



SPECTRO

PRINT INSPECTION ON CYLINDRICAL OBJECTS

Spectro is equipped with a line-scan camera and it is designed and optimized to inspect the print on cylindrical objects. Tubes, bottles, containers, caps, sticks, jars and many other plastic products are controlled with the best accuracy

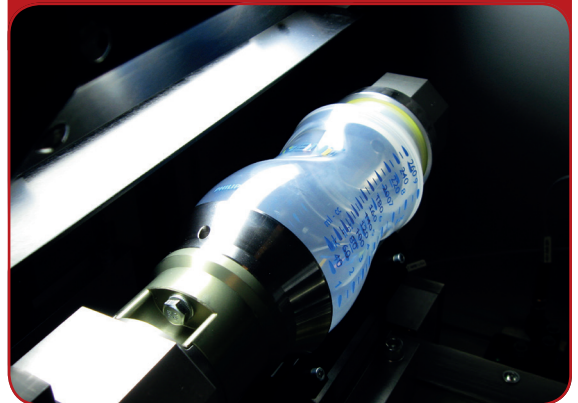
BENEFITS

Spectro guarantees a powerful combination of print quality and waste reduction. Objectivity, repeatability and high accuracy of the control improve your print quality and ensure a production without printing defects. On-line integration allows waste reduction and 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 can easily be installed into all printing machines. Our highly qualified engineers are able to design the best solution that fits any integration needs. Spectro is easy to use: set up a new job in less than a minute and go!

Quality control for printing machines on CYLINDRICAL OBJECTS



DIFFERENT CONFIGURATIONS FOR DIFFERENT NEEDS

The accuracy of the control can easily meet the customer quality requirements. Three different standard configurations are available but it is possible to customize the system integration depending on customer needs or special requirements.

TECHNICAL FEATURES

SPECTRO has a very intuitive operator interface with a fast setup and a really powerful defect detection software.

Standard features:

- Multiple camera configurations up to four
- LED lighting system for a diffused 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
- Easily define different control areas with different tolerances
- Smart, extremely powerful and versatile software package
- HIGH ERROR-DETECTION reliability and repeatability
- Full report and automatic storing of all production process data
- Different Login levels
- Quick zoom function
- Operating in MS-Windows OS
- Easily integrate the system into the corporate network for production and data sharing
- Optional database integration for production data management
- smart remote support



TECHNICAL DATA

	SPECTRO L-150	SPECTRO L-250	SPECTRO L-CVI
Print	Offset, silk-screen, ink-jet	Offset, silk-screen, ink-jet	Hot stamping, silk-screen (one colour)
Products	Caps, sticks, jars, phials and small bottles	Tubes, cartridges, bottles and containers	Caps, sticks, jars, mascaras, tubes and bottles
Max field of view	150 mm	250 mm	150 mm
Diameter	10-60 mm	10-60 mm	10-60 mm
Camera Resolution	Colour 2048 pixel	Colour 4096 pixel	Graylevels 2048 pixel
Camera Speed	39 KHz	18 KHz	18 KHz
Number of cameras	Up to 2	Up to 2	Up to 4
Resolution	0,07x0,07 mm	0,06x0,06 mm	0,07x0,07 mm
Max production speed	500 pcs/min	250 pcs/min	250 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, reflection-rainbows, misregistration
Min defect size	Ø 0,25 mm	Ø 0,20 mm	Ø 0,25 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.