

absolute
méréstechnika

PROMOTION OFFERS

2010/2

NEW

HV400

BARCOL

NEXUS 3002

NEXUS 3002XL

NEXUS 704 INV 1

VIEWSCOPE

Valid for new orders from
01/05/2010 to 31/08/2010



PROMOTION OFFER



TH-1100

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.

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Kérje ajánlatunkat!

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-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

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Kérje ajánlatunkat!



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

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TH-174

Portable hardness tester

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

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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



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.)

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WEBSTER WH100

Portable hardness tester

- The WEBSTER hardness method is ideal for sheet metal, sheet aluminium 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

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BARCOL

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

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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

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THS-200

Shore A

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

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Kérje ajánlatunkat!



DSA5001

Shore A

- 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

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Kérje ajánlatunkat!



DSD5001

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

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Kérje ajánlatunkat!

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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
- Piäzo-electric pick-up stylus for external surfaces

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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

- Piäzo-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

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TR-200

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
- Optional pick-up for grooves/bores and holes

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TR-210

Surface roughness tester

- Measures Ra, Rz, Ry, Rq roughness parameters, digital filters
- Optional pick-up for grooves/bores and holes
- Data output RS-232 to printer or PC
- Large LCD display
- Auto-off after 5 minutes with auto-store (last reading)
- Memory for 10 readings
- Excellent battery power with Li-ion technology
- DYNAMIC, inductive pick up stylus
- Pick-up stylus position indicator

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TR-220

Surface roughness tester

- Measures Ra, Rz, Ry, Rq, Rt, Rp, Rmax, Rv, R3z, RS, RSm, RSk, Rmr, 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

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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 0.1mm
- Memory for 10 readings
- 5 pre-set sound velocities for repeating applications

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Kérje ajánlatunkat!

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 0.1mm
- Mm/inch selectable

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Kérje ajánlatunkat!

TT-300A

Ultrasonic wall thickness gauge

- Easy to operate ultrasonic wall thickness gauge for metals, glass, plastics etc. **Range 0.75mm to 225mm**
- Display resolution menu selectable
- Automatic zero setting
- Two-point calibration possible
- LCD display with backlight
- Min. mode for minimum thickness measurement
- Mm/inch selectable
- Large internal memory for 500 readings
- Data output RS-232
- Including protection case, couplant and carrying case

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TT-500

Ultrasonic thickness gauge

- A-Scan method for waveform verification
- Wide thickness range (0.75-508mm)
- Echo-echo mode to determine the distance excluding the coating between two echoes
- Min. and Max. mode
- 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
- Large memory for up to 10000 thickness values
- Manual gain adjustment/auto gain selectable

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600A



Rockwell

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

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600MBD



Rockwell

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

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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

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675

Rockwell & Superficial Rockwell

- Digital, touch screen
- 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
- Motorized
- Automatic
- Conversion to all other hardness scales
- Large workpiece accommodation
- On-line statistics
- USB/RS-232 output



676

Rockwell & Superficial Rockwell

- Digital, touch screen
- 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
- Motorized
- Automatic
- Automatic load selector
- Conversion to all other hardness scales
- Large workpiece accommodation
- On-line statistics
- USB/RS-232 output



677

Rockwell & Superficial Rockwell

- Digital, touch screen
- 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
- Motorized
- Fully automatic, auto trip, auto workpiece detection, auto testing
- Conversion to all other hardness scales
- Large workpiece accommodation
- On-line statistics
- USB/RS-232 output
- Automatic load selector
- Motorized spindle

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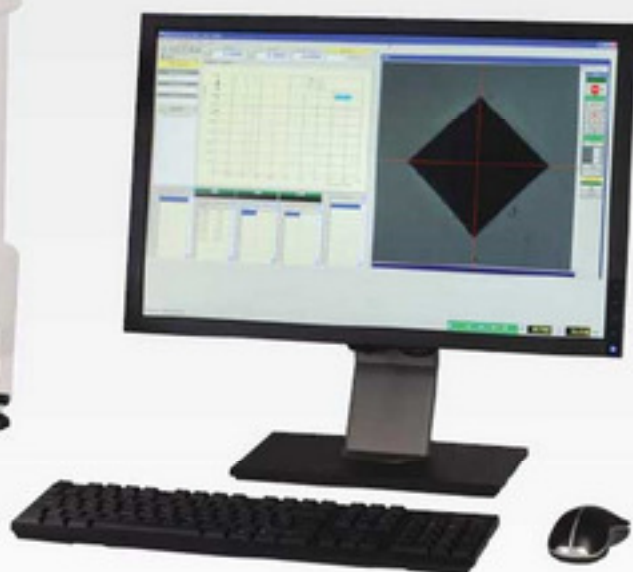
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MICRO VICKERS



423A INV

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

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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

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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

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Kérje ajánlatunkat!

Motorized, large



INV3 & INV4

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

- Equals to INV 3
- Full options including automatic indent measuring
- Automatic focussing 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

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3000LDB BASIC

WITH ANALOGUE MICROSCOPE

Brinell

- Load cell, closed loop system
- Test loads 61.5kgf - 3000kgf
- External microscope with analogue scale for indentation measurement
- Brinell video microscope system optional

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NEXUS 3002

WITH ELECTRONIC DIGITAL MICROSCOPE

Brinell & Vickers

- 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 for automatic indentation measurement

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Kérje ajánlatunkat!



NEXUS 3002 XL

WITH ELECTRONIC DIGITAL MICROSCOPE

Brinell & Vickers

- 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

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NEXUS 704D

ELECTRONIC DIGITAL MICROSCOPE

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

- Load cell, closed loop system
- Test loads 2kgf - 187kgf
- Built-in electronic digital microscope for automatic indentation measurement
- Digital full color OLED display shows all hardness values, statistics and tester settings. Advanced functions
- Conversion to Rockwell, Superficial Rockwell, Vickers, Brinell scales

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NEXUS 704 INV1

UNIVERSAL SYSTEM WITH VIDEO MEASURING SYSTEM

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

- Load cell, closed loop system
- Test loads 2kgf - 187kgf
- 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
- Digital full color OLED display shows all hardness values, statistics and tester settings. Advanced functions
- Conversion to Rockwell, Superficial Rockwell, Vickers, Brinell scales
- Automatic indent measurement optional

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NEXUS 7000
1KGF TO 250KGF

**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)

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NEXUS 7000 XL
1KGF TO 250KGF

**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, screen diameter 135mm
- Shape correction values 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
- Extra large workpiece accommodation (H=450mm)

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INH30A
HORIZONTAL PROFILE PROJECTOR

Horizontal profile projector

- Rigid easy to operate profile projector 300mm (16") screen with 90 degree crosslines and chart clips
- Excellent optical path creating crisp images
- Profile illumination with halogen lamp and green filter
- Surface illumination (fibre optic)
- Helix adjustment of light source $\pm 7^\circ$ for accurate thread form projection
- Precision workstage with slots for holding accessories
- Large 400mm workstage measuring range of 200mm x 100mm
- Digital angle measurement to 1 minute of arc
- Digital multifunctional read-out with advanced processing options

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DVP500B
DIGITAL VIDEO PROJECTOR

Digital video projector

- Measuring range 250 x 150 x 145mm
- Objective working range 95mm
- Repeatability 5 μ m
- Instrument is operated by mouse and keyboard, or by Touch screen
- Z-axis lens lift-system ensure the workpiece remains in a fixed position
- Multifunction surface measurement over advanced software
- Excellent repeatability and accuracy
- TXT, Excel report output, Dxf input or output
- 4-division LED illumination is optional available
- Z-axis video height measurement is optional available
- Z-axis touch probe measurement is optional available
- Standard Measuring software INNOVAVISION 2.0
- Printer, RS-232 and USB connectors available
- 19" touch screen

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| absolute | méréstechnika

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Az akció egyéb feltételeiről, árakról,
szállítási határidőkről, kérjük érdeklődjön!

Az akciós katalógusban szereplő
termékek műszaki jellemzőinek előzetes
jezés nélkül való változtatási jogát
fenntartjuk!