks and advanced workflow at your fingertips.

Just some of the features :

Scale setting, Test methods setting, Limits, Conversion to other hardness scales, Graphics, File saving, Test program saving, Zoom function, Full screen, etc.

All standardized hardness testing methods have been programmed in the software and can be selected at any time.



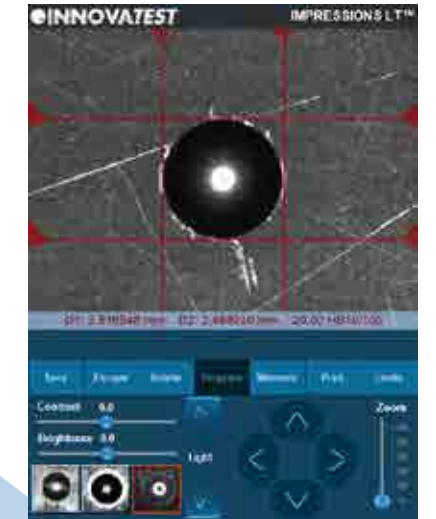
MEASUREMENT OVERVIEW



OUT OF SET LIMITS



INDENT ZOOM MAGNIFICATION



GIPE: GRAPHIC INDENT PROCESS EVALUATION

INNOVATIVE SOFTWARE FUNCTIONS

VARIOUS POSSIBILITIES

The FENIX 300 Series is a workhorse in the range of Rockwell hardness testers. With a throat depth of 150mm and maximum workpiece height of 470mm (XL model), it offers the user a generous workspace. It is designed for 24/7 use and conducts testing at a high speed.

BIOS BRINELL INDENT OPTICAL SCANNER

The FENIX 300RS-IMP can be upgraded with a BIOS system that automatically scans and measures Brinell indents. Both BIOS models 1 & 2 have a high quality optical system with a built-in ring light to assure fast and accurate Brinell measurements.





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

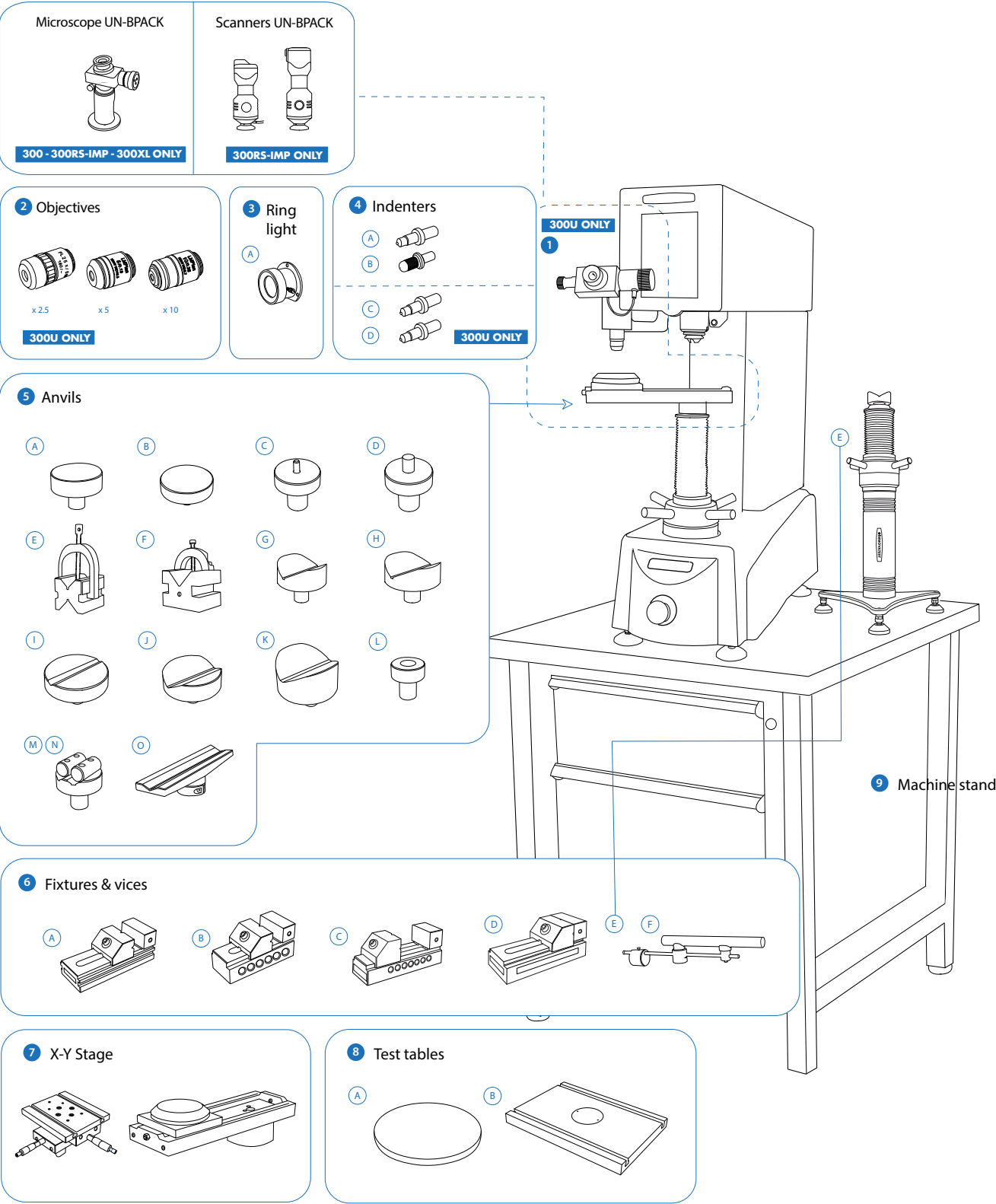
Designed for hardness testing instruments, painted in INNOVATEST® RAL colors matching our testers.



UN-STAND/960 71 x 75 x 80 cm

ACCESSORIES FENIX RANGE

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 SERIES

	Fully automatic, load cell, closed loop, Rockwell hardness tester 1kgf - 250kgf	FENIX 300RS	
	Fully automatic, load cell, closed loop, Rockwell hardness tester 1kgf - 250kgf	FENIX 300RS-IMP	
	Fully automatic, load cell, closed loop, Rockwell hardness tester 1kgf - 250kgf	FENIX 300XL	
	Fully automatic, load cell, closed loop, Universal hardness tester 1kgf - 250kgf	FENIX 300U	
	Plug & Play prepared, calibration, sea & airworthy packing in "non coniferous wood" material (for 300RS, 300RS-IMP & 300U)	P&PSEAPACK190	
	Plug & Play prepared, calibration, sea & airworthy packing in "non coniferous wood" material (for 300XL)	P&PSEAPACK200	

ACCESSORIES

1	Eyepiece	Electronic digital eyepiece with 15x magnification (for 300U)	AS-EYEPIECE/03	STANDARD
2	Objectives	Objective 2.5x (for 300U)	ASSV700-OBJ2.5X	STANDARD
		Objective 5x (for 300U)	ASS9000-10-02	STANDARD
		Objective 10x (for 300U)	ASS9000-10-03	STANDARD
3	Ringlight	LED ring light for enhanced Brinell viewing	ASV700-10	
4	Indenters	A Rockwell C Diamond Indenter. Ø6.35mm. ISO & ASTM certified	IN/6005	
			IN/7506	
			IN/7606	
			IN/7706	
			IN/7806	
			IN/7000	
		B Brinell Indenter 2.5mm. Includes 1 carbide ball. Ø6.35mm. ISO & ASTM certified	IN/7005	
			IN/7010	
			IN/7015	
		C Macro Vickers Indenter Ø6.35mm, ISO & ASTM certified (for 300U)	IN/8010	
			IN/8220	
		5 Anvils	AS3000-19-04	
			UN-TESTTABLE/002	
			UN-ANVIL/010	
			UN-ANVIL/011	
			UN-VBLOCK404050	
			UN-CROSSBLOCK01	
			UN-ANVIL/005	
			UN-ANVIL/006	
			UN-ANVIL/040	
			UN-ANVIL/045	
			UN-ANVIL/050	
			UN-ANVIL/200	
			UN-CVANVIL680	
			UN-CVANVIL50200	
			CM-08-0186	

		Test table 100x100mm, V groove 20mm wide, 10mm deep	UN-TESTTABLE/040	
6	Fixtures and Vices	A Polished precision vice with lock down system, jaw width 25mm, opens 20mm	UN-VICE/210	
		B Polished precision vice with lock down system, jaw width 36mm, opens 42mm	UN-VICE/215	
		C Polished precision vice with lock down system, jaw width 48mm, opens 75mm	UN-VICE/220	
		D Polished precision vice with lock down system, jaw width 75mm, opens 100mm	UN-VICE/230	
		E Jack Rest (for 300RS, 300RS-IMP & 300XL)	SA-08-0010	
		F Adjustable Vari rest (for 300RS, 300RS-IMP & 300XL)	SA-08-0013	
7	X-Y Stage	Manual X-Y stage with analogue metric micrometers, 180x160mm Displacement: 25x25mm, scale 0.01mm, max load 300kg	UN-TESTTABLE/030	
		Sliding platform of the sliding unit (for 300U)	ASV700-22-01B	STANDARD
		Clamping, Locking & Fixing Adapters	UN-TESTTABLE/ 030FAPL	
8	Test Tables	Lock flange	UN-XYZ BUSH42	
		X-Y slide adaptor (for 300U)	ASV700-22-02	STANDARD
		A Testing table Ø200mm (61-65HRC) requires lock flange (for 300RS, 300RS-IMP & 300XL)	CM-08-0194	
		Testing table flat ø180mm, screwfix	ASV700-00-20	
		Testing table flat ø235mm, screwfix	UN-TESTTABLE/014	
		B Large flat surface testing table 350x250mm, thickness 30mm with 2 T-slots, for large components	UN-TESTTABLE/015	
9	Machine stand	Lock flange	ASV700-21-01	
		Cabinet test table with drawer for hardness testers 71x75x80cm	UN-STAND/960	
		Seaworthy packing box for 950/960	PACK/100	
		ISO / ASTM Verification	CALCEFRDW/1B	
		ROCKWELL direct and indirect verification/calibration & certification in compliance with ISO & ASTM, NADCAP. Includes direct force and indirect verification report (block readings), GR & R report, flat fee for selected common scales, per scale.	CALCEFRDW/1R	
		VICKERS direct and indirect verification/calibration & certification in compliance with ISO & ASTM, NADCAP. Includes direct force and indirect verification report (block readings), GR & R report, flat fee for selected common scales, per scale (for 300U).	CALCEFRDW/1V	
	Covers	KNOOP direct and indirect verification/calibration & certification in compliance with ISO & ASTM, NADCAP. Includes direct force and indirect verification report (block readings), GR & R report, flat fee for selected common scales, per scale (for 300U).	CALCEFRDW/1K	
		Machine cover 600x700x1100mm (for 300XL)	UN-COVER5	
		Machine cover 350x550x770mm (for 300RS, 300RS-IMP & 300U)	UN-COVER1	

SOFTWARE

	Connectivity Plus	Interface cable for PC	UN-CABLE/910	
		Utility software; Import test results in MS applications like Excel	UN-SW/905	
		Blue Tooth connectivity (for 300RS-IMP)	UN-BTADAPT	
		Wireless system Keyboard & wireless mouse (for 300RS-IMP)	UN-SKBSET	STANDARD
	Upgrades	Upgrade Rockwell tester RS to RSB, Brinell scales, analogue microscope 40x	UN-BPACK01	
		Upgrade Rockwell tester RS to RSB, Brinell scales, BIOS 1 system, IMPRESSIONS™ Lite	UN-BPACK06	
		Upgrade Rockwell tester RS to RSB, Brinell scales, BIOS 2 system, IMPRESSIONS™ Lite	UN-BPACK07	

ACCESSORIES

MICROSCOPES

UN-BPACK



AS3001-MICRO/01
AS3001-MICRO/02

SCANNERS

UN-BPACK



SA-12-0001 SA-12-0002

EYE PIECE



AS-EYEPIECE/03

OBJECTIVES



ASSV700-OBJ2.5X



ASS9000-10-02



ASS9000-10-03

RINGLIGHT



ASV700-10

INDENTERS

A



Rockwell cone diamond indenter



Rockwell Ball Indenter 1/2"



10mm Carbide Ball Indenter Ø6.35mm



Rockwell Ball Indenter 1/16"

B



1mm Carbide Ball Indenter Ø6.35mm

C



Macro Vickers Indenter Ø6.35mm



Rockwell Ball Indenter 1/8"



2.5mm Carbide Ball Indenter Ø6.35mm

D



Micro Knoop Indenter Ø6.35mm



Rockwell Ball Indenter 1/4"



5mm Carbide Ball Indenter Ø6.35mm

ANVILS

A



AS3000-19-04

B



UN-TESTTABLE/002

C



UN-ANVIL/010

D



UN-ANVIL/011

E



UN-VBLOCK404050

F



UN-CROSSBLOCK01

G



UN-ANVIL/005

H



UN-ANVIL/006

I



UN-ANVIL/040

J



UN-ANVIL/045

K



UN-ANVIL/050

L



UN-ANVIL/200

M



UN-CVANVIL680
UN-CVANVIL50200

O



CM-08-0186

FIXTURES & VICES

A



UN-VICE/210

B



UN-VICE/215

C



UN-VICE/220

D



UN-VICE/230

E



SA-08-0010

F



SA-08-0013

X-Y STAGE



UN-TESTTABLE/030



ASV700-22-01B

TEST TABLES



ASV700-00-20
UN-TESTTABLE/014
CM-08-0194



UN-TESTTABLE/015

MACHINE STAND



UN-STAND/960

COVERS



UN-COVER1
UN-COVER5

SPECIFICATIONS



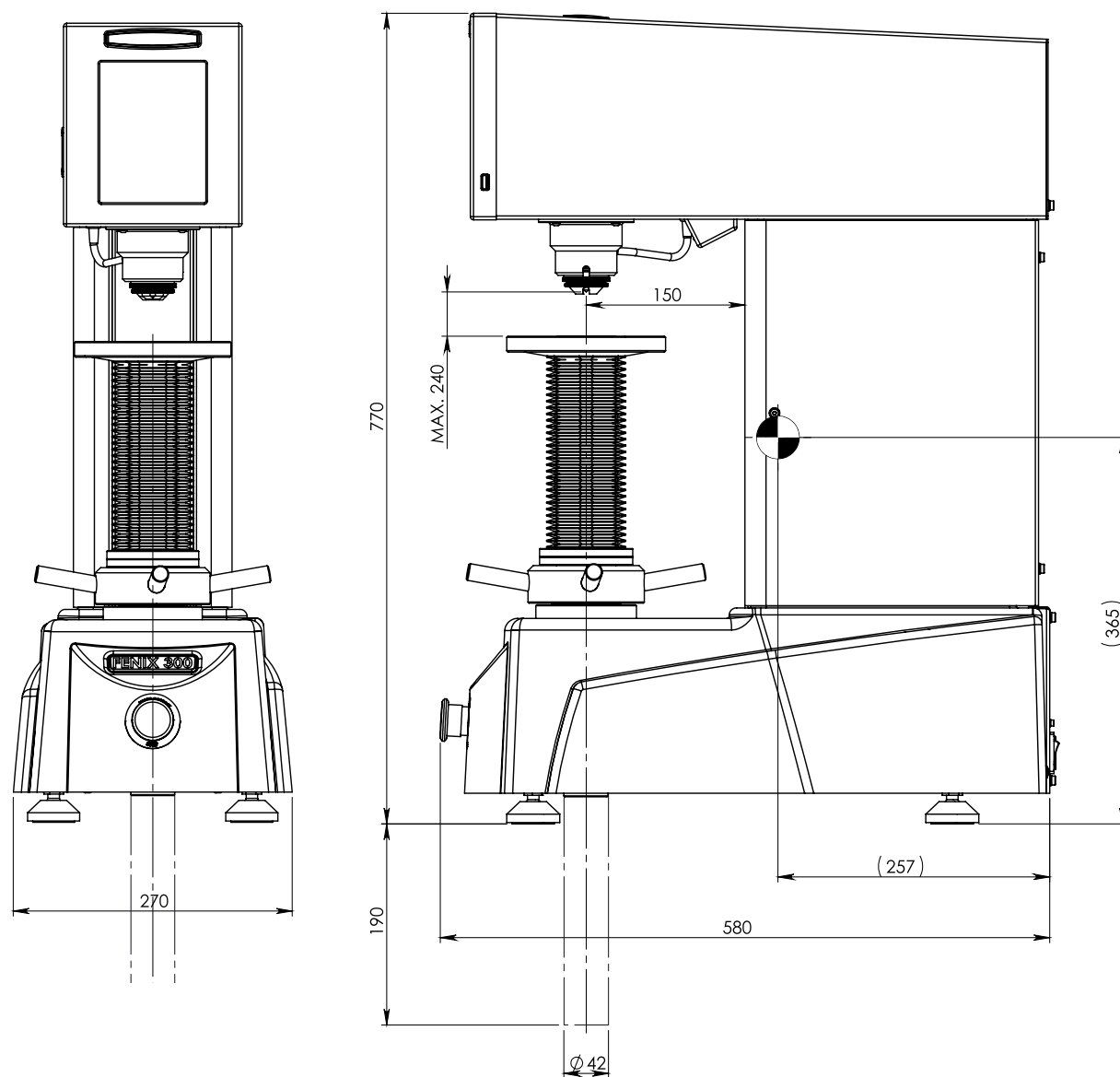
TEST FORCE			FENIX 300RS	FENIX 300RS-IMP	FENIX 300U	FENIX 300XL
	TEST FORCES	1kgf - 250kgf	+	+	+	+
	FORCE APPLICATION	Load cell, closed loop, force feedback system	+	+	+	+
HARDNESS SCALES						
	VICKERS	HV1 HV2.5 HV3 HV4 HV5 HV10 HV20 HV25 HV30 HV40 HV50 HV100 HV120	—	—	+	—
	KNOOP	HK1 HK2.5 HK3 HK4 HK5	—	—	+	—
	ROCKWELL	Regular Rockwell scales; Pre Load 10kgf, Main Load 60kgf 100kgf 150kgf A B C D E F G H K L M P R S V Superficial Rockwell scales; Pre Load 3kgf, Main Load 15kgf 30kgf 45kgf 15N 30N 45N 15T 30T 45T 15W 30W 45W 15X 30X 45X 15Y 30Y 45Y	+	+	+	+
	BRINELL	HBW1/2.5 HBW1/5 HBW1/10 HBW1/30 HBW2.5/6.25 HBW2.5/7.8125 HBW2.5/15.625 HBW2.5/31.25 HBW2.5/62.5 HBW2.5/187.5 HBW5/25 HBW5/31.25 HBW5/62.5 HBW5/125 HBW5/250 HBW10/100 HBW10/125 HBW10/250	Optional	Optional	+	Optional
	PLASTIC ISO 2039-1/2	49 N, 132 N, 358 N, 961 N	+	+	+	+
	HVD (HVT)	HV1 HV5 HV10 HV20 HV25 HV30 HV40 HV50 HV60 HV100 HV120 HV125 HV150	+	+	+	+
	HBD (HBT)	HB1/5 HB1/10 HB1/30 HB2.5/6.25 HB2.5/7.8125 HB2.5/15.625 HB2.5/31.25 HB2.5/62.5 HB2.5/187.5 HB5/25 HB5/31.25 HB5/62.5 HB5/125 HB5/250 HB10/100 HB10/125 HB10/250	+	+	+	+
	CARBON	HR 2.5/7 HR 5/7 HR 5/15 HR 5/20 HR 5/40 HR 5/60 HR 5/100 HR 5/150 HR 10/20 HR 10/40 HR 10/60 HR10/100 HR 10/150	+	+	+	+
SYSTEM						
	I-TOUCH™	Graphic User Interface, Full color touchscreen, USB-2	+	—	+	+
	IMPRESSIONS™ LT	Integrated system controller, Windows 10, full color touchscreen, LAN, W-LAN, USB-3	—	+	—	—
GENERAL						
	MACHINE DIMENSIONS		270mm x 580mm x 770mm	270mm x 580mm x 770mm	325mm x 640mm x 770mm	440mm x 580mm x 1000mm
	MACHINE WEIGHT		115kg	115kg	115kg	140kg
	TEST FORCE TOLERANCE	< 0.5%	+	+	+	+
	DWELL TIME SETTINGS	Default 1 second, user defined. Up to 99 seconds	+	+	+	+
	OPERATING TEMPERATURE	10°C to 35°C	+	+	+	+
	POWER CONSUMPTION	<100W	+	+	+	+
	HUMIDITY	10% to 90%, non-condensing	+	+	+	+

TECHNICAL DRAWINGS

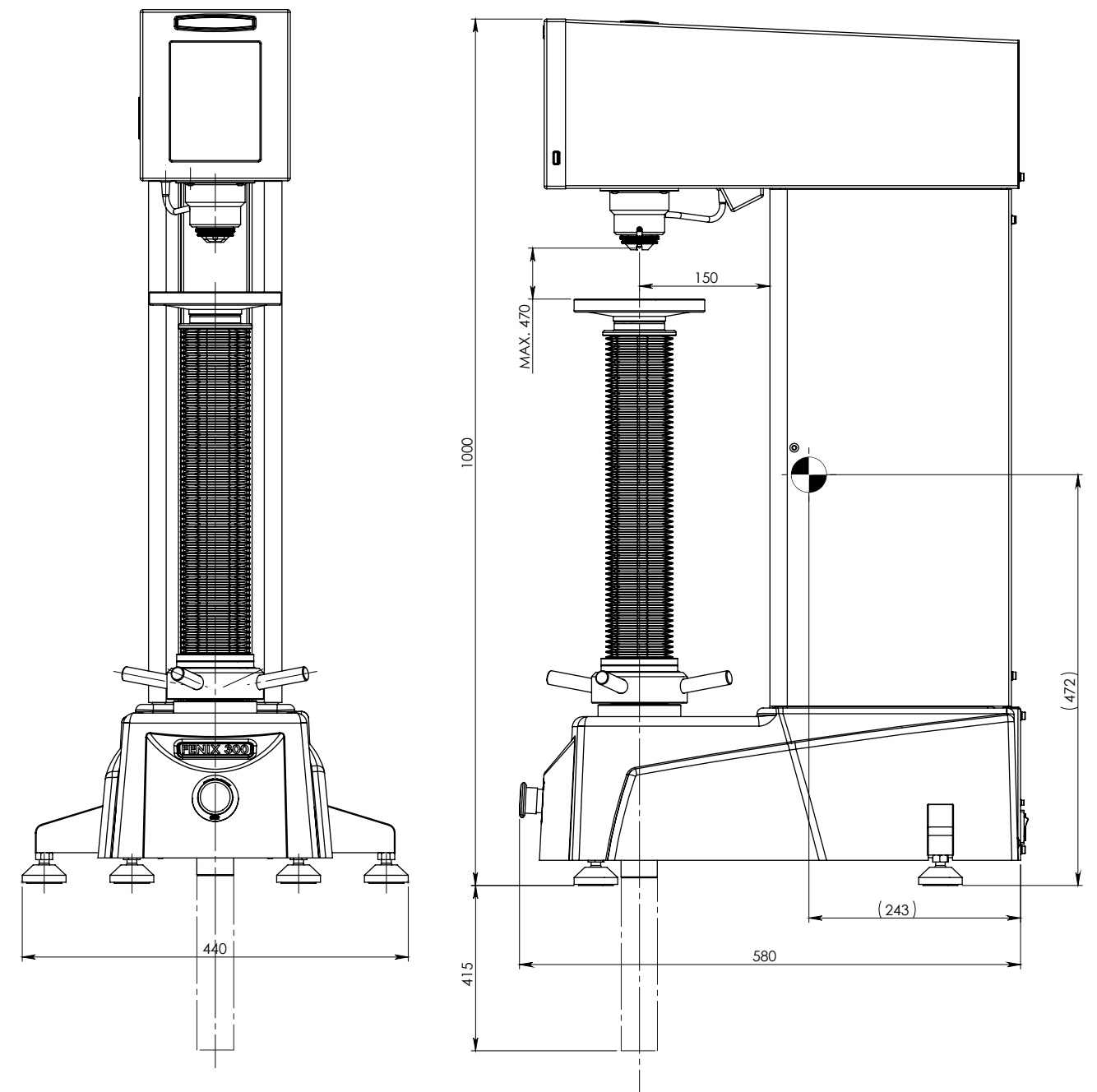
All dimensions in these drawings are in mm, approximate. Working heights and or workpiece accommodation varies depending on the stages and stage accessories used.

Please contact our sales department for more details.

FENIX 300



FENIX 300XL



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 200ACL

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

See brochure B18F200/XX



FENIX 200DCL

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

See brochure B18F200DCL/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 operation.

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 touchscreen.

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

See brochure B18N6200/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 touchscreen.

See brochure B18V710/XX



VERZUS 720

Load Cell, closed loop Rockwell/Superficial Rockwell/ Brinell hardness tester, with direct depth measuring system, integrated PC, Windows 10, wifi, full color touchscreen.

See brochure B18V720/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

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.

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