ariVolume

MEASURING BOTTLE CAPACITY AT THE HOT END

ariVolume aims to provide measuring bottle **capacity** at the **HOT** and **COLD** end.

The equipment is the result of changing the current measurement concept based on water filling, for another **concept** which is absolutely **NEW** and based on **fluid dynamics.**

FAST. It measures a **cold** bottle **in 15-20´´.** It measures a newly manufactured bottle **at the hot end in 3-6 minutes.** (Depending on the amount of glass).

PRECISE. We manage an error of 0.1%. 1cc in a 1000 cc bottle.

NON DESTRUCTIVE TESTING. Do not use water or any other odd element, this allows not to discard the bottle.

TREND. TRACEABILITY. Ideal to have **real-time** information of capacity value and deviation **by mould.**

APPLICATIONS

- **Measurement of the capacity of any container.** Bottle, jar, can, etc.

- **Any size.**

- **ariVolume** is based in the measurement of **volume** of **any solid.** This is especially useful in solid and **irregular** containers.

ariVolume

OPERATION

ariVolume measures the bottle capacity, once this has reached the measurement temperature, rapidly in 20´´.

Process:

1º.- The bottle is placed in the equipment and, if it is considered appropriate, identifies the mould in HMI.

2º.- The machine checks the bottle temperature and if it is hot starts the cooling system until the bottle reaches the measurement temperature (3-5 minutes depending on the amount of glass).

3º Measures the bottle capacity in 20´´.

4º.- Shows the result in the display.

Except placing / removing the bottle, the entire process is done automatically without requiring an operator.

ADVANTAGES

- Bottle capacity measurement in HOT, IMPOSSIBLE to be measured with old traditional techniques.

- FAST. The bottle capacity is determined, once the appropriate temperature is reached, in 20".

- PRECISE. We manage an error of 0.1%. 1cc in a 1000 cc bottle.

- NON DESTRUCTIVE TESTING. Do not use water or any other odd element, this allows not to discard the bottle.

- TRACEABILITY. Due to data measurements historic we know its evolution and its lifetime.

- EASY TO CARRY. Portable equipment.

AUTOMATION

Possibility of automate the loading/unloading of hot bottles to the machine robotically. Ensuring traceability by mould. Managing the monitoring of trends by mould.

Likewise, exists the possibility of integrating ariVolume in the cold inspection line. Automate the load/unload of bottles. Communicate the machine with the existing mould reader and guarantee traceability by mould.

All turnkey.