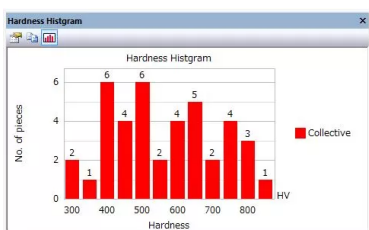
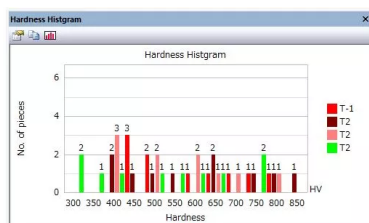
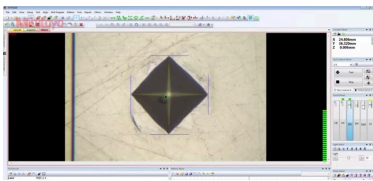
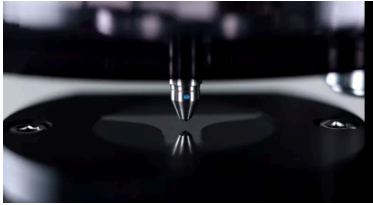




HM-220 D-Type set

Item number: 810-409-11-DSET1

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 : AVPAK software control

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, Simplified Chinese, Traditional Chinese, Turkish, Portuguese, Polish, Czech, Hungarian, Dutch, Russian, Thai

Resolution : 0,01 HV units (settable)

Data output:

MeasurLink capability : yes

Data output : PDF, Excel

Test force:

Test Force Range :	0.4903-19610mN (0,0005-2kgf)
Test force generation :	Electromagnetic (Voice coil)
Test force switching :	AVPAK
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 2x, 10x, 50x and 100x
Light source illumination unit :	White LED
Aperture diaphragm :	variable
Measuring microscope :	optional
Focus method :	automatic

XYZ axis:

XY stage :	810-462-10
Z-axis :	manual elevation unit
Autofocus unit :	810-465
Range XY :	100x100 mm
Range Z-axis :	1.4 mm

Turret:

Turret drive method :	Motor/Manual
Turret control method :	AVPAK
Number of objective lens ports :	4 (2 equipped)
Number of indenter ports :	2 (1 equipped)

Functional dimensions:

Stage/Anvil adaption :	Ø19 mm
Max. specimen height :	72 mm
Throat depth :	160 mm
Maximum specimen weight :	3 kg

Main unit data:

External dimensions WxDxH :	383x586x683 mm
Mass main unit :	53 kg
Power supply :	AC100 -240V Auto-selection
Power consumption W :	110
Operation temperature °C :	5-40

Relative humidity RH :	80% or lower without condensation
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Vibration Frequency :	5Hz or lower
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Standard accessories:

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