

VERZUS 700AS



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Universal hardness tester

Heavy duty, load cell, closed loop, force feedback system, no weights, automatic load setting

Microscope with digital eyepiece

Specimen lighting with adjustable illumination levels

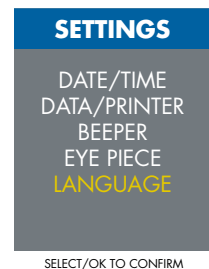
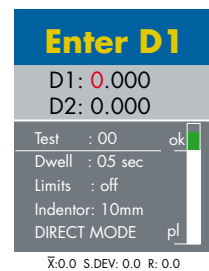
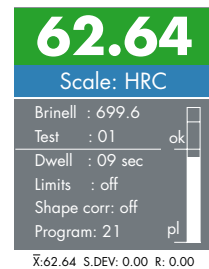
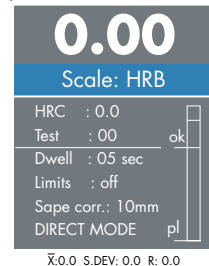
Adjustable workpiece clamping attachment, indenter protection

Precision elevator spindle allows large workpiece accommodation (vertical capacity 300mm, horizontal capacity 200mm)

Heavy duty spindle cover

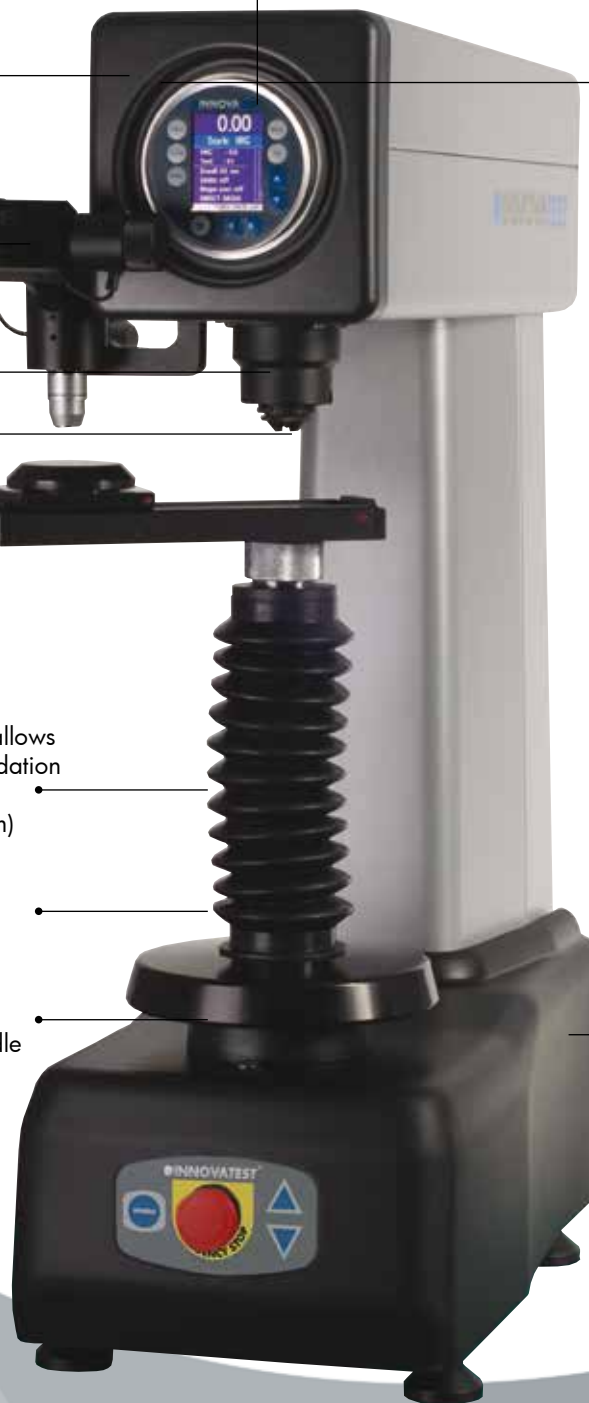
Ergonomic handwheel operation (Motorized spindle optional)

Full color multi-function OLED display



Connectivity: USB-2

ABS shockproof machinecovers, available in multi-colors



General information

The VERZUS 700 series are a new generation of hardness testing instruments. The testers are constructed around a rock solid C-frame with unparalleled rigidity. The closed loop system based on a load cell and precision force actuator guarantees the best GR & R results ever seen on Rockwell hardness testers. The tester meets or exceeds the ISO, ASTM and JIS standards and conforms to Nadcap auditing.

Test forces range from 1kgf/9.8N to 250kgf/2.45kN, Advanced algorithms, digital filter technology and state of the art electronics provide unmatched force control. The test cycle can be as little as 13 seconds (at a dwell time of 10 seconds).

Depth measurement via an optical system with a direct reading of **0.1 micron**.

VERZUS stands for versatile. Even the most basic model is equipped with Rockwell, Superficial Rockwell, HVT, HBT and Depth ball measurement. All models include plastic testing scales according to ISO 2039.

For demanding users the VERZUS can be equipped with a motorized spindle that lifts your work piece, without any effort, to the required testing position.

Models **AS** have a built on electronic microscope with various objectives and a work piece sliding table. This combination allows full scale testing, as it adds not only Brinell, but also Vickers scales to the field of application.

Ideal for smaller workshops, educational purposes and for those who want to be versatile in hardness measurement.

The outer skin of the tester is made of recyclable top class materials. The base is covered by a ABS shell that can withstand the harshest environments. No damage from falling testblocks or workpieces.

VERZUS if being certain is your priority!

Features

- Load cell, force feedback, closed loop system
- Unparalleled rigidity
- Unmatched GR & R results
- Load range 1kgf/9.8N up to 250kgf/2.45kN
- Fully automatic operation
- Meets or exceeds ISO, ASTM and JIS standards
- Shape correction settings for curved surfaces
- Optical depth measuring system (Rockwell, HBT, HVT, Ball indentatio for plastic ISO 2039/1)
- OLED full color user-friendly interface, easy to operate
- Go/No Go function with visual and acoustic warning
- Large memory for measurements with statistic results
- Easy calibration function
- Testing program storage
- Standard nose cone clamping attachment
- Printer & USB-2 output
- Built on Vickers/Brinell microscope with LED ring light (Optional)
- Work piece sliding table
- Large work piece accommodation
- Motorized spindle (Optional)

Technical specifications

VERZUS 700AS	
Hardness scales	Rockwell, Superficial Rockwell, Brinell, Vickers, HVT, HBT and Ball indentation for plastic ISO 2039/1
Load application	Load cell, force feedback, closed loop system
Load range	1kgf/9.8N to 250kgf/2.45kN
Test loads	1kgf/9.8N, 2kgf/19.6N, 2.5kgf/24.5N, 3kgf/29.4N, 4kgf/39.2N, 5kgf/49N, 6.25kgf/61.29N, 10kgf/98N, 15kgf/147N, 15.625kgf/153.2N, 20kgf/196.13N, 25kgf/245.16N, 30kgf/294.19N, 31.25kgf/306.45N, 45kgf/411.29N, 50kgf/490N, 60kgf/588.4N, 62.5kgf/612N, 100kgf/980.7N, 120kgf/ 1176.79N, 125kgf/1225N, 150kgf/1471N, 187.5kgf/1838N, 250kgf/2.45kN
Vickers test range	HV: 1kgf/9.8N, 2kgf/19.6N, 3kgf/29.4N, 4kgf/39.2N, 5kgf/49N, 10kgf/98N, 20kgf/196.13N, 30kgf/294.19N, 50kgf/490N, 100kgf/980.7N, 120kgf/ 1176.79N HVT: 50kgf/490N, 100kgf/980.7N
Brinell test range	HB1: 1kgf/9.8N, 2.5kgf/24.5N, 5kgf/49N, 10kgf/98N, 30kgf/294.19N HB2.5: 6.25kgf/61.29N, 15.625kgf/153.2N, 31.25kgf/306.45N, 62.5kgf/612N, 187.5kgf/1838N HB5: 25kgf/245.16N, 62.5kgf/612N, 125kgf/1225N, 250kgf/2.45kN HB10: 100kgf/980.7N, 250kgf/2.45kN HBT2.5: 62.5kgf/612N, 187.5kgf/1838N HBT: 5kgf/49N, 250kgf/2.45kN
Rockwell test scales	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V, 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y
Plastic Ball indentation	According to ISO 2039/1
Optical system	Built on electronic microscope with 3 objectives and LED ring light (optional)
Objectives	Interchangeable 2.5x, 5x and 10x magnification
Eyepiece	15x magnification
Scale resolution (depth)	0.1 micron
Display	Full color OLED display, testing results, statistics, built-in hardness calculator, program overview, settings, calibration, and many more
Standards	Meets or exceeds, ISO, ASTM, JIS (Nadcap) standards
Test cycles	Fully automatic, Load, Dwell, Unload
Indentors (optional)	Rockwell Diamond Cone: 120° Rockwell balls: 1/16", 1/8", 1/4", 1/2" Vickers Diamond: 136° Brinell/Balls: 1mm, 2.5mm, 5mm, 10mm Some are optional
Dwell time	1 - 99 seconds
Connectivity	USB-2 (RS-232)
Workpiece accommodation	Vertical capacity 300mm (240mm with sliding table), Horizontal capacity 200mm (from center-line)
Operating temperature	10°C to 35°C, non-condensing
Machine dimensions	290mm x 592mm x 845mm (WxDxH)
Machine weight	96kg
Power supply	100V AC to 240V AC, 50Hz/60Hz, single phase

Standard delivery

- Flat anvil, hardened, $\varnothing 60\text{mm}$
- V-anvil, hardened, $\varnothing 80\text{mm}$
- Sliding testing table
- Fuse 3A slow (2 pcs)
- Power cable
- Objectives 2.5x, 5x and 10x
- Four adjustable feet
- Built on microscope
- INNOVATEST® certificate
- Installation and user manual

Optional accessories

- Certified indentors (ASTM, DIN, ISO)
- Certified reference hardness blocks (ASTM, DIN, ISO)
- LED ring light for dark field illumination
- Testing table, hardened, $\varnothing 180\text{mm}$
- Large testing table 350mm x 250mm with T-slot and spindle adapter
- Custom testing tables
- Goose neck indenter holder
- Precision vice for small parts, jaw width 36mm
- Precision vice for small parts, jaw width 42mm
- Precision vice for small parts, jaw width 75mm
- V-blocks and special clamps
- Manual X-Y stage 100mm x 60mm, micrometer travel 25mm x 25mm
- Manual X-Y stage with micrometers 25mm x 25mm, mounted on sliding table
- Motorized spindle operation
- Solid tester table and storage cabinet
- 700STARTKIT/1:
Testing table, hardened, $\varnothing 180\text{mm}$
set of factory reference hardness test blocks,
set of factory indentors



Round test table



Extra large working table

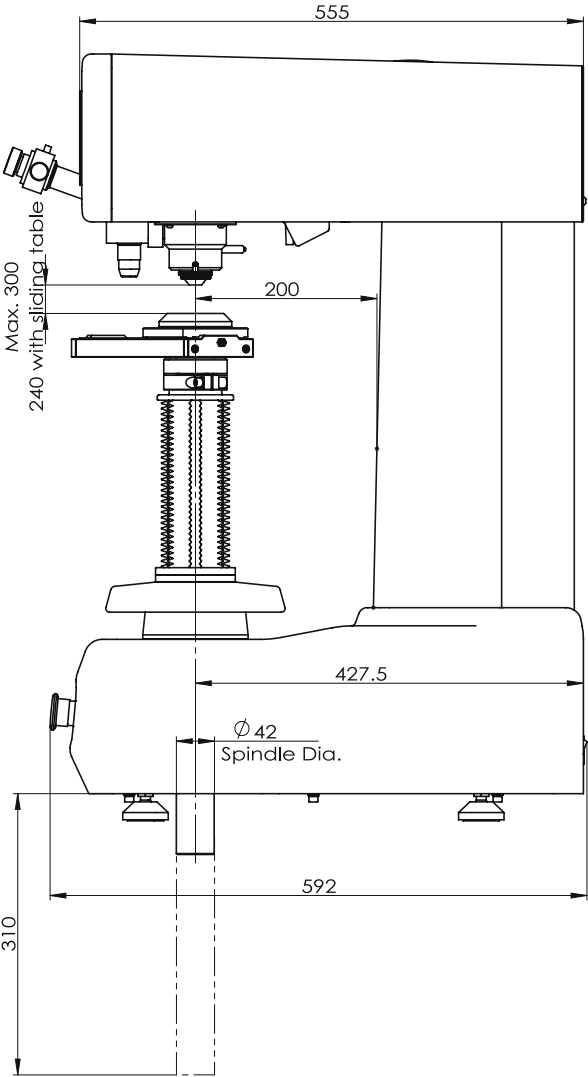
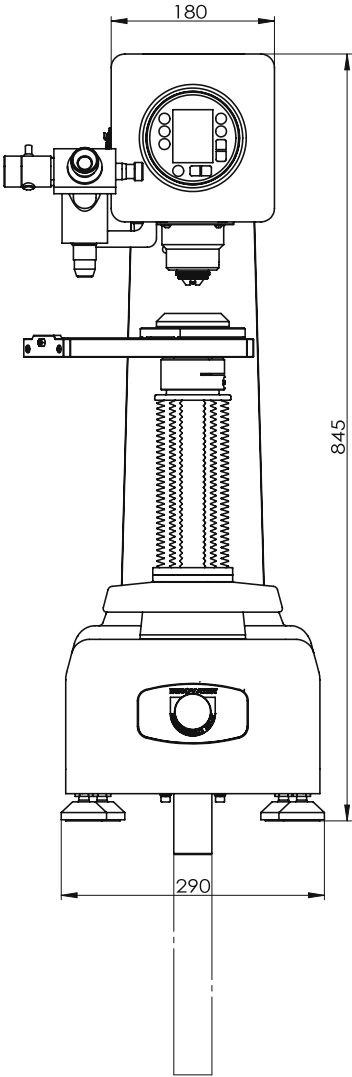
Order details

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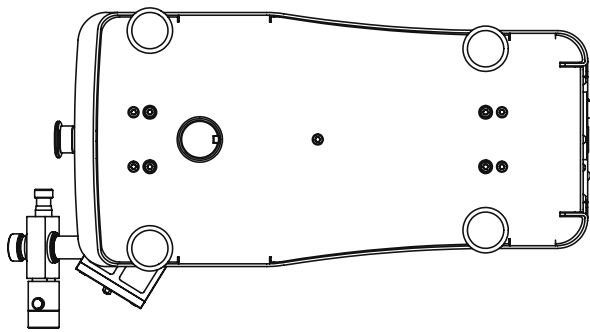
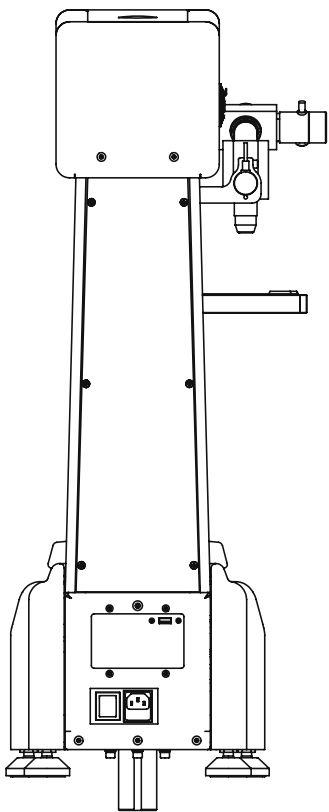
Rockwell, Superficial Rockwell, Brinell, Vickers, HVT, HBT,
Ball indentation for plastic ISO 2039/1,
test forces 1kgf/9.8N to 250kgf/2.45kN

Technical drawing VERZUS 700AS

All dimensions are in mm



All dimensions are in mm



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