

219 | Strograph-HT

(Fully-automated Tensile Testing Machine for rubber with high temperature chamber)



The Strograph-HT, a fully-automated tensile testing machine is designed to conduct tests on rubbers in environments ranging from RT+20°C to 100°C.

The testing machine comprises chamber, specimen magazine, marking unit, thickness measuring unit, specimen feeding unit, tensile measurement unit, extensometer, specimen loading/unloading unit and PC.

Once specimens are loaded into specimen magazine, this advanced system conducts continuous tensile testing of 300 specimens without human intervention.

■ RELATED TESTING STANDARDS

ISO 37	Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties
JIS K 6251	Rubber, vulcanized or thermoplastic- Determination of tensile stress-strain properties

■ FEATURES

- *Fully-automated tensile testing system for rubber under high-temperature environments up to 100°C.*
- *Effective stroke approx. 700mm. Suitable for large elongation specimen..*
- *CCD optical extensometer. Minimum tracking span 20mm, accuracy: minimum 0.1mm, resolution 0.04mm.*
- *Maximum 300 specimens (t=4mm) can be tested continuously.*

■ SPECIFICATIONS

Model	HT
Temperature range	RT+20°C to 100°C
Maximum load capacity	1kN
Load accuracy	±1.0%
Test speed	0.5 to 500mm/min. (14 steps from 0.5, 1, 2, 3, 5, 10, 20, 25, 30, 50, 100, 200, 300, 500mm/min.)
Test speed accuracy	±1.0%
Effective stroke	700mm
Thickness gauge	● Measurement points: 3 points ● Anvil: Flat Ø5mm
Extensometer	● CCD optical type ● Gauge length 20mm ● Least count: 0.1mm ● Resolution: 0.04mm ● Measurable specimen color: Black colored specimen only ● Specimen mark: Silver ● Measurement condition: Measured from outside of chamber
Specimen magazine	Max. 300 specimens (n=6 specimens x 50 trays)
Safety devices	● Rod type limiter ● Emergency stop switch
Power supply	● Main unit: Three-phase, AC200V, 50/60Hz, 10A ● Chamber: Three-phase, AC200V, 50/60Hz, 30A ● PC: Single-phase, AC100V, 50/60Hz, 5A
Compressed air	0.5MPa, 40L/min.
Dimensions (Approx.)	● Main unit: W1780 x D920 x H2230mm ● Chamber: W630 x D1070 x H1300mm ● PC: W670 x D770 x H1650mm
Weight (Approx.)	● Main unit: 650kg ● PC: 76kg

Specifications are subject to change without notice.



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