



INSPECTOR

DIFFERENT APPLICATION FOR SURFACE INSPECTION

Inspector is a complete solution for the inspection of surfaces and webs moving continuously as they are being produced or converted.

Inspector guarantees a 100% surface inspection on different kind of film, web widths, production speeds and optical characteristics of the product.

The system can be successfully used to inspect metallized film, any kind of plastic film, non-wovens, metal, paper and other laminated surface.

QUALITY IS EASY

Thank to its highly modular configuration Inspector can be easily integrated into any production line. It is possible to configure the web width and the appropriate illumination for each different applications.

The film is controlled thanks to of a series of linear cameras placed orthogonality to the direction of the web movement. The cameras can acquire a high resolution images even with very wide web width.

BENEFITS

Inspector is used either to detect and classify defects or to improve the process and increase the productivity. The integration directly into the metallizing machine or coating machine guarantees an immediate alarm in case of problems and helps in the waste

Surface inspection for FILMS AND RAW MATERIAL



reduction. When a defect is found, the operator is alerted and the type of defect is logged in order to provide a detailed report for each roll.

Inspector ensure high levels of quality and offer the best solution during production, value-added processes, and converting operations where maximizing yield, productivity, and quality.

Defects information and images stored in our database are used in many ways. Reports, charts, and graphs can be tailored for every need. Defect information can be used to grade, sort, or reject material.

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TECHNICAL FEATURES

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

Standard features are:

- Modular camera configurations (up to 16 cameras).
- LED lighting system with three different light sources
- Touch screen interface
- Easy to learn and easy to use GUI interface
- Fast and automatic set up (new job can be started in few seconds)
- Three different display modes: defect detection, defect history or inspection mode.
- Transversal direction and machine direction real time display
- Possibility to analyze the defect history during the inspection mode.
- Easily define different lanes or roll cutting
- Great reliability in defect detection
- Defect density based on user-specified criteria
- Grading of rolls based on defect density
- Alarm on repeating defects.
- Full report and automatic storing of all production process data
- Different Login levels

APPLICATIONS

- **Plastic film and sheets**
Integration into blown film and flat film extruders, coating machines or into rewinding slitters.
- **Metallized film**
Integration into metallizing machines or rewinding slitters.
- **Paper**
Installation in paper machines, coating machines and in paper processing.
- **Metal**
Installation into stretching lines, rolling lines and coating lines for metals.
- **Nonwovens**
Installation on nonwovens lines.



TECHNICAL DATA

	EXTRUDER	SLITTER	METALLIZING OR METAL LINE	OTHER
Maximum web width	10.500mm	10.500mm	3.700mm	5.000mm
Maximum speed	600m/min	1000m/min	1200m/min	500m/min
Material	BOPP, CPP, PVC, PP, PE, other	Plastic film (transparent and opaque), metallized film, paper, other	Metallized film, metal foil, other	Non-woven, paper, other
Defects	Gels, black specks, holes, bubbles, intrusion, dirt, oil or condense drop	Pinholes, scratches, gels, black specks, holes, bubbles, intrusion, dirt, oil or condense drop	Pinholes, trans way lines, lack of metallization, scratches, wrinkles	Water marks, holes, dirt, oil drop spots, thick/thin areas, intrusions
Camera resolution	Up to 4096 pixel	Up to 4096 pixel	Up to 4096 pixel	Up to 4096 pixel
Camera frequency	Up to 80Khz	Up to 80Khz	Up to 80Khz	Up to 80Khz
Max. number of camera	16	16	16	16
Light	Direct light and/or backlight	Direct light and/or backlight	Backlight	Direct light or diffuse light and/or backlight
Typical web width	5.000mm	3.500mm	2.500mm	2.000mm
Typical speed	600m/min	600m/min	900m/min	300m/min
Typical number of camera	16-2048pixel	12-2048 pixel	6-2048 pixel	2-4096 pixel
Resolution of typical application	0.15mmx0.15mm	0.15mmx0.15mm	0.2mmx0.2mm	0,25mmx0,25mm
Min. defect size of typical application	Ø 0,30mm ⁽¹⁾	Ø 0,30mm ⁽¹⁾	Ø 0,15mm ⁽²⁾	Ø 0,5mm ⁽¹⁾

1. We consider a defect of 3 pixel dimension | 2. We consider a defect of half pixel dimension

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.