

Micro-Vickers Hardness Testing Machines

HM-210/220

Series 810

- Electromagnetic power generation system enables nonstop setup for testing force.
- High performance optical system enables providing visible indenter image.
- Long life operation by adopted LED lighting and natural color observation image.
- Manual stage for workpiece positioning.
- Software AVPAK
- Low testing force 0.4903 x 10⁻³N (0.05gf) as well as standard force models.

Specifications

Test force generation	Electromagnetic
Load control	Automatic (load, dwell, unload)
Load dwell time	0-999 sec (1 sec increment)
Working distance	50X = 2,5 mm
XY stage	Stage sizes : 100 x 100 mm / 130 x 130 mm Travel range : 25 x 25 mm / 50 x 50 mm 1" x 1" / 2" x 2" Resolution : 0,001 mm
Indenter / Objective turret	Motor driven and manual operation
Objective mounting	4 units mountable
Data output	RS-232C, Digimatic, USB 2.0 interface
Power supply	100/120/220/240V AC, 50/60Hz
Mass	43 kg



HM-210A
HM-220A



HM-210B
HM-220B

Manual unit with Software AVPAK.

Manual touch panel unit with installed measuring Microscope which enables length measurement by visual observation. Setting of various kinds of test conditions and display or test results settable by touch panel operation.

HM-210/220 without stage ¹

Model	HM-210A	HM-210B	HM-220A	HM-220B
No.	810-400D	810-403D	810-405D	810-408D
No. UK only	810-400E	810-403E	810-405E	810-408E
Test force	98.07mN (10gf) ~ 9807mN (1000gf)	98.07mN (10gf) ~ 9807mN (1000gf)	0.4903mN (0.05gf) ~ 19.61N (2000gf)	0.4903 mN (0.05gf) ~ 19.61N (2000gf)

¹ XY stage is a necessary option, select either 1 out of below mentioned stages:

No.: 810-420, travel range : 25 x 25 mm

No.: 810-424, travel range : 1" x 1"

No.: 810-423, travel range : 50 x 50 mm

No.: 810-427, travel range : 2" x 2"