

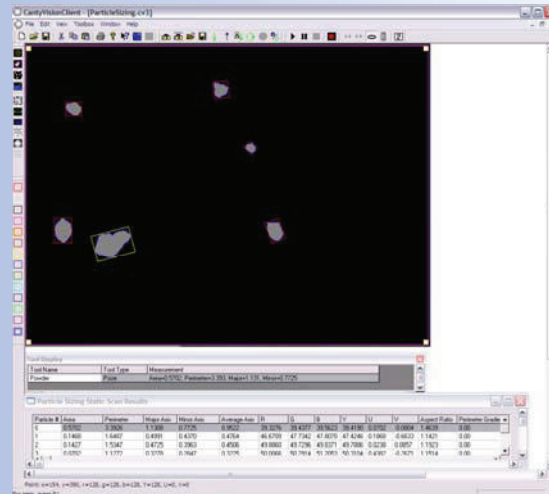
# PARTICLE SIZING SOFTWARE



**CANTY**  
PROCESS TECHNOLOGY

## The Vector System - Accuracy, Reliability You Can Depend On

- Particle Sizing System is powered by a Microsoft Windows based image analysis system
- Analyzes real-time video of your particles using a Cauty Vision Camera System
- Standard video format – can be recorded and stored on a local hard drive or network drive.
- Dual Processors available
- Multiple software process control packages
- 4-20 mA current loop and OPC output options available
- Ethernet network interface standard
- Ability to connect directly to factory for instantaneous support

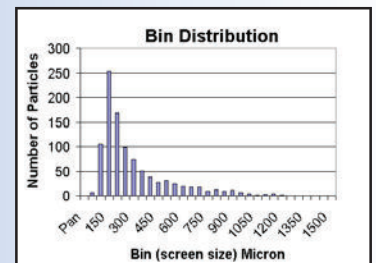
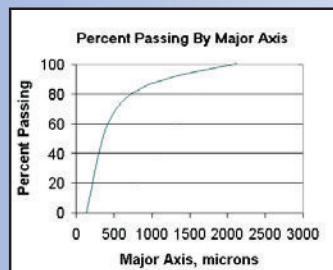
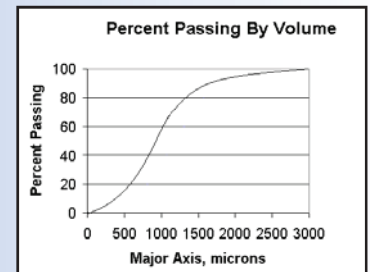


## Particle Size Analysis

- Replaces and correlates to screen analysis
- Particle distribution by major, minor diameter
- Particle area
- Particle perimeter
- Vision camera system establishes size range
- All data is available in EXCEL spreadsheet format
- Various spreadsheet templates provided
- Template macros provide link to latest measurement
- Custom analysis using spreadsheet formulas

## Data Analysis and Graphs

- Histogram Distribution
  - Bin Size
  - Major Axis
  - Minor Axis
  - Average Size
- Percent Passing by Volume vs. Particle Size
  - Major Axis
  - Minor Axis
- Easily customized by user for virtually any custom function or graph
- User can customize EXCEL cell formulas, output to 4-20mA signal, or OPC



## Data Archive

- All data may be stored as archive in electronic format
- Measurement data may be shared by computer network for remote analysis

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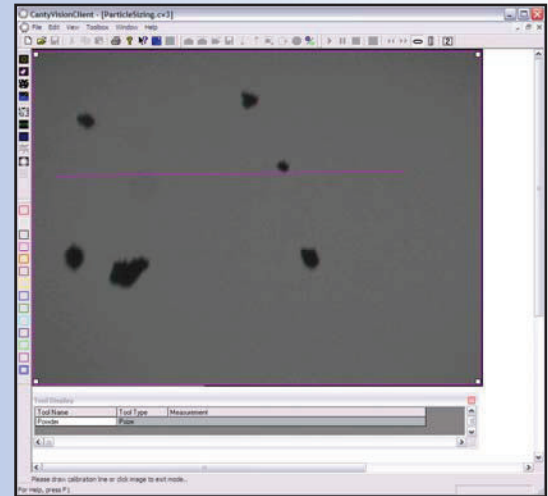
www.jmcanty.com  
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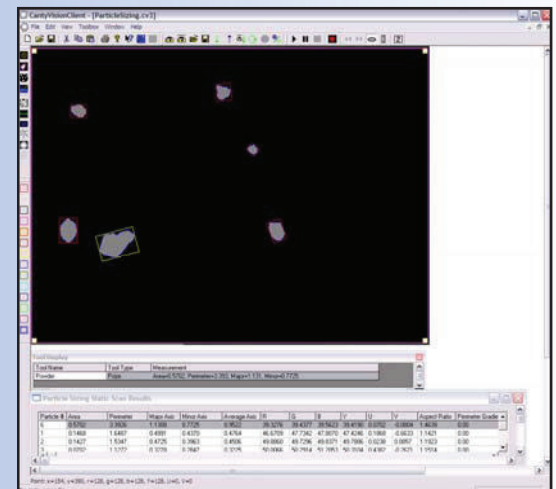
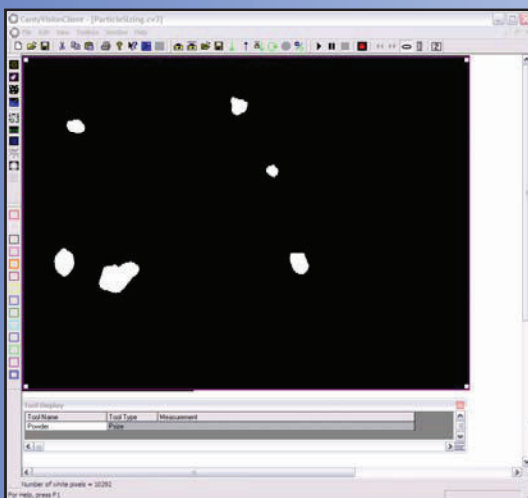
## Easy To Use, Easy To Calibrate

Step 1) Select a portion of the live video image to continuously analyze by placing a boundary box on the live video image. Particles within this box will be analyzed. Any particle outside of his boundary will be discarded.



Step 2) Calibration is easily accomplished by drawing a reference line on the image corresponding to a known size (mm, micron ,etc). A simple graticule or known size reference, such as a microsphere, will be correlated to size of the reference calibration line, providing an accurate scale for particle size analysis.

Step 3) The software then determines a threshold for the image, and each individual particle within the image is digitally mapped and analyzed. The major diameter, minor diameter, area and perimeter are measured, and logged into an EXCEL spreadsheet for each particle detected.



Visual verification of particles truly sets Canty apart from all other systems. Each particle analyzed is clearly displayed on the screen. There is no guessing with a Canty Particle Sizing System – you will be able to visually verify your particle size for unmatched accuracy and repeatability.

For more information about our Canty Vector Systems see document **TA9562-1**

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