PFT[™] Powder Flow Tester

...affordable testing for powder characterization

The PFT Powder Flow Tester brings quick and easy analysis of powder fl ow 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:

- Standard 5 Point (25 minutes)
- Quick 5 Point (16 minutes)
- Quick 2 Point (10 minutes)
- Time Consolidation (Variable)

Real Time Clock Displays:

- Test Step
- Remaining Time to Completion

Data Output:

- Flow Function
- Flow Index
- Arching Dimension
- Internal Friction Angle
- Rat-hole Diameter
- Hopper Half Angle
- Gravity Chute Angle
- Wall Friction Angle
- Bulk Density
- Compressibility Index and Ratio

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



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

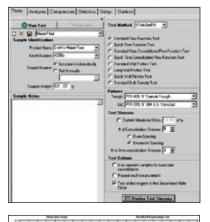
Wall Friction Lids in Mild Steel 22-28RA, Tivar 88 or special order Temperature Probe Humidity Sensor Sieve Kit Standard or Small Volume



Small Volume Vane Lid 43cc Sample Size Standard Volume Vane Lid 263cc Sample Size

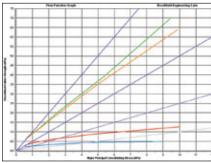
Powder Flow Pro Software Included

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



Stress data output screen captures "normal stress" and "shear stress" values and plots data in graphical format (calculates Mohr Circle Failure Loci).

Flow Function test produces graphs of powder flow behavior which show: Unconfirmed Failure Strength vs. Major Principal Consolidating Stress

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 Spee	ds: 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) $36.2 \times 39.7 \times 67.6$ (in) $14^{1/4} \times 15^{5/8} \times 26^{5/8}$	
Weight:	34 kg (75 lb)	
* Requires Part No. DVP-94Y	† Requires Part No. PFT-607Y	

Requires Part No. DVP-94Y

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 7, 8 or 10 (32 and 64 Bit) with one USB or RS-232 port	

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



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



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

