

HST-CR400D Computer Controlled Capillary Rheometer

Product introduction



Scope of application:

1、 This machine is suitable for meeting the "capillary" part of ISO 11443 "《Determination of the fluidity of plastics using capillary and slit-die rheometers》 and HG/T 4300-2012

《Rubber.Measurement of rheological properties.Piston type capillary rheometer methods》 standard, and is used to determine the shear rate of plastics and polymer materials and the fluidity of melts under shear stress under certain temperature conditions, including the apparent viscosity of thermoplastics.

2、 This rheometer is a computer-controlled intelligent capillary rheometer, which can work under constant pressure, constant speed, constant temperature, different heating rates, different temperatures, different shear rates, etc. The software automatically determines the pressure, temperature, speed and other test parameters of different plastics under different die diameters. The software automatically draws curves and saves and prints data.

3、Different specifications (low temperature type, high temperature type, different pressures, different rod diameters, etc.) can be customized according to user requirements.

Main technical parameters and accuracy

- 1、Temperature range: Room temperature~400℃
- 2、Heating rate: 1-10℃/min, Continuously adjustable, and rapid heating
- 3、Temperature measurement display accuracy: 0.1℃
- 4、Pressure range : 1-100MPa±0.5% (Can be customized according to customer requirements,price negotiable)
- 5、Maximum driving force : 10KN 、 20KN (Can be customized according to customer requirements,price negotiable)
- 6、Pressure measurement accuracy: ±0.5%FS
- 7、Pressure resolution: 0.1Mpa
- 8、Velocity range: 0.01-500mm/min
- 9、Deformation measurement accuracy: ±0.5%FS
- 10、Plug diameter: φ12 mm (Can be customized according to customer requirements,price negotiable)
- 11、Plug area: 113.04mm²
- 12、Discharge die specification: Ø 1×5、Ø 1×10、Ø1×20、Ø1×40 (mm×mm)
(Can be customized according to customer requirements,price negotiable)
- 13、Discharge die material: tungsten carbide
- 14、Power supply: AC220V, 50Hz, power<1000W
- 15、Equipment dimensions:(L*W*H)810*460*1950mm Packed dimension:950*650*2020mm
- 16、Weight: 165Kg Packed weight:230kg