

Data Sheet

J. M. CANTY SOLIDSIZER™

Particle Size Analysis



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Call us on +44 (0)118 916 9420 | Email info@247able.com

CANTY

PROCESS TECHNOLOGY

SOLIDSIZER™ - PARTICLE SIZE ANALYSIS



PARTICLE SIZING

The CANTY SolidSizer™ is an excellent tool for lab environments to determine particle size, shape and distribution, thereby eliminating the need for sieve analysis and the errors that comes with sieves.

THE CANTY ADVANTAGE

The CANTY SolidSizer™ is a vision-based analyzer used with CANTYVISION™ software for measuring particle size and shape distributions of dry granular material. The software accurately measures multiple aspects of the particles including but not limited to area, perimeter, minor axis, major axis, and aspect ratio. Sieving only measures particle size in one dimension. Furthermore, dynamic imaging measurements can correlate directly to sieve analysis so no changes to QC documents are required. The SolidSizer™ can correlate within 3% retained of each sieve screen. Regarding analysis time, a typical sieve analysis takes anywhere from 15-30 minutes including cleaning and setup. On the SolidSizer™, the same analysis can be completed in as short as 2 minutes. Moreover, multiple virtual sieve stacks can be setup in CANTYVISION™ software allowing products currently sieved using different sieve stacks to all be analyzed on one instrument. Beyond correlating to sieves, customers find benefits in analyzing the particle shape data provided as particle shape impacts the performance of many granular materials. Reduce your analysis time and improve your analysis by using the Canty SolidSizer™.

FEATURES

- Real time 2D particle size distribution analysis
- Particle shape analysis by aspect ratio, circularity, convexity, solidity, sphericity, etc
- Ability to correlate data to sieves
- Adaptable data output so that it matches current QC documents
- Data can be output via .csv or ODBC for local storage or uploading to LIMS systems
- System auto calibrates and auto focuses
- Front and back lighting available for color analysis
- **Analysis in as short as 2 minutes**

APPLICATIONS

- Frac Sand and Proppant - ASTM D8200
- Catalyst - ASTM D8392
- Glass Beads analysis - ASTM D7681 and D7971
- Fertilizer
- Aggregate and Mining
- Food (Sugar)
- Particle Size and Shape - ASTM E3338
- Replace sieve analysis
- Lab, At-line, and Online Units Available

BENEFITS

- Virtually eliminates lab screening time
- Easily adaptable for different product sizes
- Eliminate the time, errors, and costs associated with sieves and lasers technologies
- Easy setup and calibration

SPECIFICATIONS

- Input Power: 120V AC / 60 Hz or 240V AC / 50 Hz
 - Gigabit Ethernet Camera Resolution
 - High Intensity LED Lighting
 - Particle sizes 20 microns and greater can be analyzed in adjustable ranges. Standard lab unit can correlate to sieves in adjustable ranges between 500 and 7 mesh. Canty manufactures other analyzers better suited for other particle size and sieve stack ranges*
 - SolidSizer™ Footprint : 3'(L), 1'(W), 1.5' (H)
 - CoreUnit™ Footprint : 2'(L), 1.5' (W), 2' (H)
 - No Additional computer or monitor required
- *Information on other analyzers can be found on TA9308-1, TA8748-1, TA10612-1, TA10743-100, and TA12100-1010.

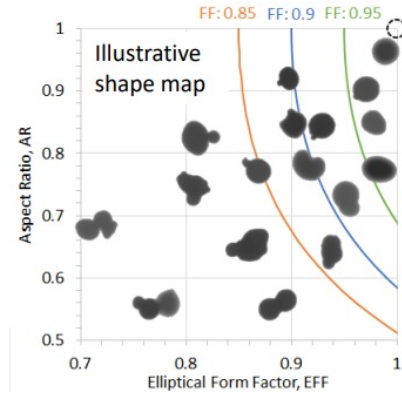
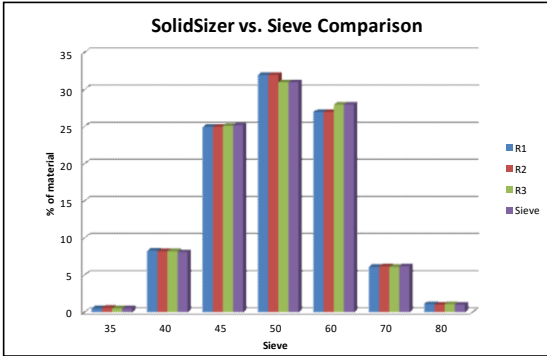
CANTY JM Canty Inc | Buffalo, NY USA
JM Canty Intl Ltd | Dublin, Ireland

Ph: (716) 625 4227
Ph: + 353 (01) 882 9621

Fax: (716) 625 4228
Fax: +353 (01) 882 9622

ORDERING INFORMATION

Part Number	Input Voltage
S M - H 1 K 8 1 1 1	120V AC 60Hz
S M - H 1 K 8 2 1 1	240V AC 50Hz

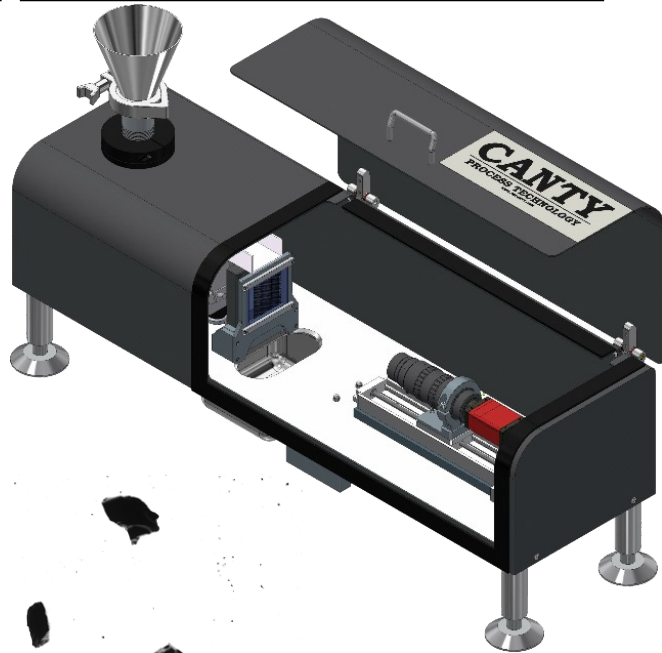


Data can output the same as your current sieves

Shape analysis for customers benefit



CoreUnit™



SolidSizer™