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By **Gear Solutions staff** - December 15, 2019



The All-in-One is ideal for production control hardness testing and is easily operated. (Courtesy: Buehler)

Buehler, ITW Test & Measurement GmbH showcased the All-in-One VH3100 hardness tester at the HärtereiKongress, the largest expo for the heat treatment industry in Europe. The fully automatic preconfigured VH3100 Vickers/Knoop hardness test system is capable of meeting virtually any requirement in the area of automated micro to

macro hardness testing. Buehler is also excited to announce that the All-in-One Wilson VH3100 is available for shipping in industry leading lead times and can be delivered quickly in two to four weeks.

Matthias Pascher, hardness product manager at Buehler, said, "Buehler developed the Wilson VH3100 All-in-One hardness tester after seeing that customers wanted a pre-packaged Vickers hardness tester with software. The All-in-One is ideal for production control hardness testing and is easily operated; it includes the advanced DiaMet Enterprise hardness testing software. Many customers at the Härtereikongress were excited to be able to order the complete unit at once."

The DiaMet Enterprise software offers mapping, edge detection, scanning, stitching of overview image, CHD calculations, statistics, weld testing, geometric measurement functions, exporting all common file types and barcode scanner interface. It also includes a high-performance personal computer with a 24-inch full HD touch monitor.

This VH3100 Vickers hardness test system features a three-position virtual turret with one Vickers indenter and two measurement objectives, an automated X/Y sample stage (110 mm x 140 mm travel range), a bright field overview camera for sample navigation and scanning and a powerful image analysis. A purpose-designed collision protection system helps to avoid accidental damage to the indenters and objectives due to operator errors. The VH3100 hardness testing system provides the ultimate high capacity testing platform capable of performing 150 make and measure indents an hour (with 10 seconds dwell time) using the fully automated test program.

The VH3100 with its extensive variety of scales and magnifications excels through maximum flexibility for automated hardness testing to ASTM and ISO no matter whether a quality control production environment or in a test laboratory. It is ideal for more advanced heat treatment processes like the aerospace, automotive, energy, construction and transportation industries that require hardness testing systems to be durable while maintaining precise control during critical test data generation.

The Wilson VH3100 All-in-One is preconfigured with macro and micro ranges, closed loop load cell force control and precision optical measurement system. Other features include:

- Load range: 0.05-10kgf.
- ISO and ASTM certified Vickers indenter.
- 10x and 50x long working distance objective for measurements and navigation.
- Motorized stage 180x180mm stage (travel 110x140mm).
- 5 MP bright field overview camera for sample navigation, scanning, etc.

Optional vises, clamps, sample holders, ISO certified hardness test blocks, and other accessories are not included in the All-in-One and will need to be ordered separately.

MORE INFO www.buehler.com



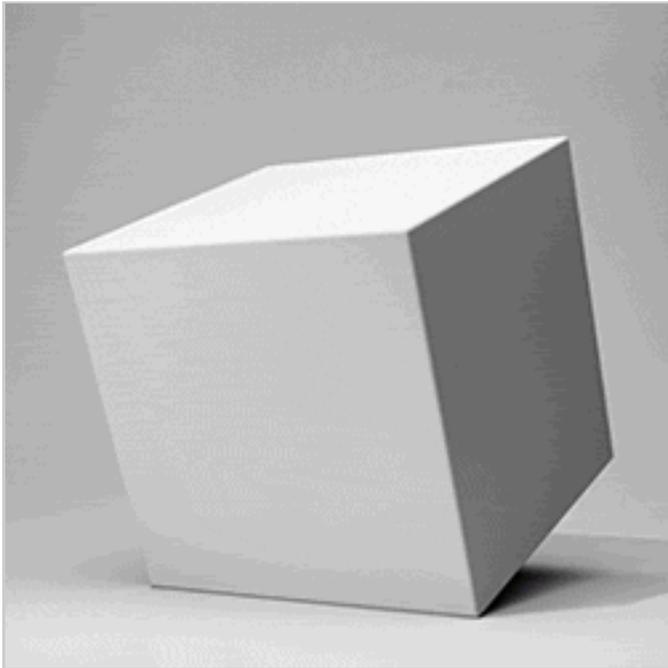
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