

Volscan Profiler



The VolScan Profiler is a benchtop laser-based scanner that measures the volume of bread and bakery products up to maximum dimensions of 600mm length and 380mm diameter.

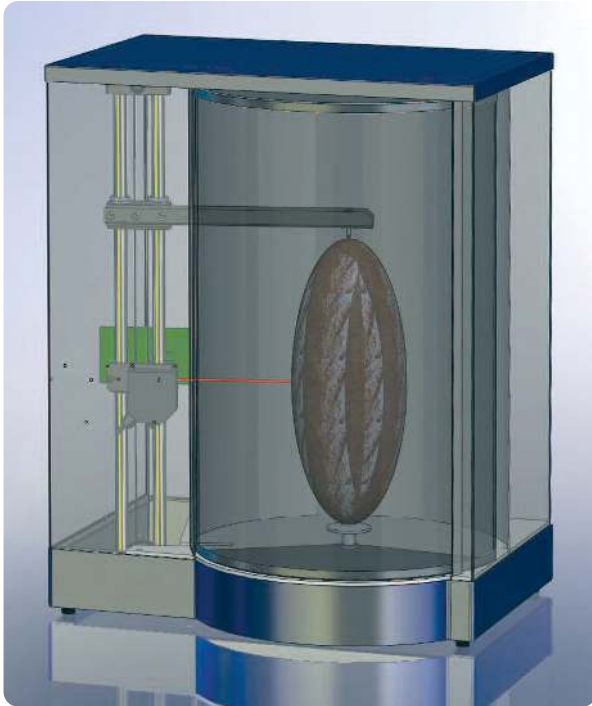
Rather than assessing the volume alone as with seed displacement methods, the VolScan Profiler has the ability to automatically calculate several related parameters. It enables the rapid 3-dimensional digitisation of products, the results of which may be processed mathematically to yield detailed dimensional information for immediate use or future retrieval.

The VolScan Profiler uses a non-contact measurement method and therefore offers considerable advantages over contact and displacement alternatives, particularly for the 3-dimensional assessment of soft products.

THE VOLSCAN PROFILER

- *Rapid and accurate volume measurement*
- *Easy location of sample*
- *Variable scanning speed*
- *Weighs sample automatically*
- *Determines length, width, height, specific volume and volume yield per 100g flour*
- *Automatic calibration*
- *Spreadsheet archiving for easy access and product comparison*
- *2D and 3D sample representations*

SPECIFICATIONS



TECHNICAL SUMMARY*

Sample Dimensions

Max diameter:	380mm
Max height:	600mm
Max sample weight:	1.5kg

Movement and Measurement

Data acquisition:	400 points per revolution
Vertical step size options:	0.5mm – 26mm
Measurement resolution:	$\pm 1\text{cm}^3$
Sample weight accuracy:	$\pm 5\text{g}$

Mechanical

Automatic calibration
Automatic weighing

Electrical

Operating temperature:	10° – 40°C
Temperature measurement of chamber and product surface	(optional)
Universal mains input voltage	
Connectivity:	USB, RS485 & RS232



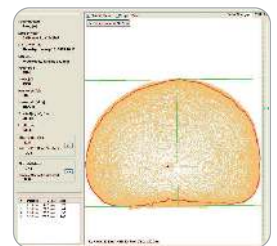
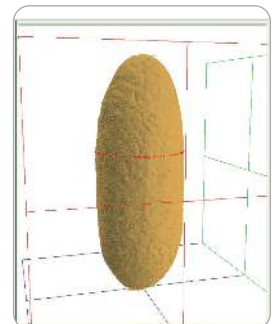
DATA ANALYSIS, MANIPULATION AND VIEWING OPTIONS

- Rapid assessment of: Bread volume
- Specific volume
- Length
- Maximum width
- Maximum height
- Volume yield per 100g flour

- Spreadsheet archiving
- 2D and 3D representations (illustrated right)
- Additional manual measurements for 2D scans
- 3D scans rotatable in all planes
- Optional calibrated volume block

PC Requirements

- Minimum 1.6GHz Pentium processor
- Minimum 512 Mb memory
- Minimum 100 Mb free hard disk space
- OpenGL compatible graphics card
- Supported operating systems: 98, ME, 2000, XP, Vista



APPLICATION AREAS

- Research and Development
- Quality Assurance
- Process Control
- Academic Research

for

- Millers
- Bakeries
- Food Ingredient Suppliers
- Food Research Institutes
- Universities

*Stable Micro Systems Ltd reserves the right to alter the technical specification at any point without prior notification.

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