NEXUS 7700

Universal Hardness Tester

SEMI-AUTOMATED





NEXUS 7700

The icon of Universal hardness testing!

The 7700 is the latest update of the late 60's development matt screen Universal Hardness tester with a swivel system to change from indenter to objective position. Alive as never before!

Due to enhanced camera technology that provides 18 Megapixel 4K full HD images, there isn't much need for exchanging objectives.

Economic, high end, hardness testing machine, easy to use, continuing a long established reputation.

Measures a large number of hardness scales according to the procedures as stated in the ISO & ASTM standards.



HARDNESS SCALES



VICKERS 500gf - 120kgf also HVD (HVT)



KNOOP 500gf - 5kgf



BRINELL 1kgf - 250kgf

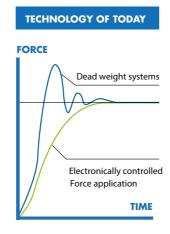




ROCKWELL 3kgf - 150kgf

* For more details on the scales see page 18





Load cell, closed loop, force feedback system



CONVENIENT FORCE RANGE

500gf **NEXUS 7700** 250kgf

HIGHLIGHTS

- 1 Load cell, closed loop, force feedback, load application system.
- 2 Fully automatic test cycle
- 3 18 Megapixels, 4K+ Full HD camera system, with zoom and autofocus
- 4 12" industrial full color touch screen
- 5 Precision Z-axis displacement by ergonomic handwheel
- 6 Adjustable workpiece illumination
- 7 Integrated high performance system controller i7 processor
- 8 Clamp to protect indenter and fix workpiece to anvil or stage
- Manual, motorized stages and/or anvils at choice
- Workpiece accommodation: 340 mm (H) x 205 mm (D)

TECHNOLOGY

Solid performance and lasting reliability

1 INDENTER & OBJECTIVE SWIVEL SYSTEM

The 7700 has an electro-mechanical swivel system that swivels from indenter to objective after each test. It's a proven system that makes it easy to perform a test and requires no operator skills.

Indenters are easy to exchange and are protected by an adjustable and removable clamping system that provides protection to the indenter and holds the workpieces firmly clamped to the anvil.

2 SYSTEM CONTROL

The optical system makes use of top quality objectives that transfer image to an 18 megapixels 4K (Full HD) camera system that on its turn creates crisp images on the 12" industrial touch screen.

The electronic heart of the tester is based around a latest technology system controller running on Windows 10 that includes MSATA hard drives for file storing. The 7700 can be connected to the internet by a wired or wireless connection and if required can be serviced over the internet easily.

3 Z-AXIS

Vertical workpiece positioning can be obtained by running the solid and ergonomic spindle handwheel. The precision spindle allows a large variety of accessories such as tables or anvils to be mounted or inserted.

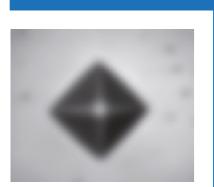
It is also possible to install a CNC X-Y motorized stage or manual X-Y stages, please see the accessories page for more explanation.





AUTOMATIC IMAGE

EVALUATION

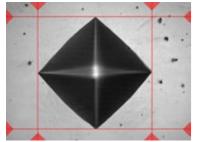




1 AUTO FOCUS

Fast & precise, observe how IMPRESSIONS™ finds focus from a large distance, as far as the travel of the Z-axis allows. Algorithms used for close distance autofocusing set new standards in AF speed.





AUTOMATIC MEASUREMENT

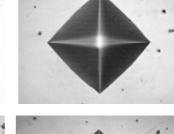
Manual positioning of filar lines is no longer required. IMPRESSIONS™ refined measurement algorithms detect indents even on very poor or scratched surfaces and measure the relevant indent dimensions according to standards. Stay in control by switching to manual measure mode and have the option of adjusting measurements by touching the screen or using the mouse. Filar lines can be colored to give the best contrast against the specimen's surface. To assure that measurements meet relevant standards on symmetry, enable the automatic indent check. All hardness values can be converted to other scales according to ISO 18265, ISO 50150,

Evaluate whatever you want, -because what gets measured, gets produced...

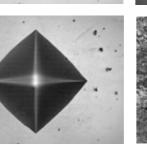


Too bright

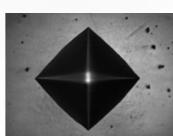




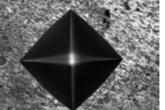
OK











Irregular surface

Regular surface

Poor surface



REFINED IMAGE DETECTION

Complex, refined algorithms ensure reproducible measurements on different materials and even on scratched and damaged surfaces.

IMPRESSIONS operating comfort guarantees less down time

The Graphical User interface (GUI), contains industry preferred applications and offers easy to learn, advanced workflow control. A simple test can be set up and conducted in about 3 seconds... IMPRESSIONS™ layout & functions will match not only your particular application requirements, but also meet the needs and preferences of your operators. A user level management system maximizes their comfort and efficiency.

The unique in the industry, 12" portrait mode, capacitive touch screen, gives room to all possible applications. With this many options in Hardware and Software configuration, yearly updates and on demand upgrades, IMPRESSIONSTM is truly the leading software in the industry.

FEATURED BY IMPRESSIONS v2 ADVANCED SOFTWARE APPLICATIONS





2 CHD, SHD, NHD

For the performance of test series for CHD/SHD/NHD data of specimens according to standard. The test can be started directly from the surface view or from the overview. Additional core points of hardness can be defined separately for NHD measurements. The distances of test points are automatically set to a minimum distance, following the standard, to assure correct testing is conducted. Time saving test mode "complete all indentations – then evaluate" and "auto-stop" to complete test series as soon as the lower hardness limit has been reached.



1 VIDEO OVERLAY GRAPHIC PATTERN EDITOR

The IMPRESSIONS™ pattern editor allows the user to create any number of test patterns with a large number of variable settings. Create test patterns with great precision and freedom. Verify the settings in the preview mode. Drag & drop patterns from one test sample to another sample. Live vision technique over zoom overview camera, no image stitching required. Combine different patterns and even different test forces in one program, and run them fully automatically. All test points can be identified individually or to customer specifications. The label is shown in the test result list and in the test results overview and print out. An important function for later sample analyses.

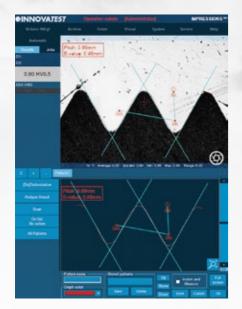


3 Kic CRACK MEASUREMENT

For those requiring more in depth knowledge on materials behavior, and wish to study on fracture and fatigue, crack growth can be predicted (and measured) by using the Kic application. The software supports Kic crack detection under load. At choice, one of both methods, Palmqvist or Median / Radial fracture toughness can be selected.

Easy to operate, time reducing solutions...





HARDNESS OF SCREW THREAD DECARBONIZED ZONE (ISO-898-1)

A specialized software tool of IMPRESSIONS™ allows you to set up and conduct fully automatic testing as per ISO 898-1 for screw thread measurement of (de)-carbonized part.



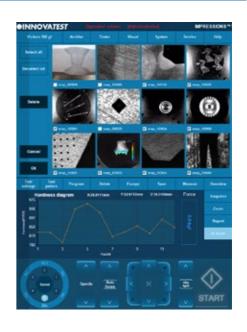
AUTOMATIC EDGE DETECTION

Technology that automatically or at a mouse click recognizes the edge of your sample. This helps to determine and fix the desired starting position for CHD or other pattern testing jobs.



6 SNAPSHOT FUNCTION

This handy function in $IMPRESSIONS^{TM}$ allows you to make screen captures of the viewing area. It gives the opportunity to store such images with comments or to paste them into the report generator for further processing.



1 2 3 4 5 6 7 8 9 0

952 a a d f g h j k l :

8 REPORT GENERATOR

The report generator offers to design customized testing reports, including your company's details and logo and include testing results, graphics and pictures of indentations in an easy to edit environment. The file can be printed straight to a connected laser printer for further distribution. Alternatively the file can be exported as a CSV file, to be used in MS Office applications or 3rd party quality assurance software.



1 USER DEFINED PROGRAMS

For repeating jobs, IMPRESSIONS™ utilizes the option of setting up and storing custom test programs. For each task, a "job" can be created. All application specific parameters, like hardness scale, force, dwell-time, pattern, conversion and the report template are stored in the same program.



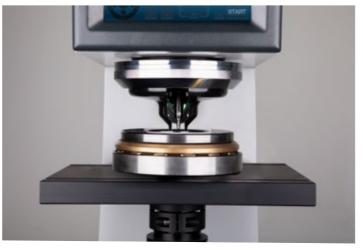


WORKPIECE CLAMP & INDENTER COVER

The NEXUS 7700 is standard equipped with a workpiece clamp that provides adjustable pressure on the workpiece surface and presses the workpiece firmly to the stage or anvil. The clamp also protects the indenter against unwanted damage.

POSSIBILITIES

The 7700 has the option to install a wide variety of anvils, fixtures, flat stages, manual micrometer stages or CNC X-Y motorized stages. In combination with a load application system that ranges from 0.5kgf up to 250kgf the machines can be seen as unique in its class. The very competitive price is justified from a large sales number and an install base of many thousands of machines.















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

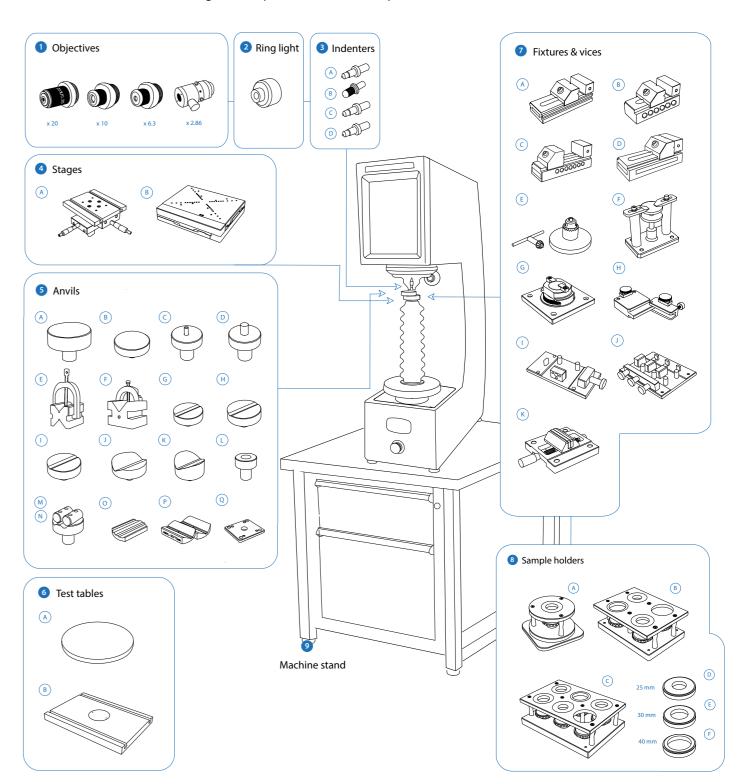
Industrial quality, for workshop or laboratory

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



ACCESSORIES NEXUS 7700

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

NEXUS 7700



	Universal hardness tester, 500gf - 250kgf	NEXUS 7700	
	Plug & Play prepaired, calibration, sea & airworthy packing in "non coniferous wood" material	P&PSEAPACK120	

AC	CESSORIES			
0	Objectives	Objective for 20x (total magnification 140x)	AS7000-08-05	
		Objective 10x (total magnification 70x)	AS7000-08-06	STANDARD
		Objective 6.3x (total magnification 44x)	AS7000-08-07	STANDARD
		Objective 2.86x (total magnification 20x)	AS7000-08-08	
2	Ringlight	Ring light for 7501 and 7700 (suitable for as 7000-08-08 only)	UN-RINGLIGHT 7700	
3	Indenters A	Rockwell diamond indenter, ASTM/ISO certified	IN/6005	
	В	1mm Carbide Ball Indenter Ø6.35mm, ASTM/ISO certified	IN/7000	
		2.5mm Carbide Ball Indenter Ø6.35mm, ASTM/ISO certified	IN/7005	
		5mm Carbide Ball Indenter Ø6.35mm, ASTM/ISO certified	IN/7010	
		10mm Carbide Ball Indenter Ø6.35mm, ASTM/ISO certified	IN/7015	
		1/16" Carbide Ball Indenter, ASTM/ISO certified	IN/7506	
		1/8" Carbide Ball Indenter, ASTM/ISO certified	IN/7606	
		1/4" Carbide Ball Indenter, ASTM/ISO certified	IN/7706	
		½" Carbide Ball Indenter, ASTM/ISO certified	IN/7806	
	C	Macro Vickers Indenter Ø6.35mm, ASTM/ISO certified	IN/8010	
		Micro Knoop Indenter Ø6.35mm, ASTM/ISO certified	IN/8220	
4	Stages	Manual X-Y stage with analogue metric micrometers, 180x160mm Displacement: 25x25mm, scale 0.01mm, max load 300kg	UN-TESTTABLE/030	
		Lock flange	UN-XYZ BUSH55	
		Mounting plate for lock flange	UN-XYZ30FP50-55	
	В	Motorized CNC X-Y stage, 257x188mm, total load up to 400Kgf max. Displacement: 170x120mm, repeatibility +/-0.003mm	UN-XY571210	
		Motorized CNC X-Y stage, 307x208mm, total load up to 400Kgf max. Displacement: 170x120mm, repeatibility +/-0.003mm	UN-XY571712	
		Motorized CNC X-Y stage, 337x188mm, total load up to 400Kgf max. Displacement: 200x100mm, resolution +/- 0.001mm, repeatability +/-0.003mm	UN-XY572010	
		Motorized CNC X-Y stage, 357x208mm, total load up to 400Kgf max Displacement: 220x120mm, repeatability better then 0.003mm	UN-XY572212	
		Motorized CNC X-Y stage, 337X238mm, total load up to 450Kgf max. Displacement: 200x150mm, resolution 0.001mm, repeatibility better then 0.003mm	UN-XY902015	
		Motorized CNC X-Y stage, 437x238mm, total load up to 450Kgf max. Displacement: 300x150mm, resolution 0.001mm, repeatibility better then 0.003mm	UN-XY903015	
		Motorized CNC X-Y stage, 630x238mm, total load up to 450Kgf max. Displacement: 400x150mm, resolution +/- 0.001mm, repeatability +/-0.003mm	UN-XY904015	
		Motorized CNC X-Y stage, 630x238mm, total load up to 4000Kgf max. Displacement: 400x150mm, resolution 0.001mm, repeatibility better then 0.003mm	UN-XY934015	
	Clamping, locking & fixing adapters	Lock flange	AS3000-21-01	

			Mounting plate for lock flange	UN-XYZ30FP50-100
			Cable set for connecting CNC stage to embedded driver (1 set for 2-axis)	UN-XY2CABLENBL
			155cm	
5	Anvils	(A)	Flat anvil 60mm	AS3000-19-04
		(B)	Flat anvil 80mm	UN-TESTTABLE/002
		(C)	Spot anvil 5mm	UN-ANVIL/010
		D	Spot anvil 10mm	UN-ANVIL/011
		E	V block with bracket 40x40x50mm (LxBxH)	UN-VBLOCK404050
		F	Steel, cross type, (X) V-block 60x120x100mm 8-90mm pair	UN-CROSSBLOCK01
		G	V-anvil ø40mm 6-60mm	UN-ANVIL/005
		H	V-anvil ø63mm 6-60mm	UN-ANVIL/006
			V-Anvil ø80mm 3.3-20mm	UN-ANVIL/040
			V-Anvil ø80mm 12-80mm	UN-ANVIL/045
		K	V-Anvil ø80mm 20-140mm	UN-ANVIL/050
			Anvil for round specimen dia. 6-25,4mm	UN-ANVIL/200
		M	Cylindrical V anvil 6-80mm	UN-CVANVIL680
		N	Cylindrical V anvil 50-200mm	UN-CVANVIL50200
			Test table 100x100mm, V grove 20mm wide, 10mm deep	UN-TESTTABLE/040
		0	Small V-Anvil 3-20mm requires base plate (Requires Manual/Autom. X-Y stage)	UN-ANVILSV/105
		P	Large V-Anvil 20-75mm requires base plate (Requires Manual/Autom. X-Y stage)	UN-ANVILLV/106
		Q	Base plate for V-anvils un-anvilsv/105 & 106	UN-VANVILBASEPL
6	Test tables	A	Testing table ø200mm	UN-TESTTABLE/011
			Testing table ø235mm	UN-TESTTABLE/013
		В	Large flat surface testing table 350x250mm, thickness 30mm with 2 T-slots, for large components	UN-TESTTABLE/015
			Large flat surface testing table 450x350mm, thickness 35mm with 2 T-slots, for large components	UN-TESTTABLE/016
			Large flat surface testing table 600x300mm, thickness 25mm, with 2 T-slots, for large light components	UN-TESTTABLE/019
7	Fixtures & 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	Axle chuck 500 series for cylinder parts, dia. 0.4mm to 5mm	UN-AXLECHUCK
		F	Universal Clamp & Leveling Device	UN-CLAMP/105
		G	Thin metal clamp	UN-CLAMP/115
		(H)	V groove clamp for small round parts dia.0.8-5mm (not suitable for test forces over 62.5kg)	UN-VGROOVE- CLAMP
			Wire Testing Fixture	UN-WIRE/105
			JOMINY Fixture, for 1 quench end test sample, quick release function	UN-JOMFIX1
		(K)	JOMINY Fixture, for 3 quench end test sample, quick release function	UN-JOMFIX3
			Small parts vice jaw width 55mm, open 50mm, self centering	UN-VICE/115

8	Sample holders (A)	1 position sample holder, for 1 embedded sample, diameter 50mm or 2	UN-ESH1	
	В	4 position sample holder, for max. 4 embedded samples, diameter 50mm or 2	UN-ESH4	
	C	6 position sample holder, for max. 6 embedded samples, diameter 50mm or 2	UN-ESH6	
	D	1 insert reduction ring 25mm	UN-ESHI25	
	E	1 insert reduction ring 30mm	UN-ESHI30	
	F	1 insert reduction ring 40mm	UN-ESHI40	
		1 insert reduction ring 1	UN-ESHI1	
		1 insert reduction ring 1 1/4	UN-ESHI125	
		1 insert reduction ring 1,5	UN-ESHI15	
9	Machine stand	Cabinet test table with drawer for hardness testers 71x75x70cm	UN-STAND/950	
		Seaworthy packing box for 950/960	PACK/100	
	Printer	Laser Printer	UN-PRINT	
	ISO / ASTM Verification	Direct and Indirect Verification/Calibration & BRINELL Certification in compliance with ISO & ASTM, NADCAP.	CALCEFRDW/1B	
		Direct and Indirect Verification/Calibration & ROCKWELL Certification in compliance with ISO & ASTM, NADCAP.	CALCEFRDW/1R	
		Direct and Indirect Verification/Calibration & VICKERS Certification in compliance with ISO & ASTM, NADCAP.	CALCEFRDW/1V	
		Direct and Indirect Verification/Calibration & VICKERS Certification in compliance with ISO & ASTM, NADCAP.	CALCEFRDW/1K	
	Cover	Anti Static machine cover 450x700x1100mm	UN-TESTERCOVER01	

SOFTWARE STANDARD **UN-MANM** STANDARD Manual & automatic on-screen measurement UN-AUTOFOC Automatic focussing STANDARD Report configurator **UN-REPORTA** STANDARD **UN-SNAPSH** Snapshot function STANDARD Advanced 3 axis coordinate & free style indent pattern configurator, for motorized UN-TESTPAT01 UN-TESTPAT02 Advanced 3 axis coordinate & free style indent pattern configurator, + CHD, SHD, NHD and edge detection, (supports manual & digital micrometer stages only) KiC crack detection under load. Palmqvist & Median / Radial fracture UN-CRKPAR toughness Drawing and measuring (distance & angles) application **UN-DRMEAS** Automatic edge detection **UN-EDGEDTC** Force depth/time diagram **UN-FDDIAGR** ISO 898-1 screw thread measurement of (de)-carbonized part UN-ISO898/1 ISO-2702 tap screw thread measurement UN-ISO2702 UN-LEVMAN User level management STANDARD CHD, SHD, NHD configurator & graphic interface for analogue and digi-UN-MCHD tal micro meter stage only (not including full pattern editor) UN-PATCHD CHD, SHD, NHD configurator & graphic interface requires: indent pattern configurator (TESTPAT01) Q-DAS Certified connectivity protocol **UN-QDAS** Virtual joystick, on-screen STANDARD Advanced 3-axis communication protocol for robotic systems UN-REMC ISO bullets casings pattern configurator and reporting system **UN-SHELLCONF** Connectivity Plus Blue Tooth connectivity UN-BTADAPT UN-SW/905 Utility software; Import test results in MS applications like Excel USB to USB null modem cable 2.5M BE-99-0025 Wireless system Keyboard & wireless mouse UN-SKBSET STANDARD

ACCESSORIES

OBJECTIVES



Objective for 20x (total magnification 140x) Objective 6.3x (total magnification 44x)

Objective 10x (total magnification 70x)





RING LIGHT



Ring light for 7501 and 7700 (suitable for as7000-08-08 only)

INDENTERS



A Rockwell diamond indenter

2.5mm Carbide Ball Indenter Ø6.35mm



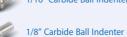
5mm Carbide Ball Indenter Ø6.35mm



10mm Carbide Ball Indenter Ø6.35mm









Macro Vickers Indenter Ø6.35mm

1/2" Carbide Ball Indenter

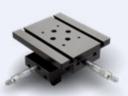
1/4" Carbide Ball Indenter



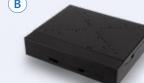
D Micro Knoop Indenter Ø6.35mm

STAGES





UN-TESTTABLE/030



UN-XY903015

UN-XY571210 UN-XY904015 UN-XY571712 UN-XY932015 UN-XY572010 UN-XY572212 UN-XY902015

ANVILS





























AS3000-19-04 UN-TESTTABLE/002 UN-ANVIL/010









UN-ANVIL/040 UN-ANVIL/006











TEST TABLES



UN-TESTTABLE/011 UN-TESTTABLE/013



UN-TESTTABLE/015 UN-TESTTABLE/016 UN-TESTTABLE/019

FIXTURES AND VICES



UN-VICE/210



UN-VICE/215



(K)





UN-VICE/220







UN-CLAMP/115



UN-WIRE/105



UN-AXLECHUCK



UN-JOMFIX3

UN-CLAMP/105



UN-VICE/115



SAMPLE HOLDERS



MACHINE STAND



SPECIFICATIONS

HARDNESS SCALES



ROCKWELL EN-ISO 6508 ASTM E-18 JIS Z 2245	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
VICKERS ISO 6507 ASTM E384, E92 JIS B 7725	HV0.5 HV1 HV2 HV2.5 HV3 HV4 HV5 HV10 HV20 HV25 HV30 HV40 HV50 HV1 HV120 HV150
Kic Fracture toughness	All Vickers forces & scales
ISO 4545 ASTM E92 JIS Z 2251	HK0.5 HK1 HK2 HK5
BRINELL ISO 6506, ASTM E10 JIS Z 2243	HBW1/1 HBW1/1.25 HBW1/2.5 HBW1/5 HBW1/10 HBW1/30 HBW1/31.25 HBW2.5/6.25 HBW2.5/7.8125 HBW2.5/15.625 HBW2.5/31.25 HBW2.5/62.5 HBW5/25 HBW5/31.25 HBW5/62.5 HBW5/125 HBW5/250 HBW10/100 HBW10/125 HBW10/250
PLASTIC	49 N, 132 N, 358 N, 961 N
ISO 2039	
CARBON	HR 2.5/7 HR 5/7 HR 5/20 HR 5/40 HR 5/60 HR 5/100 HR 5/150 HR 10/20 HR 10/40 HR 10/60 HR 10/100 HR 10/150
HVD (HVT)	HV5 HV10 HV20 HV30 HV50 HV100 HV120
HBD (HBT)	HBW1/5 HBW1/10 HBW1/30 HBW2.5/6.25 HBW2.5/15.625 HBW2.5/31.25 HBW2.5/62.5 HBW2.5/187.5 HBW5/25 HBW5/125 HBW5/250 HBW10/100
CONVERSIONS	Conversion to other hardness scales according to ASTM E140, ISO 18265, GB/T 1172

TEST FORCE



Force application	Loadcell closed loop, force feedback system
Test forces	0.5kgf – 250kgf
Test force tolerance	< 0.5%
Dwell time settings	1 - 250 seconds

SYSTEM



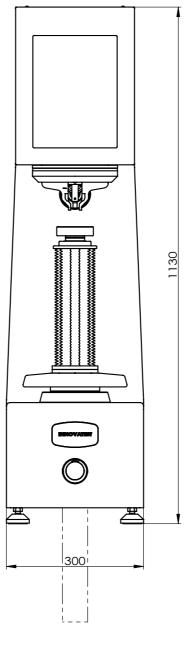
Electronic system Standard (Recommended)	High performance embedded controller, i7, mSSD 120 GBxx, MS Windows® 10 operated , up to 8 years* INNOVATEST warranty
Electronic system (Optional)	High performance external controller, i7, mSSD 120 GBxx, MS Windows® 10 operated, 1 year factory warranty
Screen(s)	12" full colour touch screen
Display resolution	0.01 HV, HK, HB
Statistics	Total test, max, min, average, range, standard deviation, All in real time after each test
Hardness conversion	Rockwell, Rockwell Superficial, Vickers, Brinell, Knoop, Leeb & Tensile
Software	No. of tests, Mean, St. Deviation, Min., Max., Range, CP, CPk, individual readings list, storage memory, Dwell time, test force setting, scale selection, calibration etc.
Data output	XML, CSV, Certified for Q-DAS (Optional)
Connectivity	4 USB ports, RJ45 Ethernet LAN, W-LAN, RS-232, Blue Tooth

GENERAL



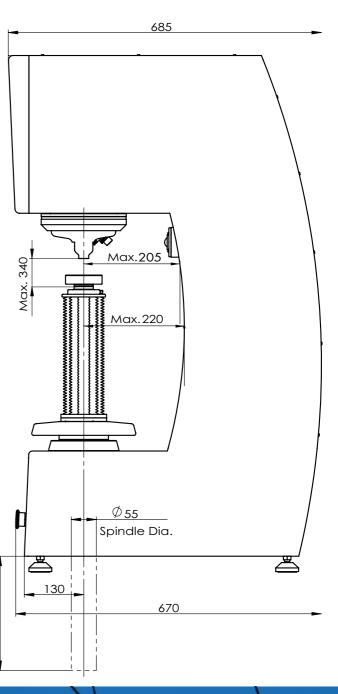
Machine dimension	300mm x 670mm x 1130mm
Machine weight	178 kg
Power supply	100VAC to 240VAC, 50/60Hz, single phase
Operating temperature	10°C to 35°C, non-condensing
Power consumption	100W
Humidity	10% to 90%, non-condensing

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.



OTHER MODELS IN THE

UNIVERSAL RANGE



NEXUS 605U

Fully automatic, load cell, closed loop, force feedback universal hardness tester with electronic micrometer or analogue eyepiece. i-Touch, 6.5" full color touch screen.

See brochure B19N605U/XX



NEMESIS 5100

Multi Load Cell, Closed loop Fully automatic, 8 position turret Rockwell, Superficial Rockwell, Micro/Macro Vickers, Knoop & Brinell Hardness testers Descending test head, fixed work piece position See brochure B18N5100/XX



VERZUS 750CCD

Fully automatic, load cell, closed loop, force feedback universal hardness tester with electronic micrometer or analogue eyepiece. IMPRESSIONS™ 8.5″ full color touch

See brochure B19V750CCD/XX



NEXUS 8100

Heavy duty fully automatic, load cell, closed loop, force feedback universal hardness tester with full HD optical zoom stage overview camera, IMPRESSIONS™ 15" full color touch screen. See brochure B19N8100/XX



NEXUS 8100XL

Heavy duty fully automatic, load cell, closed loop, force feedback universal hardness tester with full HD optical zoom stage overview camera, IMPRESSIONS™ 15" full color touch screen. See brochure B19N8100/XX



NEMESIS 9600

Heavy duty fully automatic, load cell, closed loop, force feedback universal hardness tester with full HD optical zoom stage overview camera, IMPRESSIONS™ 15" full color touch screen. See brochure B19N9600/XX



NEMESIS 9100

Multi Load Cell, Closed loop Rockwell, Superficial Rockwell, Micro/Macro Vickers, Knoop & Brinell Hardness testers Descending test head, fixed work piece position



Fully automatic, 8 position turret See brochure B18N9100/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 B18N7700/03/EN

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