

# WaveCork

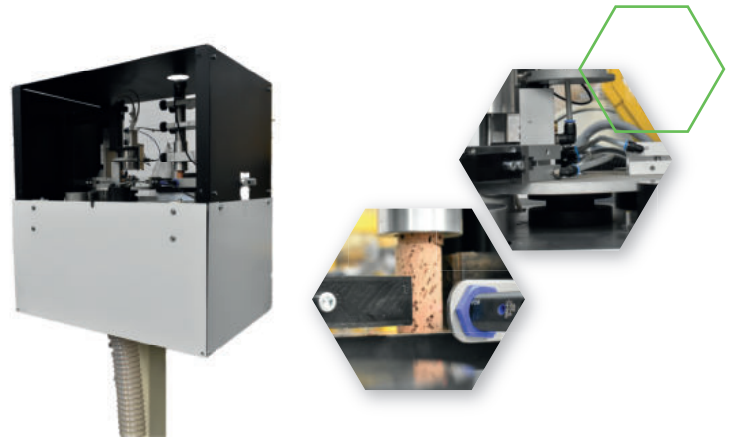
## Microwave Based Cork Stoppers' Humidity Measurement System

 TECHNICAL DATASHEET



Equipment for determining accurately, without contact and non-destructively the levels of moisture present in cork stoppers.

- Quantification of whole body moisture inside the cork stopper;
- Microwave based measurement technology;
- Measured stoppers are not damaged, allowing their reuse;
- Robust and reliable measurement for moisture up to 10%. Correlation coefficient with reference method of 0.94;
- Adaptability to class, size and type of stoppers being measured;
- Measurement made within seconds;
- Built-in interface for control of equipment, test parameters and results.



### Technical specifications:

- **Maximum cork stopper height:** 60mm
- **Maximum diameter of cork stopper:** 50 mm
- **Measurement time:** about 4 seconds
- **Measuring range:** up to 10% (0 - 10%)
- **Resolution:** 0,1%



In its **laboratory version**, the system is small in size and the cork stoppers are manually inserted into the cavity.



In its version for **inline intergration**, the system is larger, automated and developed in the industry paradigm 4.0 with MQTT (IIOT) communication for integration with other subsystems of the production system. Specifying acceptable moisture limits allows the separation of cork stoppers that don't meet the requirements.

### Software / Interface:

- Equipment control and monitoring;
- Collection of values and statistical calculations;
- Graphical display of results;
- Calibration mode allowing you to reprogram correlation curves;
- Ability to generate a summary report in multiple languages;
- Database for storage and consultation of tests already performed;
- Export to Microsoft Excel;
- Software available in portuguese and english, compatible with Microsoft Windows 10 and earlier operation systems.