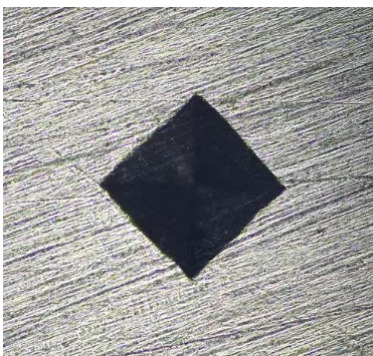
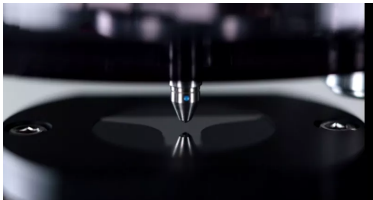
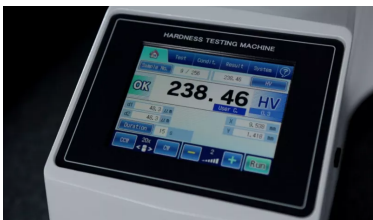
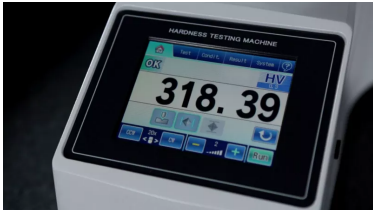




HM-220 A-type set, double indenter shaft

Item number: 810-406-13-ASET2

Images



Specification**Applicable standards:**

Applicable standards Vickers : ISO 6507-2, ASTM E92, ASTM E384, JIS B 7725

Applicable standards Knoop : ISO 4545-2, ASTM E92, ASTM E384, JIS B 7734

Applicable standards KC fracture toughness : based on IF method (JIS R1697)

Applicable test methods:

Applicable Vickers scales : HV0,00005*; HV0,0001*; HV0,0002*; HV0,0003*; HV0,0005*; HV0,001; HV0,002; HV0,003; HV0,005; HV0,01; HV0,02; HV0,03; HV0,05; HV0,1; HV0,2; HV0,3; HV0,5; HV1; HV2

Applicable Knoop scales : HK0,01; HK0,02; HK0,03; HK0,05; HK0,1; HK0,2; HK0,3; HK0,5; HK1; HK2

Machine Control:

Control method : 5,7" touch screen display control

Software functions Touch screen : 3 display formats (standard screen, list screen with average hardness, simplified screen), Turret control, test force control, GO/NG judgment, test set-up, test condition guide, curve and user correction, hardness conversion, statistics calculation

Software functions AVPAK : Turret and stage control, contrast level indicator for easy focus, autofocus (D-Types), automatic illumination, auto reading function, ISO 18203 conform hardening depth evaluation presets, CHD, NHD, SHD; Jominy Test; guide Function for single test/pattern test/standard test, curved surface compensation, hardness conversion, overview image creation (C- and -D-Types), part programming, incl. edge detection, coordinate alignment, pattern creation and application, report creation, external data output, StatusMonitor compatibility

Language support : Japanese, English, German, French, Italian, Spanish, Korean, Traditional Chinese, Simplified Chinese, Turkish, Portuguese

Resolution : 0,01 HV units (settable)

Data output:

MeasurLink capability : yes

Data output : RS-232C, SPC Digimatic D-type connection, USB

Test force:

Test Force Range :	0.4903-19610mN (0,0005-2kgf)
Test force generation :	Electromagnetic (Voice coil)
Test force switching :	Touch panel
Duration time :	5-999s. 1 s. increments
Indenter approach speed :	60 µm, below HV0,03 selectable in 1µm/s. increments

Optical system:

Optical system :	Infinitely corrected
Standard objective lenses :	MH Plan 10x and 50x
Light source illumination unit :	White LED
Aperture diaphragm :	variable
Measuring microscope :	standard
Focus method :	manual

XYZ axis:

XY stage :	810-420
Z-axis :	manual elevation unit
Range XY :	25x25 mm

Turret:

Turret drive method :	Motor/Manual
Turret control method :	Touch panel
Number of objective lens ports :	4 (2 equipped)
Number of indenter ports :	2 (2 equipped)

Functional dimensions:

Stage/Anvil adaption :	Ø19 mm
Max. specimen height :	133 mm
Throat depth :	160 mm
Maximum specimen weight :	3 kg

Main unit data:

External dimensions WxDxH :	341x670x581 mm
Mass main unit :	42 kg
Power supply :	AC100 -240V Auto-selection
Power consumption W :	44
Operation temperature °C :	5-40
Relative humidity RH :	80% or lower without condensation
Vibration Frequency :	5Hz or lower

Standard accessories:

Diamond indenter :	included
Reference material :	700 HV0,3 Ø25mm x 6mm
Water level :	mounted on main unit
Inspection certificate :	included
Power cord :	not included
