

Wrap Defect Inspector

for **Wire and Cable Wraps**



➤ Ensure your product is Defect Free

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

➤ Reduced Defects

The Wrap Defect Inspector provides the operator with a view of current surface images as well as the most recent defects with defect dimensions. This continuous stream of real time information – especially failure data – allows the operator to isolate the causes of wrapping imperfections, surface scratches, mis- wraps, peeling, tearing or water soluble tape folds. 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 Wrap Defect Inspector will capture images of your printed cable, 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 Wrap Defect 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.

FEATURES

- Detects tape mis-wraps, surface scratches, tape tears, tape peeling and wrinkles
- Supports line speeds up to 400 meters per minute or 1,300 feet per minute
- 2, 3, & 4 camera configurations available depending on coverage required and min defect size requirement
- Alerts operator and production machinery if any defects are found
- Records any defects for QA records and operator verification
- Accurately measures and records product diameter along its axis
- Software analyzes full circumference and 100% of product length
- Saves length information for each defect to allow operators to easily locate the defects after detection
- Integrates with external PLC to provide defect and product measurement information
- Generates reports containing relevant product diameter, defect, and measurement information



SPECIFICATIONS

> Maximum Line Speed:

400 m/min | 1,300 ft/min

Higher speed may be available depending on application

> Minimum Detectable Defect Size:

0.3 mm; 1 mm; 5 mm

0.012"; 0.040"; 0.200"

(Depends on line speed and cable diameter)

> Cable Diameter Range:

0.5 – 2 mm; 2 – 50 mm; 50 mm and up

0.020 – 0.080"; 0.080 – 2.0"; 2.0" and up

(Depends on camera configuration)

> Camera Configuration:

4 Camera – 100% coverage of large cable diam.(>50mm)

3 Camera – 100% coverage of all cable diam.(<50mm)

2 Camera – Detects most defects (narrow cable OD range)

> Pixels/mm²:

~100 for large diameter cable jackets and tapes

~500 for small diameter cable jackets and tapes

Up to 100,000 for metal pipe, bar, and plate

> Types of Defects Detected:

Mis-wraps, surface scratches, tape tears, tape peeling, water soluble tape coverage, wrinkles

> Dimensions:

Without stand:

229 mm x 559 mm x 483 mm - L x W x H

9" x 22" x 19" - L x W x H

With stand:

940 mm x 635 mm x 1778 mm - L x W x H

37" x 25" x 70" - L x W x H

Custom stands can be built

> Location:

Before printer, on wires without print legends. Can optionally be installed after the printer and water trough

> Image Processing:

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

> Weight: 45 kg | 100 lbs.

> Lighting: LED

> Percent Overlap Between Images:

5% (depends on camera configuration)

> Power Supply: 110V or 230V, 50/60Hz

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