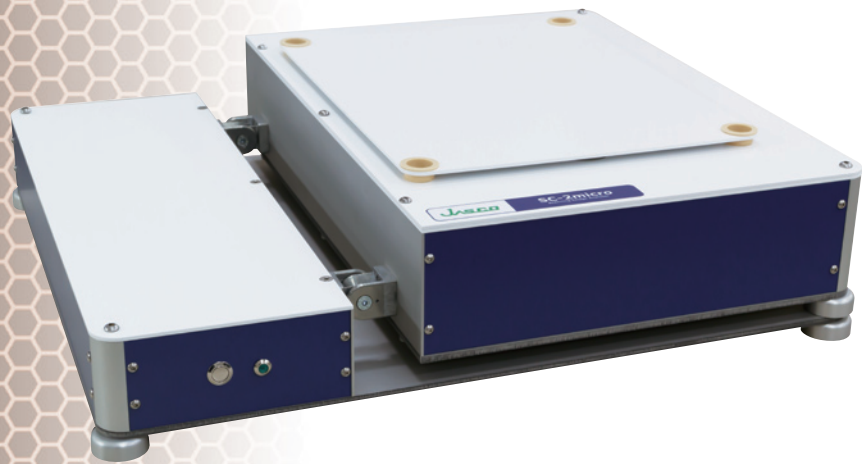




# SC-2micro Scanning Image Analyzer

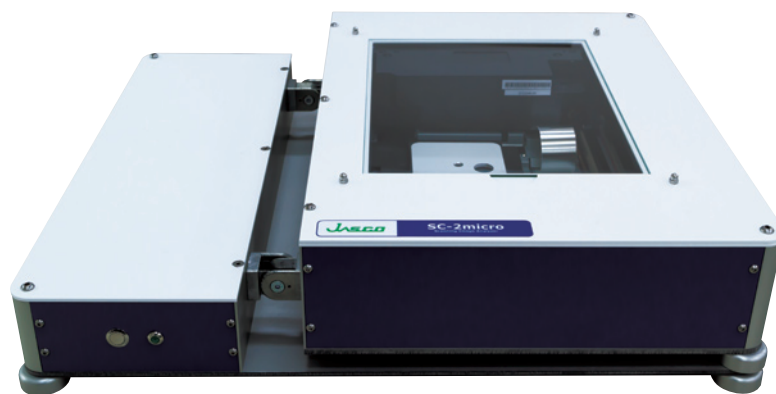


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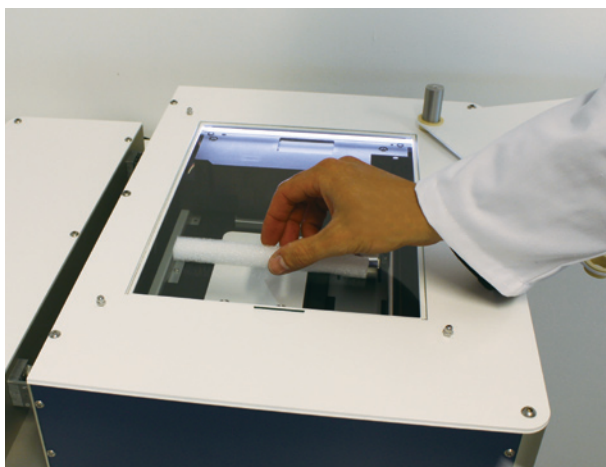
# SC-2micro

## Scanning Image Analyzer

- Size and shape distribution analysis of holes
- Simple operations to obtain analyses in less than a few minutes
- Easy characterization of a sample by various parameters and graph formats

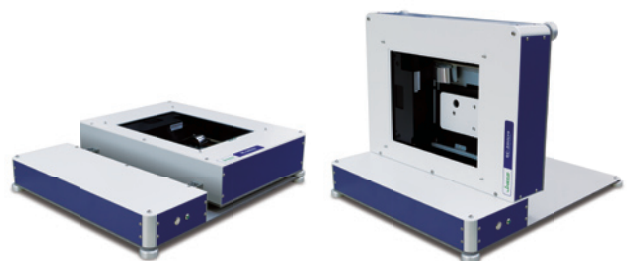


### Measurement of polymer foams



Polymer foam set on a scanning plate

A sample is set on a scanning plate and its surface image is obtained by a scanner. Size and shape distributions of holes of the sample surface are calculated from the obtained image. Size and shape distributions of powder samples and/or length of fiber samples can also be measured.



Level scanner setting

Vertical scanner setting

# PIA-Pro Image Analysis Software

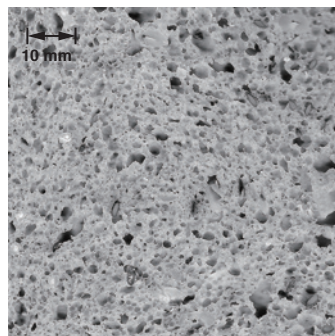
The PIA-Pro Image Analysis Software is provided with the SC-2micro for instrument control, particle image capturing, image analysis, and size/shape distribution calculations. All procedures from measurement to report generation can be performed in a short time with easy operation.

## Standard Operation Procedure for reproducibility

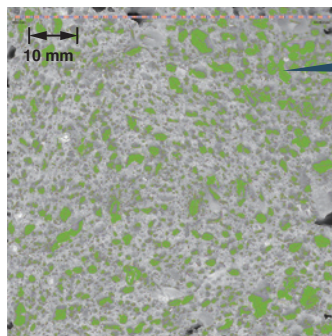
The standard operation procedure (SOP), which specifies a set of measurement parameters and a report format, can be registered in advance. Highly reproducible results can be obtained even if operators are different.

## Advanced shape analysis

Size and shape of each hole in the scanned images are quantified by using various size and shape parameters. The size parameters such as "Area Diameter", "Inner Diameter" and "Mean Diameter" quantify the size. The shape parameters such as "Elongation", "Circularity" and "Solidity" quantify the shape. Parameters for needle-shaped and fiber particles are also available.



Scanned image of bread



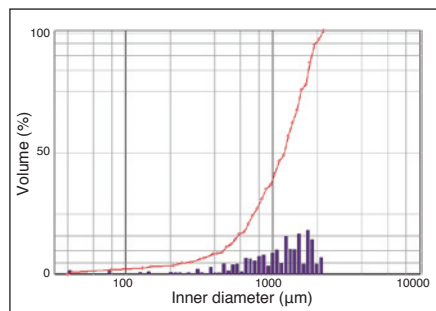
Analysis window of bread



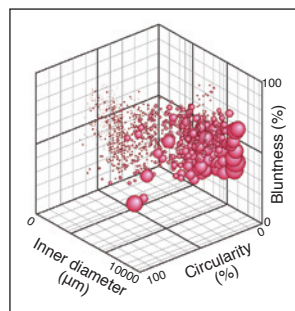
When a hole is specified in the image analysis window by a cursor, the magnified image of the hole and all calculation results of size and shape parameters are displayed

## Various graph formats

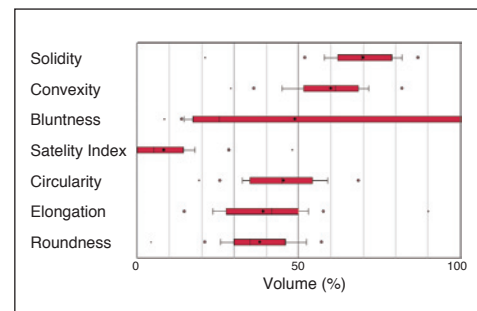
Size distributions and shape distributions using any parameter are visually represented in various graph formats. Histograms, a cumulative curve, box plots, and two- or three-dimensional scatter plots are available for easy characterization of size and shape distribution. An overlay function for several measurement results is also available.



Histogram and cumulative curve



3D Scatter plot



Box plots

## Report generation function

A variety of tools within the software can be accessed to provide user customized reports.

## Data storage in a CSV format

Data can be stored in a CSV format for further calculations or output using a different program (Excel, etc.).

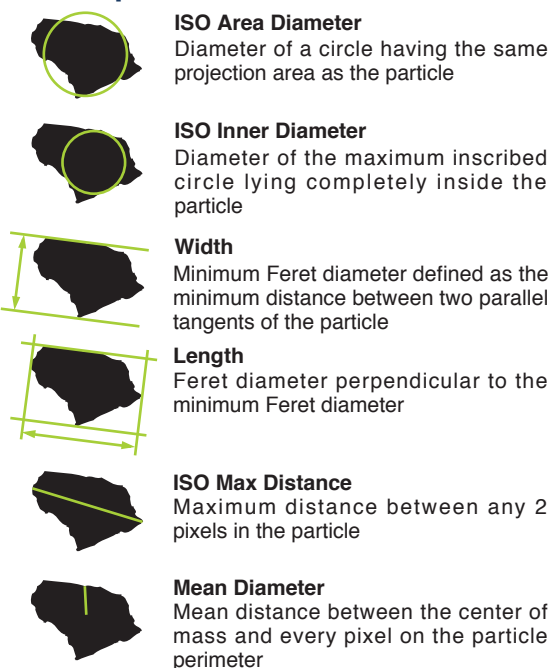
# SC-2micro Scanning Image Analyzer

## Specifications

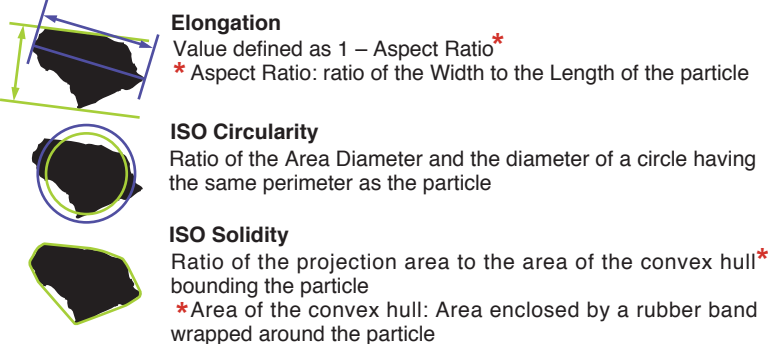
Sample size range	10 μm ~ 50 mm
Scan plate size	242 x 320 mm
Sensor	CCD linear sensor
Line resolution	10,000 pixels
Resolution	600 dpi (42.33 μm/pixel) ~ 6400 dpi (3.97 μm/pixel)
Image size	210 x 297 mm (600 dpi) ~ 39.7 x 39.7 mm (6400 dpi)
Dimension	61 (Length) x 53 (Width) x 14.4 (Height) cm
Weight	16.5 kg
Power supply	100 ~ 220 V (50/60 Hz)

## Parameters to quantify particle size and shape

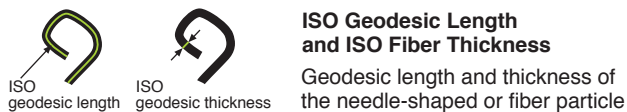
### ● Size parameters



### ● Shape parameters



### ● Parameters for needle-shaped or fiber particles



### ● Parameters for evaluations of particle surfaces



● Specifications are subject to change without notice.



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