

## PREFORM INSPECTION

**QP700** 

**VISION SYSTEM FOR PREFORM INSPECTION** 



### **QP700 VISION - TECHNOLOGY**

Theory of Operation

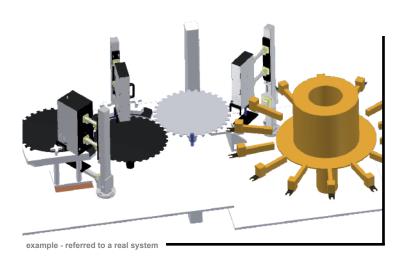
The FT System QP700 Vision System is designed to inspect plastic preforms for defects prior to blow moulding.

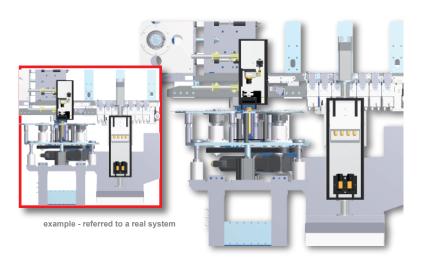
The FT System QP700 is a modular inspection system.

The available modules include the neck finish inspection, the ring inspection, the bottom and inner walls inspection and the external walls inspection.

Each module, installed in a specific area of the blow moulder or in a carousel located upstream the blow moulder entrance.

The system combines a high speed camera with microprocessor and industrial optics with an analog illumination system to provide uniform lighting of all surfaces to be inspected.





#### The system is composed of several indipendet modules which can be positioned where it is easier to inspect the preform inside the blower machine



External Wall - Real Acquisition



**External Wall Inspection Module** 



**Neck Ring Inspection Module** 







Inspection Module



**Bottle Finish Inspection Module** 



AROL group

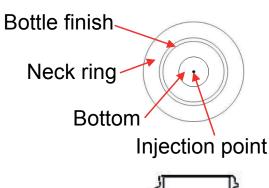


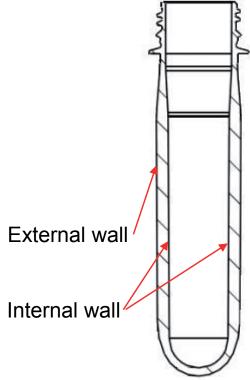
### PREFORM INSPECTION

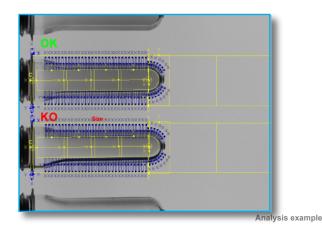
### **QP700**

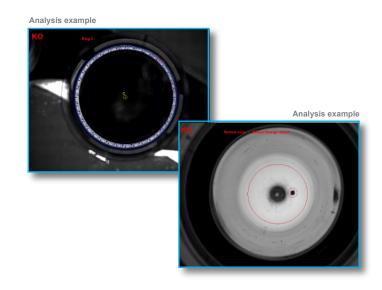












### **INTERNAL WALL Inspection Module**

- Pin holes
- Inclusions
- Bubbles
- Black spots
- Side wall deformations

# BOTTOM AND INTERNAL WALLS Inspection Module

- Pin holes
- Inclusions
- Bubbles
- Black spots
- Side wall deformations

#### **NECK RING Inspection Module**

- Circumference defects
- Blemishes
- Burrs

### **RING Inspection Module**

- Contamination on the surface
- Flashes
- Dimensional defects including ovalization

