No. 140-SAS AUTOMATIC CAPILLARY RHEOMETER

No.140-SAS (Light Load Type)

No.140-SAS (Heavy Load Type)

JIS-K7199, ASTM-D3835, ISO-11443

FEATURE

This tester evaluates the flow properties of molten plastic during the forming process. The molten test specimen, inside the cylinder heated to a specific temperature, is extruded from the capillary die. During the extrusion, the shear stress and the shear viscosity is measured for calculating the melt viscosity of the test specimen. The tester is equipped with an automatic cleaning system which enables the operator to continuously run a single complete test cycle (option of 3 test cycles). The tester can be chosen between a Light Load Type and a Heavy Load Type according to the test specimen's maximum load.

SPECIFICATION

Model	No.140-SAS (Light Load Type)	No.140-SAS (Heavy Load Type)
Hangings	1 or 3 Hangings (2 kinds)	
Maximum Load	Max. 10 kN	Max. 20 kN
Load Measuring	Load Cell: Max. 10 kN (Scale 0.1 N)	Load Cell: Max. 20 kN (Scale 0.1 N)
Ram Speed	0.5 to 500 mm/min	0.5 to 1,000 mm/min
Capillary Die	φ0.5 to φ2 mm (To be specified)	
Piston	φ9.510 ± 0.005 mm, L6.35 ± 0.10 mm	
Cylinder	Inner φ9.550 ± 0.025 mm, L160 mm	Inner φ9.550 ± 0.025 mm, L200 mm
Temperature Range	Max. 400 ˚C	
Software	Windows Compatible	
Accessories	Cleaning Rod (Die & Cylinder), Solvent Cleaning Device, Powder Specimen Compatible Sample Cup, Cup Holder, Funnel, Spirit Level, Dust Box, Gauze, Air Gun, Ratchet Wrench	
Option	Hastelloy Spec, Specimen Purging Device, Specimen Drying Device, Air Compressor, Temperature Calibration Device, Exhaust Fan, Smoke-Detection Sensor	
Power Source	AC 200 V, 1-Phase, 10 A, 50/60 Hz	
Air Source	0.5 MPa or More	
Dimensions/ Weight (Approx.)	W600 × D630 × H1,070 mm/ 180 kg	W600 × D630 × H1,280 mm/ 200 kg

*Power source, dimensions, weight may differ by specifications.