MICROMET® 3 & 4 Testers offer quality design features including:

- Automatic load application and release
- Dial-weight loading system for 10-1000 gram loads; others optional
- Variable dwell time from 5 to 50 seconds
- Zero set point memory
- Multiple format data output
- Filter slot and interchangeable aperture diaphragm
- Quick selection of turret mounted objectives and indenter
- Vibration resistant stage
- Integral camera port for Video and Photographic Systems
- Sturdy, precision cast construction

BUEHLER® MICROMET® Digital Microhardness Testers...designed for dependable and accurate hardness testing on all types of materials.

The BUEHLER® MICROMET® 3 & 4 Digital Microhardness Testers provide the versatility demanded by today's materials technology while ensuring precision and reproducibility.

MICROMET® Digital Testers feature a turret mounted indenter/objective system. Precisely located dead weights and parallel leaf springs prevent side loading and guarantee accurate load application. These features combine with a 40x flat field measuring objective and 10x scanning objective to assure field centration, repeatability and accuracy. A precision vibration resistant X-Y stage (English or Metric travel) ensures positioning ease.

An easy to use digital dual line 10x filar eyepiece completes the optical system to produce 100x and 400x magnifications. Diagonal lengths of indentations are digitally displayed on the control panel in microns (to 0.1 micron) along with corresponding Vickers or Knoop number.
The MICROMET® 4 Tester offers the same features as the MICROMET® 3 Tester plus hardness scale conversions, over, under or good test indication, and data editing with 50 test memory.

MICROMET® 3 Automation System features automatic stage, stage controller, plotter, printer and stand.

Specifications

No. 1600-4300 MICROMET® 3 Microhardness Tester, Digital model including precision cast housing, inclined monocular observation tube with 10x widefield micrometer dual line filar eyepiece and scale measuring directly in microns, 0.1 micron measuring accuracy. Also includes turret for parallel leaf spring supported indenter, 40x plan measuring and 10x scanning objectives for system magnifications of 400x and 100x, vibration proof precision micrometer stage with 1" X-Y movement, 0.001" minimum graduation, universal clamping vise for test piece – maximum opening 50 mm, variable dwell time of 5 to 50 seconds, precision dial-weight loading system (10-1000 grams) and built-in camera port. BCD, RS232C, Centronics and serial outputs. Accepts maximum height of 85 mm, maximum depth of 100 mm. Complete with accessory case, spare bulbs, tools, test block and certificate, spirit level, dust cover and operating instructions. For 115V, 60 Hz, 1 phase operation. Indentor supplied separately.

No. 1600-4400 MICROMET® 4 Microhardness Tester, Digital model same as No. 1600-4300 MICROMET® 3 Tester above, but also includes LCD display of scale conversions, data memory and editing, over, under or good indication and statistical data processing.

Dimensions: 8" W × 16" D × 17½" H  
(20.3 cm × 40.6 cm × 44.4 cm)

Shipping Weight: 90 lbs. (41 kg)

No. 1600-4350 MICROMET® 3 Automation System, Includes No. 1600-4300 MICROMET® 3 Microhardness Tester, Automatic Stage Control Computer, Plotter, Printer and Printer Stand. Computer controlled automatic positioning stage has 1" X-Y movement with minimum graduation of 0.005 inches. Computer has illuminated LCD display for program commands and dual 3.5" floppy discs to store/run programs and data. Includes all connecting cables, operating instructions, standard program disc with scale conversions and plotting programs.

Accessories

No. 1600-2200 Vickers Diamond Indentor  
No. 1600-2201 Knoop Diamond Indentor  
No. 1600-2396 Self-leveling Vise

For a complete listing of accessories refer to BUEHLER ANALYST® Section 13, Hardness Testing Accessories.