

ORION - Now with moisture measurement

A COMPREHENSIVE TEST STATION FOR ORAL POUCHES

DESCRIPTION

The Cerulean Orion test station is designed in close collaboration with leading producers to meet the specific needs for testing modern oral pouches. The Orion test station is an integrated testing solution for traditional snus, white tobacco and nicotine pods. It can handle oral pouches of all commercially available size formats – mini, large, maxi and slim.

The instrument measures pouch weight, moisture, length, width, end seam width, longitudinal seam offset and pouch tensile strength. It takes minutes to configure and perform the test. The instrument is equipped with an intuitive user interface that provides key information, graphical representation of process capability and stores the data in a network accessible SQL database. A powerful vision system takes images of both sides of every pouch that are used to measure the pouch dimensions, seams width and longitudinal seam position..

Cerulean developed a unique system for measuring the moisture content of the pouches based on resistivity and capacitance which is then correlated to the oven drying to produce a calibration curve. The measurements are made in seconds, which compares with 15 minute or more for an oven system.

The Orion test station saves operator time and improves quality through independent, fast, consistent and repeatable testing of pouches. With a real time visualisation of test results and configurable report generation the Cerulean test station guarantee that the production process is always in control. Connectivity to MES and LIMS systems enables a plant overview of pouch quality to be maintained.

BENEFITS

- Moisture measurement
- 48 pouch capacity
- PC controlled for ultimate usability
- Intuitive graphical user-interface
- Flexible configurable system
- Multiple measurement modules
- SPC charts and alarm limits
- Powerful vision system
- In-built diagnostic
- Configurable reports

APPLICATIONS

- Oral pouches manufacturing QC/QA
- Laboratory QA
- Statistical process control

TECHNICAL SPECIFICATIONS

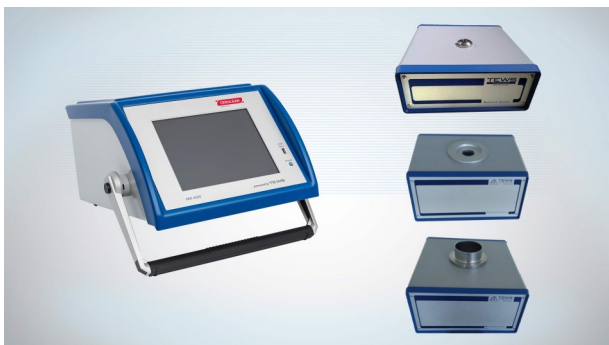
Electrical: (Voltage / Frequency / Power)	90 - 250 V @ 50 / 60 Hz / 300 - 500 VA
Pneumatic: (Pressure / Supply)	5 - 6 Bar @ 20 l/min
Operating Conditions: (Temp / Humidity)	15 - 30°C @ 40 - 70% RH non-condensing
Dimensions:	W: 690 mm excluding monitor / 1220 mm including monitor H x D / Weight: 1870 mm x 880 mm / 197 kg

EQUIPMENT SPECIFICATIONS

Measurement	Unit	Range	Resolution	Accuracy
Individual Weight	gram	0.2 - 5.0	0.001	± 0.002
Moisture	%	10 - 60 %	1.00	±1.00 %
Pouch Length	mm	20 - 40	0.01	± 0.1
Pouch Width	mm	10 - 20	0.01	± 0.1
Transverse Seam Width	mm	1 - 6	0.01	± 0.1
Longitudinal seam Overlap Width	mm	1 - 6	0.01	± 0.1
Pouch Tensile Strength	N/m ²	1 - 30	0.01	± 0.1

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AS600XR - air sampler



CONTACT YOUR REGIONAL SALES MANAGER FOR MORE INFORMATION

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