

## Hardness Testing Machines

MeasurLink<sup>®</sup> ENABLED  
Data Management Software by Mitutoyo



### HM-200 SERIES 810 — Micro Vickers Hardness Testing Machines

- The latest electromagnetic force motor used in the loading mechanism enables the test force to be freely selected.
- In addition to Vickers hardness testing, Knoop (HK)\* and Fracture toughness (Kc) tests can also be performed.

\* For Knoop hardness testing, Knoop indenter (optional) is required.



System A  
(HM-210A / 220A)

#### SPECIFICATIONS

Model	HM-210			HM-220		
	Display unit	metric	inch/mm	metric	metric	inch/mm
Operation	Manual	Manual	System	Manual	Manual	System
Applicable standards	JIS B7725, ISO 6507-2					
Test force	98.07 to 9807 (10 to 1000)			0.4903 to 19610 (0.05 to 2000)		
Arbitrary test force	One setting can be saved, default is HV0.025					
External dimensions (WxDxH) (excluding protrusions and stage); Main unit mass	System A: Approx. 315x671x595 mm, 38.5 kg System B/C/D: Approx. 315x586x741 mm, 37.4 kg					
Power supply/ Power consumption	AC100 V to 240 V 50/60 Hz System A: 31 W System B/C/D: 30 W			AC100 V to 240 V 50/60 Hz System A: 44 W System B/C/D: 43 W		

#### System A (HM-210A / 220A)

All-in-one model with simple color touch-panel operation

#### System B (HM-210B / 220B)

A system equipped with automatic reading function with AVPAK software

#### System C (HM-210C / 220C)

In addition to the functions of System B, System C is equipped with an electric stage

#### System D (HM-210D / 220D)

In addition to the functions of System B and System C, System D is equipped with the auto focus function

CAUTION: The AVPAK-20 software package is not for use within, or export to, the United States of America  
The AVPAK-10 software package is for the United States of America

### HM-100 SERIES 810 — Micro Vickers Hardness Testing Machines

- The HM-100 Series is an affordable line of microhardness testers able to work with very small test loads (from 98.07 mN, 10 gf, and upwards), which is perfect for evaluating the mechanical characteristics and controlling the quality of electric/electronic components.



HM-103

#### SPECIFICATIONS

Model	HM-101*	HM-102	HM-103
	Applicable standards	JIS B7725, ISO 6507-2	
Test force	98.07 to 9807 (10 to 1000)		
External dimensions (WxDxH)	Main unit: 380x600x590 mm, 42 kg		
	Control panel: 165x260x105 mm, 1.5 kg		TV monitor: 202x29.2x175.8 mm, 1.1 kg
Power supply/ Power consumption	AC 100 V±10% (AC 120 V, AC 220 V, AC 240 V according to the factory shipped setting)		
	60 VA or less		Approx. 90 VA or less

\* Only the HM-102 and HM-103 models can be connected to the MeasurLink<sup>®</sup> measurement data network.

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Refer to the Hardness Testing Machines Brochure (E17001) for more details.