

MH

Series Digital Micro Hardness Testers

MH Series Micro Hardness Testers are ideal for your material laboratory and factory.

Outstanding Features:

- High definition microscopic imaging system ensures a clear display of indentations and metallic structures.
- Precise mechanical structure and surveying mechanism guarantee the reliability and consistency of tests.
- Auto-turret mechanism provides quick and simple operating sequence. Pressing the "start" button once can perform the whole testing process. (MH-5L/6L/50/60)
- The testers enable precise Vickers (HV) and Knoop (HK) measurements to be quick, easy and readily convertible to HRC values.
- The turret mechanism can install max. 4 built-in object lenses with two standard magnifying powers of 10x and 40x. The others two can be 5x/20x/50x/80x/100x. (MH-5L/6L/50/60)
- Indentation image can be rotated 90° automatically. So it is not required to rotate the measuring microscope manually. This make the operation easy and fast. (MH-6L/60)
- The new turret mechanism can simultaneously install two indenters specifically for Vickers (HV) and Knoop (HK) measurements, enabling HV and HK tests to be carried out without replacing the indenter. The indenters utilize the latest independent centralizing mechanism, ensuring the indentations are centrally aligned. (Dual Indenter MH-5LD/6LD/50D/60D)
- The testers are installed with CCD optical adaptors to which PC can be linked for the display and printing of clear images.
- Connecting further Fully/Semi Automatic hardness Testing System is capable.



MH-3L / 5L / 6L



MH-30 / 50 / 60

Specifications:

MODEL		MH-3L MH30	MH-5L MH-50	MH-6L MH-60
TEST LOAD		*gf: 10 25 50 100 200 300 500 1000 mN: 98.07 245.2 490.3 980.7 1961 2942 4903 9807		
LOADING MECHANISM		Automatic loading and releasing method 50µm / s		
DEWELL TIME		5 ~ 99s		
TURRET MECHANISM		Manual	Automatic	
DIAMOND	Standard	Vickers Indenter (HV)		
INDENTER	Optional	Knoop Indenter (HK)		
OBJECT LENS		10x, (40x or 50x)		
MAGNIFICATION OF MICROSCOPE		For measurement : 400x (Objective 40x Eyepiece 10x) For observations : 100x (Objective 10x Eyepiece 10x)		
MEASURING MICROSCOPE		Electronic		Electronic (Auto D1 / D2)
	Max. measuring	200µm (In case of 400x)		
	Min. measuring unit	0.1µm		
MAX. HEIGHT OF SPECIMEN		90mm		
MAX. DEPTH OF SPECIMEN		110mm		
MEASURING HARDNESS SCALE		HV, HK		
X - Y STAGE		Manual		
	Dimensions	110mm x 110mm		
	Max. Movement	25mm x 25mm	Optional: 50mm x 50mm	
	Min. Micro	1 / 100m	Optional: 1/1000mm (Electronic)	
PRECISION VISE		50mm (Max. opening)		
LIGHT SOURCE		12V 50W		
OPTICAL FUNCTION		Adjustable Illuminator		
PRINT OUTPUT		Measured data and statistic data (Max. value, min. value, mean value, range, standard deviation)		
ACCURACY		Conform to: JIG260-91, JIS B-7734, ASTM E-384 and ISO 146		
PHOTOGRAPHIC DEVICE		Capable to mount photographic device (Option)		
DIMENSIONS		W 190mm X D 430mm X H 520mm		
WEIGHT		39kg	40kg	42kg
POWER SUPPLY		Single phase AC 110V/220V ±10V / 50HZ		

* Other special requested test load up to 2000gf can be offered

Standard Accessories

NO.	ITEM	QUANTITY
1	X-Y STAGE	1
2	PRECISION VISE	1
3	STANDARD TEST BLOCK (700HV)	1
4	STANDARD TEST BLOCK (400HV)	1
5	HV DIAMOND INDENTER (BUILT-IN)	1
6	ELECTRONIC MEASURING MICROSCOPE 10x	1
7	OBJECT LENS	10x
8	(BUILT-IN)	40x or 50x
9	LEVEL ADJUSTING LEG	4
10	LEVEL	1
11	INDENTER COVER (BUILT-IN)	1
12	MACHINE COVER	1
13	SPARE LIGHT SOURCE BULB (12V 50W)	2
14	SPARE FUSE 200-240V 2A	2
15	POWER CORD	1
16	INSTRUCTION & MAINTENANCE MANUAL	1
17	AUXILIARY TOOLS	1
18	ACCESSORY BOX	1

Optional Accessories:



Universal Inclining Holder



Fine specimen holders



Thin specimen holder



Object lens



Dual indenters turret



Data printer