

Surface Defect Detection SI 3100BW For Bare Wire

Ensure your product is Defect Free

The Surface Inspector is the only tool that can capture, display and analyze every square millimeter of your Bare wire. It is the most thorough method of detecting surface flaws available. With Taymer's Surface Inspector, you can be sure the product going to your customers meets your high standards and is without surface defects.

Reduced Defects

The Surface Inspector provides the operator with a view of current surface images as well as the most recent surface defects with defect dimensions. This continuous stream of real time information – especially failure data - allows the operator to isolate the causes of surface imperfections. Identifying when and how a defect occurs allows your technical staff to reduce occurrences of surface defects and prevent customer complaints and rejects.

Quality Assurance

The Surface Inspector will capture images of your bare wire, save the images to disk and allow you to print them out to include in your quality reporting both internally and to your customers. The Surface Inspector's display also makes it easy for engineering and production supervisors to examine the defect without having to see the defect itself. Defect locations are recorded together with the image of the defect allowing your operators to find and eliminate defects before they reach your customers or fail in the field.



CONTACT US TODAY FOR MORE DETAILS

FEATURES

- Detects bulges, neckdowns, surface blemishes, scratches and other surface defects on wire
- Supports line speeds up to 800 meters per minute
- Two or three camera configurations available depending on coverage required and minimum defect requirement
- Alerts operator and production machinery if any defects are found
- Records any defects for QA records and operator verification
- Accurately measures and records wire diameter along 1 or 3 axes
- Saves length information for each defect to allow operators to easily locate the defects after detection
- Software analyzes full circumference and 100% of product length

Quality on the Line

**TAYMER**

SPECIFICATIONS

Maximum Line speed

800 meters per minute ■ 2,600 feet per minute
(Exact maximum speed will depend on specific application)

Minimum Detectable Defect Size

0.1mm and up 0.004"
(Depends on line speed and wire diameter)

Diameter Measurement Accuracy

±0.3mm Standard ■ ±0.05mm with precision diameter measurement option (Depends on wire diameter)

Wire Diameter Range

0.5mm – 10mm (Other diameters available upon request)
0.019"-0.39"

Camera Configuration

3 Camera - 100% coverage of all wire diameters (<10mm)

Pixels per square mm

~500 for small diameter wire

Type of defects detected

Neck downs ■ Bulges ■ Blemishes ■ Scratches ■ Etc.

Image processing

All images from all cameras are read, enhanced and analyzed, resulting in 100% product coverage at maximum line speed

Lighting

LED

Location

In-line

Power Supply

110 or 230V depending on choice

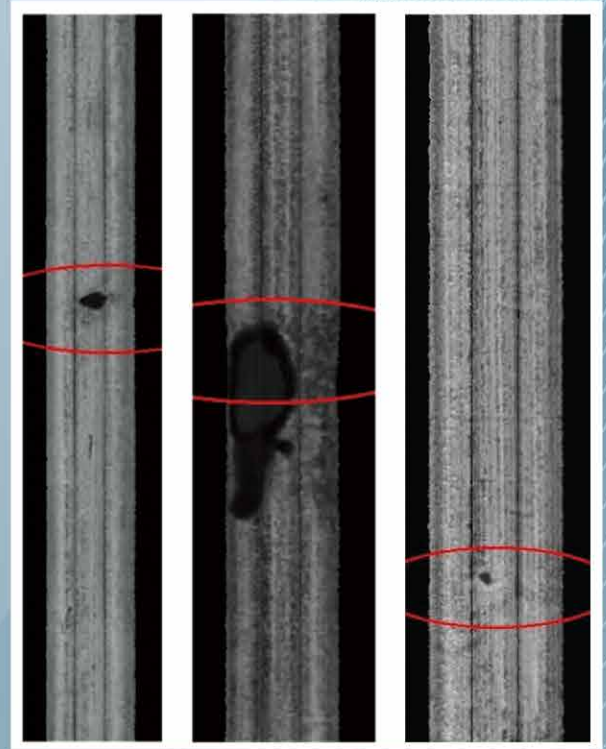
Dimensions

Without Stand 229mm X 559mm X 483mm – L X W X H
9" X 22" X 19" – L X W X H

With Stand 37" X 25" X 70" – L X W X H
940mm X 635MM x 1778mm – L X W X H
(Custom stands can be built)

Weight

100lbs ■ 45kg



Quality on the Line

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