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Buehler Release: New Knoop & Vickers Micro- Hardness Universal Testing Machines

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/PRNewswire/ -- Buehler, an ITW Company, is introducing the Wilson® VH1102 and VH1202 micro hardness testers. These Wilson hardness testers meet the highest accuracy standards and can be used both in quality control and research and development. The instruments feature deadweight loads from 10 g up to 2 kg and nine different, automatically selectable loading stages. The new Wilson VH1102 and VH1202 universal hardness testers offer a flexible, cost-efficient and

reliable solution for Knoop and Vickers micro-hardness testing in accordance with ISO 6507, 9385 and 4546 or ASTM E384 and E92.

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Ergonomic Touchscreen and Automated Convenience

Both models feature an ergonomic, adjustable 7" color touchscreen for rapid test method selection and data collection. The system is highly intuitive to use and can be operated by less extensively trained staff after a brief period of training. The wide load range with test scales from HV/HK0.01 to HV/HK2 is the same for both models. The usual knob for manual selection of test weights has

been replaced by a durable, software-controlled electric motor to automatically change test weights, thereby providing a level of operator convenience on the new Wilson micro hardness testers which is normally found only on higher-end instruments.

Provide High Ease of Operation with Choice of 4 or 6 Position Turret

The two testers differ with regard to the electrically driven, high-speed, low-noise turret. The VH1102 model is equipped with a turret providing four positions, including an indenter for Knoop or Vickers and two standard objectives for 10x and 50x magnification at normal working distance. The VH1202 model is equipped with a six-position turret, including two indenters for both Knoop and Vickers, and an additional objective with 5x magnification at

long working distance. For both models, all you need to do in order to set the turret to the magnification selected on the touch screen is push the Start button.

Accelerate Workflow in Test Labs and Industry

The Wilson hardness testers can be configured to meet a wide range of requirements, from a stand-alone version for use in laboratories with a relatively low sample volume, up to a fully equipped system catering for high sample volumes in an industrial environment.

- The standard model includes a digital eyepiece for manual indent measurement, including camera connection capability and a USB port enabling data to be exported for further processing with a standard spreadsheet program.
- The semi-automatic version

supports presetting of simple traverses for determining the hardening depth on surface-hardened components (CHD) and eliminates the 'human factor' by automatically measuring the indents.

- The fully featured version includes, in addition to a high-resolution camera, a 3-axial sample stage and autofocus, along with Buehler's recently upgraded DiaMet hardness testing software.

Both systems are capable of automatically handling and documenting hundreds of indents without any user intervention with high precision and repeatability within a minimum of time.

Buehler's product portfolio comprises a full range of other Rockwell, Vickers/Knoop, Brinell and universal hardness testers with numerous options for automation.

The Automated Knoop/Vickers Hardness Testers VH3300 and the VH3100 along with the UH250 include the new DiaMet hardness testing software.

The company also markets a variety of sectioning and precision sectioning machines optimized for specific applications; mounting systems including the associated epoxy and acrylic resins; grinding and polishing machines, and consumables for use in materials preparation and image analyses. Buehler products cross a wide variety of industries, including Primary Metals, Automotive, Aerospace and Defense, Electronics, Medical, Energy and more. For more information on the Wilson® VH1102 and VH1202 micro hardness testers: email marketing@buehler.com, contact at 847-295-6500, or visit www.buehler.com.

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