

MULTICAP - CONDORCAP

QUALITY INSPECTION MACHINE FOR PLASTIC AND ALUMINIUM CLOSURES



MULTICAP/CONDORCAP is an Artificial Vision System for the inspection of aluminium and plastic closures to detect the typical defects of this kind of productions. One camera for the inspection of the Top-printing (public side) and a special unit with six cameras for the inspection of the external sidewall assure 100% inspection control of the caps.

However, the modularity of the system allows to install fewer modules, depending on the customer requirements.

TECHNICAL SPECIFICATIONS

- Diameters size: from 25 to 35 mm.
- Cap lengths: from 30 to 60 mm.
- Max Machine speed: up to 500 ppm.

Printing Inspection (public side or logo inspection)

Public side inspection: the system uses a high-speed digital colour camera in order to check, in addition to the logo centring, also macro defects on printing and coarse colour errors. The lighting system uses high intensity white LEDs.

With this camera it's possible to detect defects as:

- Colour variations;
- Logo centring;
- Dirty;
- Scratches;
- Macro defects on print logo
- Mixed decoration



Sidewall inspection

The inspection of the sidewall is performed with a six-colour cameras unit. The cameras, placed a 60° each other, observe all the lateral surface of the cap. The lighting system is a high intensity LEDs ring-light, designed to illuminate with high uniformity the external lateral surface of the closures. An additional light beam in the inside allows inspecting proper making of the closure, as for example the cutting. With this dedicated unit, it is possible to detect defects as:

- Colour variations
- Dirty
- Scratch
- Incomplete Decoration - Decoration not fully applied
- Missing Impression – Impression not to print specification
- Incomplete Shell - Shell not formed correctly
- Macro defects on print logo
- Print defects (i.e. spot)
- Mixed deco.