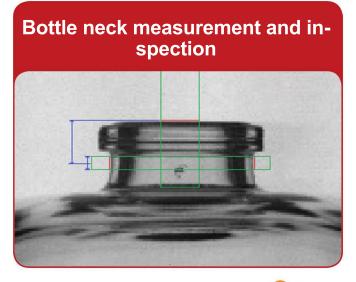


# **METRUM**

# Inspection machine for dimensional feature measurement on glass bottles.

Metrum is an independent inspection machine directly integrated in the production line and performs a 100% analysis of the production, performing dedicated dimensional checks on each single bottle.

Thanks to a sophisticated set of high-precision cameras, it reliably measures the through-hole of the bottle ant the overall height of the bottle as well.





### Drive-through of the bottles with touchless inspection.

The bottles are acquired by high-speed cameras while driving through the module, standing on the conveyor belt.

The inspection is carried out without any need to touch the bottles.

The results of the inspection and measurement procedures can be easily and comfortably evaluated on the two touchscreens mounted on the main frame of the machine.



## **METRUM**

### High-speed high precision cameras for a reliable inspection and feature measurement

The inspection machine is equipped with eight high-speed and high-precision cameras able to acquire the moving bottle, flacon or jar con the conveyor belt.

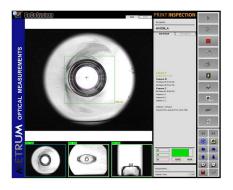
An adapted and optimized light source configuration warranties a reliable image acquisition.

All operations can be performed by the user by the two touch screens during the running production.

The easy to use and smart software HMI permits a fast and guided set up of the machine and of the inspection jobs.







### All inspection and measurement results at one glimpse

A dedicated camera box with 6 high-resolution cameras performs the image acquisition of the bottle thread looking at the rice-corn, The it is missing or the measured dimention is out of tolerance, the bottle or flacon is automatically rejected from the production line thanks to the automatic integrated rejection device.

#### **TECHNICAL DATA**

Inspection	Inspection of the through-hole	Bottle height measurement	Neck proportion inspection	Rice-Corn detection and inspection
Product	Glass flacons/bottles	Glass flacons	Glass flacons/bottles	Glass flacons
Camera	2560x2048 Px BW	2560x2048 Px BW	2560x2048 Px BW	6 x 2560x2048 Px BW
Field of view	40x30mm	130x100mm	40x30mm	30x10mm
Speed	150p/min	150p/min	150p/min	150p/min
Resolution	0,02x0,02mm/px	0,05x0m05mm/px	0,02x0,02mm/px	0,03x0m03mm/px
Repeatability	+- 0,01mm	+- 0,02mm	+- 0,01mm	+- 0,03mm

Technical data and system specifications refer to the state at the time of printing. We reserve the right to modify them in the interest of a continuous program of further development.

