

HST-CR400B Computer Controlled Capillary Rheometer

Product introduction



Scope of application:

1、 This machine is suitable for measuring the shear rate of plastics and polymer materials and the fluidity of the melt under shear stress at a certain temperature, including the apparent viscosity of thermoplastics and thermosetting materials.

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. This machine has a high pressure、double rod single pressure head、frame H-type structure.

Main technical parameters and accuracy

- 1、Temperature range: Room temperature~400℃ (Can be customized according to customer requirements, price negotiable)
- 2、Heating rate: 1-6℃/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 : 20KN (50KN 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