

## FT4 Specifications

### SYSTEM:-

FT4 Powder Rheometer intended for use in a laboratory environment for measuring the rheological properties of powders, pastes and semi-solids.

Complies with the following EMC specifications and ASTM International standards:

- EN61000-3-2:2001
- EN61000-3-3: 1995
- EN61326: 1997 + A2:2001
- ASTM D7891

Certificates of conformity available on request.

### PERFORMANCE: -

Force	+/- 50N maximum 0.0001N resolution +/-
Torque	900mNm maximum 0.002mNm resolution
Vertical travel	185mm
Rotor speed	120 rpm maximum
Axial speed	30 mm/sec maximum
Residual energy level in air	< 2mJ

### COMPUTER SPECIFICATION: -

The instrument incorporates an integrated high specification processor and operates on a Microsoft Windows Embedded operating system. It has built in networking capability and a universal serial bus to provide serial daisy chaining of all automated accessories.

### CONSTRUCTION: -

Working zone:	316 stainless steel
Contact parts:	316 stainless steel Borosilicate glass Delrin and Peek plastics

### DIMENSIONS: -

Main instrument	306 x 306 x 760mm high
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### WEIGHTS: -

Main instrument	22kg net
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### POWER REQUIREMENTS: -

Supply voltage range:	90 to 264VAC
Input current range:	1.6A at 120VAC 0.8A at 230VAC
Input frequency range:	47Hz to 63Hz

### ENVIRONMENTAL CONDITIONS: -

Humidity range	20-80% non-condensing
Temperature range (operating)	10°C to 40°C
Temperature range (storage)	0°C to 50°C

### VESSELS: -

Precision bore, borosilicate glass tube.  
Standard sizes:-

25mm x 10ml Split Vessel
25mm x 25ml Split Vessel
25mm x 35ml Vessel
50mm x 85ml Split Vessel
50mm x 160ml Split Vessel
50mm x 260ml Vessel
62mm x 137ml Split Vessel
62mm x 240ml Split Vessel
62mm x 400ml Vessel

### BLADES: -

Hardened stainless steel.

Standard sizes:-

23.5mm diameter x 6mm wide
48.0mm diameter x 10mm wide
60.0mm diameter x 10mm wide

### CALIBRATION KIT: -

Force, torque, height, carriage velocity and spindle speed are configured for calibration.

Calibration fixtures, weights and height gauges are supplied as part of the calibration kit.

A calibration log is automatically kept of the current and all previous calibrations.

### ACCESSORIES: -

25mm Accessories Kit
50mm Accessories Kit
62mm Accessories Kit
Aeration Control Kit
24mm Shear Cell
48mm Shear Cell
24mm Wall Friction Kit
48mm Wall Friction Kit
1ml Shear Cell

### SOFTWARE: -

All Control and Data Acquisition Software is supplied and configured with the instrument and includes Microsoft Office

