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No.218 Strograph AP4

Fully automated tensile testing machine for plastic specimens



Toyoseiki Strograph AP4 is a fully automated tensile testing machine for plastic specimens meeting the testing requirements of ISO527-2 (1A) and ASTM D638 (Type I & II). The machine automatically operates a sequential operation from feeding of specimens, dimensional measurement, tensile testing and data processing.

FEATURES

- Applicable from fine-elongation to large deformation
- Automatic measurement of specimen width and thickness
- Space-saving design
- Data is saved in the data processing unit and measurement data with graph can be printed-out.
- Tray type specimen rack makes it easy to manage specimens. (Up to 200 specimens can be loaded)

SPECIFICATIONS

Kind of specimens

■ISO 527-2 (JIS K 7161-2) Dumbbell specimen 1A

■ASTM D638 TYPE I, TYPE IV

Multiple choices possible

Main unit	
Capacity	20kN
Speed	0.0005 to 500mm/min.
Return speed	Max. 500mm/min.
Effective stroke	Approx. 700mm (When B-1 chuck is used)

Measurement part	
Load cell	■20kN
	■10kN
	■5kN
	To be selected upon order
Force range	Range-less (Equivalent to x1 to x100
Force display unit	Ν
Zeroing	One-touch operation
Sag correction	Automatic

Chucks (Grips)

Pneumatic (Air pressure 0.4MPa or more)

Specimen thickness and width measurement part	
Thickness gauge	Digital thickness gauge
	Resolution: 1/100mm
	Accuracy: ±2/100mm
Measurement points	3 points (Within gauge length)
Anvils	Tip Ø2.4mm (Sphere)
	Fix side Ø2mm (Flat)

Extensometer	
Tracking system	Contact system
Gauge length	50mm
Tracking accuracy	Fine range: ±1µm (0 to 100µm), ±1.5µm (150µm)
	Large range: ±1% (10mm or more)
Effective stroke	350mm

Specimen feeder	
Specimen cartridge	Tray system
Number of trays	Max. 40 trays
Number of	Max. 5 specimens
specimens per tray	

Data processing unit	
Data processing unit	Personal computer
	LCD monitor
	 Printer (Optional)
Test condition	Date
setting items	Operator name
	Specimen shape name
	Specimen lot
	Grade name
	■ Load range
	Test speed
	etc.
Data processing	■ Thickness
items	■ Width
	Elastic modulus
	Yield point strength
	Yield point strain
	Maximum point strength
	Maximum point strain
	Fracture point strength
	Fracture point strain
	 Fracture point nominal strain
	Average value of the same lot
	Standard deviation of the same lot
Print-out items	Thickness
	■ Width
	Elastic modulus
	Yield point strength
	Yield point strain
	Maximum point strength
	Maximum point strain
	Fracture point strength
	Fracture point strain
	Fracture point nominal strain
	Average value of the same lot
	Standard deviation of the same lot
	Stress-strain curve

Safety guards

- Rod type limiter
- Emergency stop switch

Dimensions, Weight and Utilities	
Dimensions	W1500 x D900 x H2000mm
Weight	Approx. 620kg
Power supply	■ Single-phase, AC100V, 50Hz or 60Hz, 1.0kVA (Main unit)
	■ Single-phase, AC100V, 50Hz or 60Hz, 0.5kVA (PC)
Compressed air	0.5MPa, 40L/min.

Specifications are subject to change without notice.



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