

**The NEW
HM-100 Series**
from Mitutoyo

HM-100

Introducing the future in Micro
Vickers Hardness Testing Machines

- Touch Screen LCD Control Unit
- 3 Objective Mounts on New Power Turret
- Calibration Function
- Additional mount for Knoop Indenter
- Statistical Data Processing Function
- OK/± NG Tolerance Judgement
- Cylindrical and Spherical Surface Compensation Function
- Easy Test Condition Setting
- Complete conversion to other Hardness Scales
- Automatic Load Control
- Data Output Ports
- Remote Control of Power Turret



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Micro-Vickers Hardness Testing made easy with High Repeatability and Accuracy

The HM-100 Micro-Vickers Hardness Testing Machine is one of the latest additions to Mitutoyo's range of Hardness Testing Equipment. The newly designed Power Turret provides high positioning accuracy and repeatability and can be switched between indenter/objective positions by a single touch of the LCD Screen. The Power Turret has three objective mounts, and these can be used for indentation measurement using the calibration function. For easy set-up of Knoop Hardness Measurement, the turret also has an additional mount for a Knoop indenter. All of the machine's functions can be operated via the intuitive touch screen LCD Panel, including Turret Control, Indentation Value, Indenter Type, Test Force and Tolerance Judgement, making the HM-100 machines ideal for the shop-floor environment.

Specifications

Model No	HM-122	HM-124
No	810-127E	810-129E
Test Force	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1Kg	0.5gf, 1gf, 2gf, 3gf, 4gf, 5gf, 10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1Kg, 2Kg
Test Force Selection	Dial Selectable	Dial/Touch Screen Selectable
Load Control	Automatic (Loading, Duration, Unloading)	Automatic (Loading, Duration, Unloading)
Load Duration	5-90 Sec. (Specified in 1 sec. Increments)	5-90 Sec. (Specified in 1 Sec Increments)
Objective	10X & 50X	10X, 50X & 100X
Measuring Microscope (Total Magnification)	500X	500X & 1000X
Minimum Reading	0.1µm	0.1µm
Optical path	2 Ways (Microscope/Photograph)	2 Ways (Microscope/Photograph)
Touch Screen LCD Functions	Indentation Size (D1 & D2), Hardness Value & Scale, Number of Measured Points, XY Table Position, Test Conditions (HV/HK Indenter Type, Test Force, Load Duration), OK/±NG Tolerance Judgement, Cylindrical and Spherical Surface Compensation and Offset, Remote Control of Power Turret, Complete Conversion to other Scales, Statistical Processing	Indentation Size (D1 & D2), Hardness Value & Scale, Number of Measured Points, XY Table Position, Test Conditions (HV/HK Indenter Type, Test Force, Load Duration), OK/±NG Tolerance Judgement, Cylindrical and Spherical Surface Compensation and Offset, Remote Control of Power Turret, Complete Conversion to other Scales, Statistical Processing
Statistical Functions	Number of Data, Min & Max Value, Mean Value, Range, Upper and Lower Limits, Number of Conforming Values, Number of Non-Conforming Values, Standard Deviation (n-1 and n)	Number of Data, Min & Max Value, Mean Value, Range, Upper and Lower Limits, Number of Conforming Values, Number of Non-Conforming Values, Standard Deviation (n-1 and n)
Max. Sample Size (HxD)	95x150mm (3.74"x5.90")	95x150mm (3.74"x5.90")
Data Output	RS-232C, Digimatic, Centronics	RS-232C, Digimatic, Centronics
Power Supply	240V AC	240V AC
Machine Dimensions (WxDxH)	410x600x590mm (16.14"x23.62"x23.23")	410x600x590mm (16.14"x23.62"x23.23")
Control Unit Dimensions (WxDxH)	165x260x105mm (6.50"x10.23"x4.13")	165x260x105mm (6.50"x10.23"x4.13")
Mass	42kg (92.4lbs)	42kg (92.4lbs)

Mitutoyo

MEASUREMENT TECHNOLOGY

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