SPECTRO/M

PRINT INSPECTION ON OVAL AND FLAT OBJECTS

SPECTRO/M is equipped with one or more matrix cameras and it is designed to inspect the print on different kind of objects. Bottles, containers, caps, sticks, jars and many other plastic products are controlled with the best accuracy.

BENEFITS

SPECTRO/M guarantees a powerful combination of print quality and waste reduction. Objectivity and accuracy of the control improve your print quality and it ensures a production without printing defects. On line integration allows waste reduction and real time printing process optimization. SPECTRO is able to prevent widespread failure and averts large quantities of waste. The benefit results in cost reduction and improved process efficiency that drives up profits and company reputation.

QUALITY IS EASY

SPECTRO/M is easy to be integrated. It can be installed into any printing production line. Light and camera box can be designed to satisfy any integration need. SPECTRO/M is easy to use: the setup of a new job can be done in less than one minute.

DIFFERENT CONFIGURATIONS FOR DIFFERENT NEEDS

The resolution and the accuracy of the control depend on the camera model and on the camera field of view. Three different standard configurations are available but it is possible to customize the camera integration depending on the customer needs.

DeCoSystem

TECHNICAL FEATURES

SPECTRO/M has a very intuitive operator interface with a fast setup and a really powerful defect detection software. Standard features:

- **CONFIGURATIONS** up to four cameras
- **LED LIGHTING SYSTEM** for a diffuse and uniform illumination
- **TOUCH SCREEN INTERFACE**
- **EASY TO LEARN AND EASY TO USE GUI INTERFACE**
- **FAST AND AUTOMATIC SET UP**
  new job can be started in a minute
- **POSSIBILITY TO DEFINE MULTIPLE INSPECTION AREAS**
  with different control tolerances
- **GREAT RELIABILITY IN DEFECT DETECTION**
- **FULL REPORT AND AUTOMATIC STORING**
  of all production process data
- **DIFFERENT LOGIN LEVELS PERMISSION**
- **QUICK ZOOM FUNCTION**
- **OPERATING IN MS-WINDOWS OS**

TECHNICAL DATA

	SPECTRO M-1200	SPECTRO M-1600	SPECTRO M-2000
Print	Offset, silk-screen, pad-printing	Offset, silk-screen, pad-printing	Offset, silk-screen, pad-printing
Products	Oval containers and bottles with flat surface, caps (top)	Oval containers and bottles with flat surface	Oval containers and bottles with flat surface
Field of view	Up to 100 mm	Up to 150 mm	Up to 200 mm
Camera Resolution	Colour and graylevel 1280x1024 pixel	Colour and graylevel 1600x1200 pixel	Colour and graylevel 2048x2048 pixel
Camera Speed	30 frame/s	20 frame/s	25 frame/s
Number of cameras	Up to 4	Up to 4	Up to 2
Resolution	0,08x0,08 mm	0,10x0,10 mm	0,10x0,11 mm
Max production speed	900 pcs/min	500 pcs/min	120 pcs/min
Typical defects	Lack or excess of print, blurs, smears, dirt, scratches, colour variation, mis-registration	Lack or excess of print, blurs, smears, dirt, scratches, colour variation, mis-registration	Lack or excess of print, blurs, smears, dirt, scratches, reflected-rainbows, mis-registration
Min defect size	Ø 0,35 mm	Ø 0,40 mm	Ø 0,40 mm

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.