

# PFT™ Powder Flow Tester

...affordable testing for powder characterization



The PFT Powder Flow Tester brings quick and easy analysis of powder flow behavior in industrial processing equipment. Evaluate powder discharge from storage containers. Use as QC check for incoming materials. Rapidly characterize new formulations for flowability and adjust composition to match flow behavior of established products.

#### Choice of Test Options:

- Flow Function
- Time Consolidated Test with Flow Function
- Wall Friction
- Bulk Density

#### Choice of Flow Function Tests:

- Demo (8 minutes)
- Time Consolidation (user-defined)
- Standard (38 minutes)

#### Real Time Clock Displays:

- Test Step
- Remaining Time to Completion

#### Shearing Algorithm Captures:

- Peak Stress Value
- Recognizes "Slip Stick" Materials
- Subsequent Stable Stress Value

#### Data Output:

- Flow Index for Powder Flowability
- Rat-hole Diameter
- Gravity Chute Angle (Wall Friction Angle)
- Arching Dimension (Index)
- Hopper Half Angle
- Bulk Density Curve

#### Compact design with small footprint Tester fits conveniently on workbench

- Depth: 15inches / 38cm
- Height: 27inches / 69cm
- Width: 14inches / 36cm

#### What's Included?

- Instrument
- Powder Flow Pro Software with USB Cable

#### What else is needed?

##### Choose one or both:

- Standard Volume Accessory Kit 230cc Trough & 33cc Vane Lid
- Small Volume Accessory Kit 38cc Trough & 5cc Vane Lid

##### Each of the above include:

- Wall Friction Lid: 304 s/s simulated 2B finish
- Inner Catch Tray w/ Scraper Tool
- Cleaning Brush
- Outer Catch Tray
- Powder Scoop

#### Optional Accessories

- Wall Friction Lids in Mild Steel
- Temperature Probe
- Sieve Kit Standard or Small Volume
- Sand Castle Demonstration Kit
- 22-28RA, Tivar 88 or special order
- Humidity Sensor
- Carrying Case for easy transport
- Powder Flow Demonstration Kit

#### PFT Powder Flow Tester Specifications

Load for Vertical Axis Compression: 7kg — Accuracy ±0.6% FSR

Axial Speeds: 0.1mm/second up to 5mm/second

Distance: Accuracy ±0.3mm

Torque: ±7.0 N•m — Accuracy ±1.2% FSR

Trough Rotational Speeds: 1 revolution/hour (RPH) up to 5 RPH

Temperature Sensing: -20°C to 120°C\*

Humidity Sensing: 10% to 95% RH ±5%†

Dimensions (wxdxh): (cm) 36.2x39.7x67.6 (in) 14¼x5⅝x26⅝

Weight: 34 kg (75 lb)

\* Requires Part No. DVP-94Y

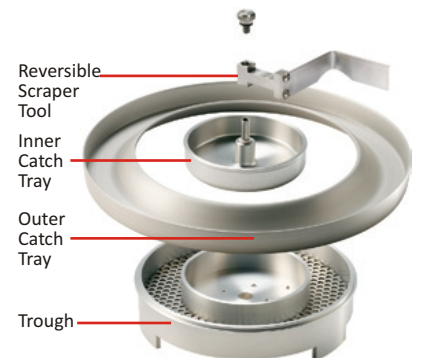
† Requires Part No. PFT-607Y



Closed-up View of Vane Lid used for Flow Function Test.



Closed-up View of Wall Friction Lid for wall friction test and density test



Outer and Inner Catch Trays with Scraper Tool for Sample Preparation Trough



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