

PROMOTION OFFERS

2011/1

- Hardness testers
- Surfaces roughness testers
- Coating thickness gauges
- Ultrasonic thickness gauges
- Vibration measurement
- Concrete testers
-

Valid for new orders from
17/02/2011 to 30/04/2011



PROMOTION OFFER

NET PRICES FOR DISTRIBUTORS ONLY!



All instruments in our range are covered by **2 years limited guarantee.**

Portable testing instruments have an additional **3 years FREE recalibration service.**

Simply send the instrument to our company with a calibration request and we will return the unit to you, calibrated according to traceable standards, with a new 1 year valid certificate.

890 €

Portable hardness tester

- Leeb principle, portable rebound hardness tester
- Hardness values in Leeb HLD, Rockwell HRB, HRC, Vickers HV, Brinell HB, Shore HS
- Test results appear directly on the display
- Impact Device D integrated: no cables
- Tests at any angle, even upside down
- Rechargeable Li-on battery
- Simple handling and low test expenditure

TH-1100



TH-170

Portable hardness tester

- Most sold range of portable hardness tester in the world. Superior quality and reliability. Impact device D integrated
- Leeb HL, Rockwell HRB, HRC, Vickers HV, Brinell HB, Shore HS

1295 €



TH-172

Portable hardness tester

- Impact device C applying low impact energy for surface hardened components and thin walled components
- Leeb HL, Rockwell HRB, HRC, Vickers HV, Brinell HB, Shore HS

1495 €



TH-174

Portable hardness tester

- Impact device DL for testing confined spaces
- Leeb HL, Rockwell HRB, HRC, Vickers HV, Brinell HB, Shore HS

1795 €

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Portable hardness tester

- Hand-held device with a rugged shock-resistant housing
- Large and clear display with adjustable contrast and backlight
- Converts directly to HV, HB, HRC, HRB, HRA, HS
- Highly accurate ± 4 HL (0.5% at 800 HL) with automatic correction for impact direction
- Simple operating menu structure and extensive on-screen help files
- Internal storage up to 2500 batches of data
- Up to 10 wireless impact device, each can store 500 groups on main unit
- Wireless Impact device D stores over 500 groups of data
- Wired Impact device D included in standard delivery
- Down-/upload data from/to PC via USB, Ethernet or RS-232
- The instrument works with different kind of wireless slave units, such as impact device Dw, Cw and DLw
- The data of the slave unit is transferred to the instrument via bi-directional wireless communication
- Six impact devices are available for special applications



DYNAMIC TH-180D

2500 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!



1150 €

ROCKY TH-110D

Portable hardness tester

- World famous ROCKY portable hardness tester **with 3 years free of charge calibration service**
- Built-in printer
- Correction for impact direction 360 degrees
- Display scales HL, HRC, HRB, HV, HB, HS and conversion to tensile strength
- Six impact devices are available for special applications



1330 €

ROCKY TH-160D

Portable hardness tester

- The TH-160 is one of the most popular hardness testing instruments in our range. The unit is menu operated and offers many advanced functions
- Rockwell HRB, HRC, Vickers HV, Brinell HB, Shore HS, Leeb HL
- Conversion to tensile strength ab (U.T.S.)
- RS-232 interface (to hyperterminal)
- Integrated thermal printer
- Six impact devices are available for special applications

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WEBSTER WH100

Portable hardness tester

- The WEBSTER hardness method is ideal for sheet metal, sheet aluminum and other thin materials
- Test is made by simply applying pressure to the handles until "bottom" is felt
- Easy-to-read dial indicator with 20 graduations, permits use of the tester as "Go" and "No-Go" gauge
- Tests materials up to 13mm in thickness

1100 €



BARCOL INBC-01

Portable hardness tester

- This unit is also known as the "Impressor"
- Complies to ASTM B648-2000
- Used to test the hardness of all kinds of aluminum, from very soft aluminum to very hard aluminum alloys
- High sensitivity
- Featured with 100 segments scale

930 €



MAGNETIC ROCKWELL INMR-01

Portable hardness tester

Magnetic base hardness tester designed according to the principle of Rockwell hardness testing.

The test head can be fixed to the surface of iron and steel components by magnetic force.

Support to the test piece is not required as the 350kg+ magnetic base will hold the unit firmly in position.

The testing accuracy complies to ISO 6508 or ASTM E18 and is comparable to a Rockwell bench hardness tester.

Testing can be done regardless of the shape of the component as long as there is a flat surface for positioning of the magnetic base.

Able to test large-size workpieces which are assembled, unable to cut or inconvenient to move such as the large-size moulds, steel plate, steel tube, steel structure, boiler, pressure vessel, metallic pipe lines or the slide ways of machine tools.

2260 €

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HB1500

Brinell

- Solid fine finished C-frame
- Load applied comparable to 10mm ball at 3000kgf
- Easy to operate, also under difficult and harsh conditions
- Tolerance of test force <0.5%
- Test force is controlled by a shear pin
- Two types of application: C clamp and hammer impact
- Suitable for assemblies inconvenient to be taken to the lab and not allowed to be cut

- Accuracy of the hammer configuration is much higher than any other type hammer impact tester
- Used to test the hardness of forgings, castings, steels, nonferrous metal and its alloy products, and to test the hardness of annealed, normalizing and tempered mechanical parts

1380 €



INCLUDES:

- MICROSCOPE WITH LED ILLUMINATION
- TESTBLOCK

2860 €

Brinell

- Permanence Impression can be checked and rechecked anytime
- Accuracy Calibrated to 0.5 of 1% of load;
Can be used for higher loads up to 3000kg;
Breaks through surface heat treatment to get to the core of the material
- Versatility Can be used in virtually any position;
right-side up, upside down or sideways
- Durability Some portable Brinell testers have been working over 60 years

HB120

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HV400



Ultrasonic Contact Impedance system (Vickers)

- Ultrasonic Contact Impedance test principle, fast, accurate, easy to use in confined spaces
- Suitable for hardness tests on metals, plastics, ceramics
- Direct reading in Vickers HV, and direct conversion to HRC, HRB, HB & UTS
- High reproducibility, tolerance within $\pm 1\%$
- Extensive range of application at locations difficult to access
- Large memory, statistics and multiple data outputs
- Optional dynamic rebound hardness impact devices available
- Windows software for testing, remote control, data processing and file storing

5900 €



MET-U1A

Ultrasonic Contact Impedance system (Vickers)

- Hardness measurements of metals and alloys on standardized hardness scales: Rockwell (HRC), Brinell (HB), Vickers (HV) and Shore (HSD)
- Three additional scales H1, H2, H3 for calibration of self defined hardness scales
- Rm scale for determination of tensile strength
- Typically suitable for components that are inaccessible for dynamic hardness testers (small articles, structures with thin walls, pipes, reservoirs, steel sheets etc.)

3260 €

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HS100

Shore A

- Testing rubber, plastic, leather and all other soft materials
- Fast and easy to read
- Portable
- Easy to use

180 €



THS-200/A

Shore A

- Pocket size model with integrated probe
- Meets DIN 53505, ASTM D 2240, ISO 7619
- RS-232 data output
- Operating stand optional
- Bright and clear LCD display
- 300 hours continuous use with standard batteries

449 €



THS-210/D

Shore D

- Pocket size model with integrated probe
- Testing hard rubber, plastic and other soft materials
- According to DIN 53505, ASTM D 2240, ISO 7619, JIS K7215
- RS-232 data output
- Operating stand optional
- Bright and clear LCD display
- Automatic switch off
- Battery low indication

599 €



DSAS001/DSDS001

Shore A or Shore D

- Testing rubber, plastic, leather and all other soft materials
- Large digital display, digits 8mm high
- Use by hand or mounted on a stand
- Supplied with a reference block
- Data output for SPC
- Power on/off automatic
- Electronic module protection to IP65, even with data output
- Can be used in conjunction with Shore bench stand

529 €

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TR-110

Surface roughness tester

- Both Ra and Rz parameters in one instrument
- LCD with back-light, dynamic test display: progress bar gives indication of measuring process
- Protection slide on pick-up
- Auto-off after 90 seconds
- Software calibration
- Large measuring range suitable for most materials
- Piëzo-electric pick-up stylus for external surfaces

929 €



R130

Surface roughness tester

- Swivel stylus roughness tester, allows testing in different directions and confined spaces
- Protruding pick-up stylus allows external and internal surface finish testing
- Ra and Rz parameters or parameter on request
- Standard cut-off 0.8mm, adjustable to 1-3-5 times
- Piëzo-electric pick-up stylus for external surfaces with diamond tip of 2 micron according to the latest ISO standards

- R135 with data output to printer or PC
- Standard 9V battery

1180 €

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Surface roughness tester

- Measures Ra, Rz, Ry, Rq, Rt, Rp, Rmax, Rv, R3z, RS, RSm, RSk, Rmr roughness parameters, digital filters
- Easy to operate menu software
- Graphical display on large LCD shows roughness graphics and statistics
- DYNAMIC, inductive pick-up stylus
- Pick-up stylus position indicator
- Auto-off after 5 minutes, with auto-store
- Data output RS-232 to printer or PC
- Excellent battery power with Li-ion technology
- Including free software
- Optional pick-up for grooves/bores and holes

TR-200

1595 €



TR-220

Surface roughness tester

- Measures Ra, Rz, Ry, Rq, Rt, Rp, Rmax, Rv, R3z, RS, RSm, RSk, Rmr, Rpc, Rk, Rpk, Rvk, Mr1 & Mr2 roughness parameters, digital filters
- Easy to operate menu software
- Graphical display on large LCD shows roughness graphics and statistics
- DYNAMIC, inductive pick-up stylus
- Pick-up stylus position indicator
- Auto-off after 5 minutes, with auto-store
- Data output RS-232 to printer or PC
- Excellent battery power with Li-ion technology
- Optional pick-up for grooves/bores and holes

1695 €

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TR-300

4950 €

Surface form & finish tester

- Measures Roughness, Waviness and primary profile; Ra, Rp, Rv, Rt, Rz, Rq, RSk, Rku, Rc, RS, RSm, Rlo, RHSC, R_{pc}, R_{mr(c)}, RzJIS, R3y, R3z, Wa, Wp, Wv, Wt, Wz, Wq, WSk, Wku, Wc, WS, WSm, Wlo, WHSC, W_{pc}, W_{mr(c)}, WzJIS, Pa, Pp, Pv, Pt, Pz, Pq, PSk, Pku, Pc, PS, PSm, Plo, PHSC, P_{pc}, P_{mr(c)}, PzJIS, Rk, Rpk, Rvk, Mr1, Mr2 according to ISO / DIN / ASTM and JIS standards
- Cut-off length 0.08, 0.25, 0.8, 2.5, 8mm
- LCD, digital graphic display
Skidded and skidless pick-ups available
Memory for 10 groups of primary data
- Advanced Windows software available for data evaluation and storage
- RS-232 and USB connectivity



**UNTIL END
OF STOCK**

R190

Bench Top Surface finish tester

- Universal roughness testing station with granite base and X-Y test table for flat and round specimen skidless method, inductive interchangeable pick-up stylus
- Rigid structure suitable for shop floor or laboratory use
- Measures Ra, Rz, Rt, Rp, Rv, Rq, RSm, RmaxD, Material bearing ratio curve
- Multiple styli available, standard delivery with long and short stylus
- Additional roughness parameters available on request
- Conforms to international standards ISO, DIN, ASME, JIS
- Comes with PC, LCD screen, mouse and keyboard

6180 €

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TT-210

Coating thickness gauge F/N

- Pocket type, easy to use menu structure
- Integrated probe F/N
- Measurement modes: continuous/single
- Automatic calculation: Mean/Max/Min/No./S.Dev
- Upper-lower limit setting and sound alarm
- Data output RS-232 to printer TA-230 or PC
- Storage function for 500 measuring results
- Automatic substrate recognition
- Statistics
- Battery operated

590 €



TT-211

Coating thickness gauge F

- Ferrous only, ideal for car painters
- Integrated probe F
- Auto off
- Mm/inch selectable
- Battery operated

360 €



TT-220

Coating thickness gauge F probe

- For ferrous substrates
- Economic type, integrated probe, no cables
- Continuous or single measurement modes
- Statistics
- Real time or batch printing with TA-230 printer
- Rechargeable batteries

349 €



TT-230

Coating thickness gauge N probe

- For insulating coatings on non ferrous substrates
- Economic type, integrated probe, no cables
- Continuous or single measurement modes
- Statistics
- Real time or batch printing with TA-230 printer
- Rechargeable batteries

390 €

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TT-260
INCLUDING PROBE
AND PRINTER

Coating thickness gauge

- Robust design with removable integral printer
- Large measuring range with several probes such as F, FN etc. available
- Direct testing mode and batch statistics mode (APPL/BATCH)
- Direct print out of statistical values
- Data transmission to pc with Dataview software

F - 790 €

N - 890 €

FN - 990 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!



TT-100

Ultrasonic thickness gauge

- Easy to operate ultrasonic wall thickness gauge
- Suitable for metal, glass, homogeneous plastics
- Standard 5 MHz transducer included
- Sound velocity range up to 9999m/s
- Clear 4-Digit LCD display
- Display resolution 0.1 mm
- Memory for 10 readings
- 5 pre-set sound velocities for repeating applications

580 €



TT-110

Ultrasonic thickness gauge

- Easy to operate ultrasonic wall thickness gauge
- Special model **for steel only**
- Standard 5 MHz transducer included
- Clear 4-Digit LCD display
- Display resolution 0.1 mm
- Mm/inch selectable

540 €



TT-120

Ultrasonic thickness gauge

- Easy to operate ultrasonic wall thickness gauge
- Special model featuring high-speed test mode for high temperature steel surfaces up to 300°C
- Standard ZW5P shielded transducer (high temperature) included
- Clear 4-Digit LCD display
- Display resolution 0.1 mm

790 €



TT-130

Ultrasonic thickness gauge

- Easy to operate ultrasonic wall thickness gauge with enhanced 0.01mm reading
- Suitable for metal, glass homogeneous plastics
- Standard 5 MHz transducer included
- Sound velocity range up to 9999m/s
- 5 pre-set sound velocities for repeating applications
- Clear 4-Digit LCD display
- Memory for 10 readings

790 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!



TT-300

Ultrasonic wall thickness gauge

- Easy to operate ultrasonic wall thickness gauge for metals, glass, plastics etc.
- Range 1.2mm to 225mm (steel)
- Display resolution selectable over menu
- Large internal memory for 500 readings
- Including protection case, couplant and carrying case
- Min. mode for minimum thickness measurement
- Automatic zero setting
- Two-point calibration possible
- LCD display with backlight
- Mm/inch selectable
- Data output RS-232

995 €



TT-300A

Ultrasonic wall thickness gauge

- Easy to operate ultrasonic wall thickness gauge for metals, glass, plastics etc.
- Special model for testing thickness of high temperature steel surface up to 300°C
- Including protection case, couplant and carrying case
- Range 0.75mm to 225mm (steel), high accuracy
- Display resolution and mm/inch menu selectable
- Min. mode for minimum thickness measurement
- Large internal memory for 500 readings
- Manual zero
- Two-point calibration possible
- LCD display with backlight
- Data output RS-232

1050 €



TT-310

Ultrasonic thickness gauge

- Easy to operate ultrasonic wall thickness gauge for metals, glass, plastics
- Range 1.2mm to 225mm (steel)
- Automatic zero setting
- Two-point calibration possible
- LCD display with backlight
- Min. mode for minimum thickness measurement
- Large internal memory 500 readings
- Mm/inch selectable

950 €



TT-320

Ultrasonic thickness gauge

- Special model for testing thickness of high temperature steel surface up to 300°C
- Min. mode for minimum thickness measurement
- Two-point calibration possible
- Automatic zero setting
- LCD display with backlight
- Large internal memory 500 readings
- Mm/inch selectable

1200 €



TT-340

Ultrasonic thickness gauge

- Easy to operate handheld ultrasonic thickness gauge especially casting materials
- Min. mode for minimum thickness measurement
- Two-point calibration possible
- Automatic zero setting
- LCD display with backlight
- Large internal memory 500 readings
- Mm/inch selectable

1400 €

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TT-500

Ultrasonic thickness gauge

- A-Scan method for waveform verification
- Echo-echo mode to determine the distance excluding the coating between two echoes
- Two Alarm modes: Standard High-Low and Previous thickness
- Two Differential modes: Thickness difference between actual measuring and reference value; Percent difference between actual measuring and reference value
- Min. and Max. mode
- Wide thickness range (0.75-508mm)

2100 €



TT-700

Ultrasonic thickness gauge

- Especially suitable for testing thin workpieces
- Range 0.15mm to 20mm
- I-E testing mode and E-E testing mode
- Sound velocity testing and single point calibration
- Sound alarm and differential mode are available
- Data store, view and delete
- Results can be print out and transferred to PC
- Mm/inch selectable

2779 €



TC-100

Concrete tester

- Detection of rebar and other metal building elements (such as steel pipes) and their orientation
- Easy and accurate measurement of concrete cover depth and rebar diameter
- Self correction function for the influence of neighbouring bars
- Large LCD display with backlight
- RS-232 output and data memory
- Metric or imperial (mm/inch) setting
- Optical as well as acoustic position signals

1640 €



TC-200

Concrete tester

- Entire English display, clear and easy to use
- Direct digital read out of the crack depth
- Use special bracket to ensure the accuracy of two testing points
- Data base to store and manage completed test data for analysis reporting RS-232 interface to PC

1990 €



TC-300

Concrete tester

- Measuring the thickness of concrete
- No coupling agents required
- Works through paint and most types of bonded tile
- Easy to read LCD backlit display
- Displays in mm or in inches
- Download data to excel
- RS-232 and USB connectivity
- Built-in Data storage and Data logging
- Memory for 32,000 tests and 4,000 components identification

1990 €

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TV-100

Vibration tester

- Compact analyzer with built-on printer for predictive maintenance of production machinery
- For checking of unbalance, misalignment, bearings and gears
- Storage capacity for 10 tests results
- Piezo-electric accelerometer with magnetic base
- Large frequency range
- Rechargeable batteries and charger included

860 €



TV-200

Vibration tester

- Used for fast failure detecting of motor, electric fan, pump, air compressor, and machine tool bearings
- For quick checking direct test results, clearly displayed
- Guard against mechanical malfunction
- Automatic switch-off after 40 seconds

280 €



TV-300



Vibration tester

- Analyzer of acceleration, velocity, displacement, rotation speed, frequency
- Three display modes; common mode display, velocity in RMS and displacement in peak-to-peak; special mode display all the above options simultaneously; Spectrum mode displays spectrum charts
- Memory for 25 x 62 readings and 25 spectral charts
- RS-232 output for printer TA-230 or PC (optional software)

1750 €

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VG100

Vibration tester

- Basic compact analyzer for predictive maintenance of production machinery
- For checking of unbalance, misalignment, bearings and gears
- Integrated accelerometer
- Low frequency mode Lo-RMS to test low vibrations
- High frequency mode to test average acceleration (Hi AVE) and single peak displacement (Hi PEAK)

580 €



VG110

Vibration tester

- Basic compact analyser for predictive maintenance of machinery
- For checking of unbalance, misalignment, bearings and gears
- External accelerometer with cable and magnetic base
- Low frequency mode Lo-RMS to test low vibrations
- High frequency mode to test average acceleration (Hi AVE) and single peak displacement (Hi PEAK)

680 €



VG120

Vibration tester

- Basic compact analyzer for predictive maintenance of machinery
- Also includes temperature probes for contact temperature and liquids
- For checking of unbalance, misalignment, bearings and gears
- External accelerometer with cable and magnetic base
- Low frequency mode Lo-RMS to test low vibrations
- High frequency mode to test average acceleration (Hi AVE) and single peak displacement (Hi PEAK)

980 €

INTRODUCTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

NEMESIS 9500™ a universal hardness tester most suitable for heavy duty testing. Based on the technology of the NEMESIS 9000™. Built for tough environments and extra large workspace accommodation. Suitable for parts up to 500kgf. The floor type frame reaches a height of 2 meters and offers a **workspace of not less than 650mm** height and a throat depth of 300mm. Rockwell, Vickers and Brinell, but also pure depth test methods such as H, HVT and HBT are part of the standard test procedures of the NEMESIS 9500™. 3 models cover a range of test loads either up to 250, 750kgf or 3000kgf.

The NEMESIS 9500™ has a motorized elevator spindle and a descending test head, allowing each test piece to be tested on an ergonomic working height.

The test head is equipped with a 6 positions modular turret (indentors and objectives) and an optical zoom video system with 5mp HD camera.

High performance PC driven automatic and manual indent measurement with automatic filing and storage functions. Refined algorithms for automatic measurement on materials normally less suitable for automatic measurement.

HARDNESS SCALES:

ROCKWELL
VICKERS
BRINELL
HVT
HBT

Standard delivery

- Diamond Rockwell indenter
- Vickers indenter
- Brinell indenter 2.5mm
- Hardness test block HRA
- Hardness test block HRC
- Hardness test block HRB
- Hardness test block HV30
- Hardness test block HB2.5/187.5
- Motorized turret with 6 positions
- Objectives for 0.7x - 1000x magnification
- Built-in 3 axis support driver
- Large testing table 650mm x 450mm
- Installation & user manual
- Calibration certificate
- Toolset



NEMESIS 9500 SERIES
UNIVERSAL HARDNESS TESTER

NEMESIS 9501
32200 €

NEMESIS 9502
33200 €

NEMESIS 9503
34900 €



INTRODUCTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

OPTICAL HARDNESS

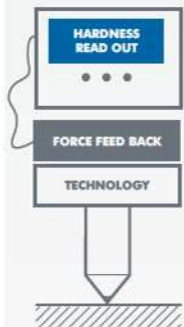
TESTING METHODS:

- Vickers (HV), EN ISO 6507, ASTM E 92
- Knoop (HK) ISO 4545, 4546
- Brinell (HB) EN ISO 6506, ASTM E 10

DEPTH MEASURING HARDNESS

TESTING METHODS:

- Rockwell (HR)
EN ISO 6508, ASTM E 18
- Vickers depth measurement HVT
VDI/VDE 2616-1
- Brinell depth measurement HBT VDI/VDE
2616-1
- Ball indentation hardness (H)
(ISO 2039-1) (plastics)



6 Positions modular motorized turret, 5 Mp built-in camera, Optional overview camera

LED illumination, LED ringlight

Microscope quality optical system with long working distance objectives

Linear force actuator, fixed workpiece position

Flexible modular design

Force configuration for maximum 250kgf, 750kgf or 3000kgf

High performance PC, Windows 7 driven operating system "IMPRESSIONS" with refined algorithms for automatic image measuring

15" high resolution industrial touch-screen

ABS shockproof machinecovers, available in multi-colors

Optional:
Keyboard and mouse

Each NEMESIS 9000™ is supplied with a standard set of test anvils and worktables. Such set includes 1 V-groove anvil, 1 flat anvil 80mm, 1 large round testing table ø200mm. Additionally, you can opt for a large range of specific anvils such as a spot anvil, set of V-groove anvils tungsten alloy or diamond surface anvils.

Current models available:

NEMESIS 9001 / 1kgf - 250kgf

NEMESIS 9002 / 3kgf - 750kgf

NEMESIS 9003 / 10kgf - 3000kgf

Regardless of your purchase, at reasonable expenses each model can be converted to different load scales as per your request.

9001/250Kgf
22400 €

9002/750Kgf
24500 €

9003/3000Kgf
26700 €

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Rockwell, Superficial Rockwell, Brinell, Vickers, HVT & HBT

- Load cell, force feedback, closed loop system
- Test loads 1Kgf-250Kgf
- Complies to all applicable EN/ISO and ASTM standards
- Optical system high precision optical path, mat screen diameter 135mm
- Shape correction for curved surfaces
- High accuracy depth measuring system (Rockwell, HBT, HVT)
- Large LCD display shows measured values, online statistics, memory overview, tester settings
- User-friendly, low training requirements
- Possibility to store 20 batch files with 50 measuring results
- Direct printer and/or PC connections via RS-232 and USB-2
- Large workpiece accommodation (H=300mm)



NEXUS 7000
1KGF TO 250KGF

Standard delivery

- Diamond Rockwell indenter
- Vickers indenter
- Brinell indenter 2.5mm
- Hardness test block HRA
- Hardness test block HRC
- Hardness test block HRB
- Hardness test block HV30
- Hardness test block HB2.5/187.5
- Objective for 70x magnification
- Objective for 140x magnification
- Clamping protection nose
- Testing table ø80mm
- Installation & user manual
- Calibration certificate
- Toolset

15000 €



PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

Features

Rockwell, Vickers, Knoop, Brinell, HVT, HBT Load cell, closed loop, force feedback universal hardness tester. Advanced digital measurement system, digital display readings, memory and conversion to other hardness scales. Ideal for a very large range of smaller parts and components. Extremely suitable for educational purposes, research institutes and light industry.

Offering a wide range of test loads:

2, 2.5, 3, 5, 10, 15, 15.625, 20, 30, 31.25, 45, 50, 60, 62.5, 100, 125, 150, 187.5Kgf

- Load cell, force feedback, closed loop system
- Complies to all applicable EN/ISO and ASTM standards
- Shape correction values for curved surfaces
- High-quality depth measuring system (Rockwell, HBT, HVT)
- Very user-friendly, low training requirements
- Possibility to store 49 batch files with statistic results
- Direct printer and/or PC connections via USB-2

Suitable to determine the hardness of a wide variety of metal and plastic parts.

Standard delivery

- Objectives for 37.5x, 75x and 150x magnification
- Rockwell diamond cone 120°
- Rockwell ball indenter 1/16"
- Brinell balls indentors 1mm, 2.5mm, 5mm, 10mm
- Vickers diamond cone 136°
- Sliding testing table
- V-anvil $\varnothing 40\text{mm}$ and $\varnothing 60\text{mm}$
- Flat anvil $\varnothing 60\text{mm}$
- Testing table $\varnothing 160\text{mm}$
- Hardness test block $\pm 450\text{HV}$
- Hardness test block $\pm 200\text{HB}$
- Hardness test block $\pm 60\text{HRC}$
- Hardness test block $\pm 30\text{HRC}$
- Hardness test block $\pm 85\text{HRB}$
- Fuse 7A (2 pcs)
- Spare light bulb 6V/15W (2 pcs)
- External lamp for Brinell measurements
- Power cable
- INNOVATEST® certificate
- Installation and user manual



NEXUS 704D
ELECTRONIC DIGITAL MICROSCOPE



10300 €

Optional LED Ringlight

695 €

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Features

Simple straight forward Brinell hardness tester with test force ranging from 61.5kgf to 3000kgf.

Closed loop, load cell, force feedback system for reliable load application, without overshoot.

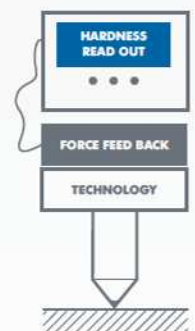
- Sturdy, regular, 30kN (3000kg) test allowance
- Rugged construction to with-stand harsh environments
- Very affordable price
- External microscope with analogue scale for indentation measurement

Standard delivery

- Measuring microscope 20x
- Ball indentors $\varnothing 2.5\text{mm}$, $\varnothing 5\text{mm}$ and $\varnothing 10\text{mm}$
- V-anvil $\varnothing 80\text{mm}$
- Large flat anvil $\varnothing 200\text{mm}$
- Small flat anvil $\varnothing 60\text{mm}$
- Fuse 2A (3 pcs)
- Hardness test block
150-250 HBW 10/3000
- Hardness test block
75-125 HBW 10/1000
- Hardness test block
150-250 HBW 2.5/187.5
- INNOVATEST® certificate
- Installation and user manual



3000LDB
BRINELL 61.5KGF TO 3000KGF



5995 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

Brinell & Vickers

- Heavy duty, fast production tester
- Load cell, closed loop system
- Test loads 30Kgf - 3000Kgf
- LCD display showing Brinell and Vickers values, statistics and tester settings
- Simultaneous conversion to Rockwell, Vickers, Brinell and Leeb
- External ELECTRONIC digital microscope with analogue scale for automatic indentation measurement
- Featuring automatic workpiece detection, force application, unloading, repositioning. Fully automatic without operator interference
- **XL version, 450mm workpiece height, 250mm throat depth (from spindle centre)**

M VERSION:

- **FAST MOTORIZED SPINDLE**
- **ONE TOUCH FULL AUTOMATIC PROCEDURE (Auto trip, auto load, auto main load, auto unload)**
- **DIGITAL MICROSCOPE FOR EASY AND FAST MEASUREMENT**

Standard delivery

- Analogue microscope with 10x, 25x and 100x magnification (3001)
- Digital microscope with 10x, 25x and 100x magnification (3002) for automatic measurement
- Ball indentors $\varnothing 1\text{mm}$, $\varnothing 2.5\text{mm}$, $\varnothing 5\text{mm}$ & $\varnothing 10\text{mm}$
- V-anvil $\varnothing 80\text{mm}$
- Large flat anvil $\varnothing 200\text{mm}$
- Small flat anvil $\varnothing 60\text{mm}$
- Testing table $\varnothing 80\text{mm}$
- Fuse 2A (3 pcs)
- Hardness test block 150-250 HBW 10/3000
- Hardness test block 75-125 HBW 10/1000
- Hardness test block 150-250 HBW 2.5/187.5
- RS-232 data output
- 4 adjustable feet
- INNOVATEST® certificate
- Installation and user manual



NEXUS 3002 XL / M
WITH ELECTRONIC DIGITAL MICROSCOPE



NEXUS 3002 XL
7200 €

NEXUS 3002 XLM
9400 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

MANUAL



600A



Rockwell

- Manually operated
- Analogue
- Scales A, B, C and F

1680 €

MANUAL



600BD



Rockwell

- Manually operated
- Digital, LCD display
- Scales A, B, C, D, E, F, G, H, K, L, M, P, R, S and V

2395 €

AUTOMATIC MOTORIZED



600MBDL



Rockwell

- Motorized
- Automatic
- Digital, OLED display
- Scales A, B, C, D, E, F, G, H, K, L, M, P, R, S and V
- Full color display
- Conversion to Vickers, Brinell and other Rockwell scales
- On-line statistics
- USB/RS-232 output

2740 €

PROMOTION OFFER

NET PRICES FOR DISTRIBUTORS ONLY!

Features

- Rockwell & Superficial Rockwell hardness tester
- Simultaneous conversion to HV, HB and other HR scales
- Rugged fine casted frame with large workpiece accommodation
- ASTM, DIN-EN-ISO, JIS compliant
- LCD touch screen, user interface with user-friendly menu operation in multiple languages
- High speed: preload, loading and unloading procedure for ultra high efficiency
- Storage of 50 test programs and tester settings, allowing you to set up your tester in just seconds
- Continuous automatic "online" statistics, incl. average of readings, standard deviation, etc.
- Storage of 20,000 single hardness values
- Go/No Go mode, convex and concave measuring mode
- Prints statistics to built-in printer or external printer
- Data output directly to MS Office applications such as Word and Excel
- Connects with PC or SPC network via built-in bi-directional USB2 connector
- Direct data input into MS Excel and Word

- **FAST MOTORIZED SPINDLE**
- **ONE TOUCH FULL AUTOMATIC PROCEDURE (Auto trip, auto pre-load, auto main load, auto measurement, auto unload, display value)**
- **655: Rockwell scales**
- **675: Rockwell and Superficial Rockwell scales**



657/677

MOTORIZED SPINDLE, FULL AUTO

Standard delivery

- Built-in printer
- Data-output USB2 and RS-232C
- Diamond Rockwell indenter
- Rockwell ball indenter 1/16"
- Rockwell testing balls
- Flat anvil ø60mm
- Testing table large ø150mm
- V-anvil ø40mm
- Hardness test blocks:
±60 HRC, ±40 HRC, ±85 HRB
- Power cable
- Spare fuse
- Adjustable feet (4 Pcs)
- Spindle protection cover
- Machine cover
- Solid accessories case
- INNOVATEST® certificate
- User and installation manual

657
6895 €

677
8240 €

PROMOTION OFFER

NET PRICES FOR DISTRIBUTORS ONLY!

Features 412A series

- 10gf to 1kgf
- Motorized turret
- Analogue microscope
- Motorized load control
- X-Y stage with 0.01mm resolution
- Built-in high speed printer
- Second optical or Video path

Features 423D series

- 10gf to 2kgf
- Motorized turret
- High resolution electronic microscope, digital value transfer
- Conversion to other hardness scales
- Motorized load control
- Statistics and conversions
- X-Y stage with 0.01mm resolution
- Built-in high speed printer
- Second optical or Video path



423D
MICRO-VICKERS & KNOOP

Standard delivery

- Manual X-Y-Z stage
- Objectives according to model (10x and 40x or 10x, 20x and 40x)
- Analogue or Electronic microscope 15x
- Vickers test block
- Built-in silent thermal printer
- RS-232 data output
- Set of workpiece fixtures, vice, chuck, clamp
- Level gauge
- 4 adjustable feet
- Spare halogen lamp
- Installation & user manual
- Quality certificate
- Color: Laboratory White

412A
Analogue 2 objectives

5950 €

423D
Digital 3 objectives

6695 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

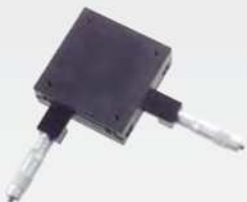


MICRO VICKERS



MICRO VICKERS 412A INCLUDING INV SYSTEM (EXCLUDING PC)

Analogue



INV1

INNOVAVIEW™ INV1 (Basic system)

- Basic vision indent measuring system with advanced capabilities
- Manual measurement of the indent on the LCD screen
- Case Hardness Depth, store, file, handle images and data on the harddisk
- Auto indent measuring optional

8800 €

Digital



INV2

INNOVAVIEW™ INV2 (Basic system, digital x-y stage)

- The same as INV1 plus digital micrometer(s) on the X-Y stages to measure stage displacement
- Control accurate indent coordinate
- Auto indent measuring optional

9650 €

Motorized, small



INV3 & INV4

INNOVAVIEW™ INV3 (Semi Automatic, motorized X-Y stage)

- INV1 plus motorized X-Y stage (small or large)
- Automatic pattern and traverse system
- Workpiece position control over PC operation
- High resolution CCD system shows real time measurement
- Auto indent measuring optional

14800 €

Motorized, large



INV3 & INV4

INNOVAVIEW™ INV4 (Fully automatic, auto focus, auto measure)

- Equals to INV 3
- Full options including automatic indent measuring
- Automatic focusing Z-axis (Built-in system)
- Allows a series of automatic test with storage of test results and test images without operator interference
- Saves time and money

22900 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

Features

High-end Vickers/Knoop/Brinell tester with low and high force ranging from HV0.02 to HV50.
Closed Loop, Load Cell, Force Feedback technology for a reliable fast measurement procedure.
Modular design, fits to almost any budget.

The NEXUS 4000 series of Micro/Macro Vickers, Knoop & Brinell hardness testers combines a practical design with universal specifications. State-of-the-art closed loop, load cell technology and a - Patent Pending - force feedback system, assure fast test results at the highest possible accuracy.

Unmatched consistency, repeatability and reliability now become affordable.

The closed loop system applies force, calculates, filters and controls digital data in a 32-bits embedded CPU system.

The tester has a 4 position turret which can be customized by using different indentors, objectives, stages or Vision systems, meeting your particular request and budget.

The NEXUS 4000 series meets all applicable EN, ISO and ASTM standards.



NEXUS 4303
LOAD CELL, CLOSED LOOP SYSTEM



Standard delivery

- Manual X-Y-Z stage
- Flat anvil 60mm
- Objectives 5x, 10x, 20x or 10x, 20x, 40x
- Electronic digital eyepiece 15x
- Vickers test block
- Set of workpiece fixtures, vice, chuck, clamp
- Built-in thermal printer
- RS-232 data output
- 4 adjustable feet
- Spare halogen lamp
- Fuse
- Installation & user manual
- Quality certificate
- Color: Laboratory White

NEXUS 4303
VICKERS &
KNOOP

9900 €

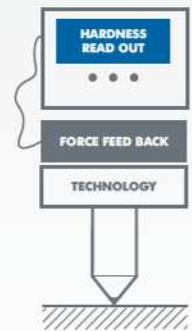
NEXUS 4304
VICKERS, KNOOP
& BRINELL

10800 €

PROMOTION OFFER NET PRICES FOR DISTRIBUTORS ONLY!

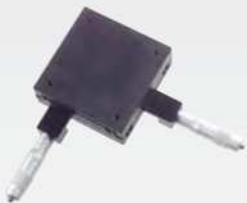


VICKERS AND MICRO-VICKERS RANGE 20GRAM - 30KGF



VICKERS 4303 INCLUDING INV SYSTEM (EXCLUDING PC)

Analogue



INV1

INNOVAVIEW™ INV1 (Basic system)

- Basic vision indent measuring system with advanced capabilities
- Manual measurement of the indent on the LCD screen
- Case Hardness Depth, store, file, handle images and data on the harddisk
- Auto indent measuring optional

12495 €

Digital



INV2

INNOVAVIEW™ INV2 (Basic system, digital X-Y stage)

- The same as INV1 plus digital micrometer(s) on the X-Y stages to measure stage displacement
- Control accurate indent coordinate
- Auto indent measuring optional

13495 €

Motorized, large



INV3/31.25KGF

INNOVAVIEW™ INV3 (Semi Automatic, motorized X-Y stage)

- INV1 plus motorized X-Y stage (small or large)
- Automatic pattern and traverse system
- Workpiece position control over PC operation
- High resolution CCD system shows real time measurement
- Auto indent measuring optional

18900 €

Motorized, large



INV4/31.25KGF

INNOVAVIEW™ INV4 (Fully automatic, auto focus, auto measure)

- Equals to INV 3
- Full options including automatic indent measuring
- Automatic focusing Z-axis (Built-in system)
- Allows a series of automatic test with storage of test results and test images without operator interference
- Saves time and money

23950 €