

HST-TR200A Torque Rheometer



Host machine+60ml Mixer



Host machine+ Single screw extruder

I 、 Scope of application:

Torque rheometer is an ideal equipment to study the flow and deformation, plasticization, thermal shear stability, dynamic rheological properties and plasticization behavior of polymer materials and show the results in the form of torque-time and torque-temperature, and the mixing of multi-component materials, the cross-linking curing of thermosetting resins, the vulcanization of elastomers, the dynamic stability of materials and the influence of screw rotating speed on the processing performance of the system, etc. It can be widely used in scientific research and production, laboratory simulation in the mixing, extrusion process, a series of data to guide the reality of formula research and production, can be similar to the actual processing, continuous, accurate, reliable to determine the rheological properties of the material.

II 、 Product features:

It has modular design and ready-to-use function: the host is the control center, which has the function of driving and controlling the measuring unit; the controlled auxiliary units (such as mixing units and extrusion units) are intelligent measuring units for specific applications, which can transmit the measurement data to the host through the bus system. It can be equipped with various auxiliary units to complete laboratory simulation experiments for different purposes.

III. Application area:

- 1、UPVC processing performance research and material development
- 2、Development and processing properties of thermoplastic materials
- 3、Thermoplastic material development and processing performance research
- 4、Teaching and scientific research application

IV. Performance parameter

4.1、Host machine

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| 4.1.1、Motor power (Panasonic motor, controller): | 3.0kW |
| 4.1.2、Motor rotating speed: | 2000r/min |
| 4.1.3、Reduction ratio (China Hubei Kefeng reducer) | 15: 1 |
| 4.1.4、Rotating speed range: | 0.1~120 rpm |
| 4.1.5、Speed control accuracy: | ±0.2%F.S.. |
| 4.1.6、Torque measurement range: | 0 ~ 200Nm (Rated torque 300Nm) |
| 4.1.7、Torque measurement accuracy: | ±0.3%F.S. |
| 4.1.8、Melt pressure measurement range: | 0.1~100Mpa (It can be customized according to user requirements, and the price negotiable.) |
| 4.1.9、Pressure measurement accuracy: | +0.3 %F.S. |
| 4.1.10、Temperature control range: | Room temperature~350℃
(five-way temperature control) |
| 4.1.11、Temperature control accuracy: | ±0.5℃ |
| 4.1.12、Graphic display: | Rotating speed, torque, temperature, pressure |
| 4.1.13、Voltage: | AC380V 7.5kw |
| iameter: Φ5, Outer Diameter: Φ10 | |