

Optional accessories

Micro Vickers hardness testing machines
Vickers hardness testing machines



Measuring microscope

11AAC129 Measuring microscope
*For HM-210 and HM-220 System B, C, and D

Objective lens (Factory option)

Objective lenses (Calibration by Mitutoyo required for replacements/changes)
Please inquire at your nearest Mitutoyo sales office
*Lens unit consists of lens holder and objective lens

For **HM 200 Series**
2X: **11AAC104**
5X: **11AAC105**
10X: **11AAC106**
20X: **11AAC107**
100X: **11AAC108**

Diamond indenter

19BAA059MPA Vickers indenter with ISO certificate
Applicable model **HM-210, HM-220**
19BAA062MPA Knoop indenter with ISO certificate
Applicable model **HM-210, HM-220**
11AAC109 Indenter shaft unit (with knoop indenter)*
Applicable model **HM-210**
11AAC110 Indenter shaft unit (with knoop indenter)*
Applicable model **HM-220**

* Factory option

Measuring microscope

11AAC718 Measuring microscope
*For HV-110 and HV-120 System B, C, and D

Objective lens (Factory option)

Objective lenses (Calibration by Mitutoyo required for replacements/changes)
Please inquire at your nearest Mitutoyo sales office

*For HV-110/120
*Lens holder is incorporated in the main unit of the testing machine
2x: **11AAC712** 50x: **11AAC715**
5x: **11AAC713** 100x: **11AAC716**
20x: **11AAC714**

Diamond indenter/Carbide ball indenter

19BAA060MPA Vickers indenter with ISO certificate
19BAA063MPA Knoop indenter with ISO certificate
19BAA277 Carbide ball Indenter Brinell (incl. 1pc. carbide ball ø1mm)
19BAA279 Carbide ball Indenter Brinell (incl. 1pc. carbide ball ø1mm)
19BAA281 Carbide ball for Brinell hardness test (1pc. ø1mm)
19BAA283 Carbide ball for Brinell hardness test (1pc. ø2.5mm)

Brinell weight

11AAC697 Brinell weight (0.5kgf)*³
11AAC698 Brinell weight (1.25kgf)*³
11AAC699 Brinell weight (5.625kgf)*³
11AAC700 Brinell weight (12.5kgf)*³

*³ For HV-110/120

External output application

264-504
Digimatic mini processor DP-1VR
Calculation of hardness values, statistical calculation, and control limit values can be performed
For **HM-210A/HM-220A/HV-110A/HV-120A**
Note that a connection cable is not supplied with the **DP-1VR** and must be ordered separately. (See below.)
Connection cable (1m) **HM-200/HV100: 936937**



02AZD810D U-WAVE-R
*For **HM-210A/HM-220A/HV-110A/HV-120A**
02AZD880D U-WAVE-T buzzer type
*For **HM-210A/HM-220A/HV-110A/HV-120A**
No. **02AZD790D U-WAVE-T** dedicated cable
*For **HM-210A/HM-220A/HV-110A/HV-120A**

Hardness reference materials (for HM Series)

63ETB497	200	HV0,01
63ETB499	300	HV0,01
63ETB595	200	HV0,1
63ETB601	500	HV0,1
63ETB606	750	HV0,1
63ETB629	200	HV0,3
63ETB635	500	HV0,3
63ETB640	750	HV0,3
63ETB664	200	HV1
63ETB670	500	HV1
63ETB675	750	HV1

Please refer to page 55 for a far more wider choice of reference material.

Hardness reference materials (HV Series)

63ETB764	200	HV1
63ETB769	450	HV1
63ETB775	750	HV1
63ETB743	200	HV10
63ETB749	500	HV10
63ETB754	750	HV10
63ETB869	200	HV20
63ETB875	500	HV20
63ETB880	750	HV20
63ETB891	200	HV30
63ETB897	500	HV30
63ETB902	750	HV30
Brinell standard block		
63ETB299	80	HBW 2,5/62,5

Please refer to page 55 for a far more wider choice of reference material.

02AGD600C
Printer DPU-414
With connection cable



*For **HM-210A/HM-220A/HV-110A/HV-120A**

11AAC236
Data processing software
See page 54 for details