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

**Real Time Clock Displays:**
- Test Step
- Remaining Time to Completion

**Shearing Algorithm Captures:**
- Peak Stress Value
- Subsequent Stable Stress Value
- Recognizes “Slip Stick” Materials

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

**Compact design** with small footprint
Tester fits conveniently on workbench
Depth: 15inches / 38cm
Width: 14inches / 36cm
Height: 27inches / 69cm

Developed in association with
The Wolfson Centre for Bulk Solids Handling Technology at the University of Greenwich, England.

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**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
- Outer Catch Tray
- Inner Catch Tray w/ Scraper Tool
- Powder Scoop
- Cleaning Brush

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

**Small Volume Vane Lid**
.795-13.252 kPa
Standard Volume Vane Lid
.289-4.819 kPa

ISO CERTIFIED
Powder Flow Pro Software Included

Operation and control of the Powder Flow Tester is accomplished with Powder Flow Pro Software.

Main screen provides choice of basic tests:
- Flow Function
- Wall Friction
- Time Consolidated Flow Function
- Bulk Density

PFT POWDER FLOW TESTER SPECIFICATIONS

Load for Vertical Axis Compression: 7 kg — 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 (wx dx h): (cm) 36.2 x 39.7 x 67.6 (in) 14 ¼ x 15 5/8 x 26 5/8
Weight: 34 kg (75 lb)

MINIMUM COMPUTER SPECIFICATIONS FOR POWDER FLOW PRO SOFTWARE

2GHz processor with 1 GB of RAM and 30 MB hard drive space available
1024x768 video resolution with 128 MB of graphics memory
Windows XP, Vista or Windows 7 (32 and 64 bit) with one USB or RS-232 port

* Requires Part No. DVP-94Y † Requires Part No. PFT-607Y

ISO 9001:2008 CERTIFIED

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