Lump and Neck-Down Detection

LN 2400 For Wire, Cable, Pipe and Tube

Images of Lump and Neck-Down Defects

The Lump and Neck-Down Inspector is the only tool that can provide images of your lumps and neck-downs on: cable jacket, pipe or tube. This is critical in assessing whether a measured diameter variation is in fact a defect and whether action must be taken. Your technical staff won't have to rewind miles of product to try to locate a defect. They can use Taymer's image viewing software to analyze and diagnose any detected defects.

Accurate, Multi Axis Diameter Measurement

The Lump and Neck-Down Inspector also provides you with very accurate, Multi-Axis diameter measurements. This diameter information can be integrated with other machinery in your line for complete automation of your line processes.

The Lump and Neck-Down Inspector's display also makes it easy for engineering and production supervisors to examine the outer surface of your product as it is being extruded.

Quality Assurance

The Lump and Neck-Down Inspector will capture images of your cable defects, save them to disk so you can print them out to include in your quality reporting both internally and to your customers. Defect locations are recorded together with the image of the defect allowing your operators to find and eliminate lumps and neck downs before they reach your customers or fail in the field.

With Taymer's Lump and Neck-Down Inspector, you can be sure the product going to your customers meets your high standards

CONTACT US TODAY FOR MORE DETAILS

FEATURES

- Detects, bulges, neck-downs, lumps, on cable jacket, metal tube, bare wires, etc.
- Diameter variations of 0.05 mm can be detected
- Supports line speeds up to 1000 meters per minute
- Two, three or four camera configuration depending on coverage required and minimum defect requirement
- Alerts operator and production machinery if any defects are found
- Saves length information for each defect to allow operators to easily locate the defects after detection
- System analyzes diameter for the full product length

Quality on the Line

TAYMER

SPECIFICATIONS

Maximum Line speed

1000 meters per minute ■ 3,200 feet per minute

Detectable diameter variation (+/-)

0.05 mm; 0.5 mm; 2 mm
0.002"; 0.020"; 0.079"
(Exact dimension depends on application and camera configuration)

Defect length along the cable

Under 1000 meters per minute, minimum defect length that can be detected is 0.1 mm

Cable Diameter Range

0.5 mm – 5 mm; 5 mm – 50 mm; 50 mm and up
0.02"-0.20"; 0.20" – 2.0"; 2.0" and up

Camera Configuration

2, 3 or 4 cameras based on cable outer diameter range

Pixels per mm

~10 for large diameter cable jackets
~30 for small diameter cable jackets
~100 for metal pipe, bar and plate

Type of defects detected

- Neck-downs
- Bulges
- Holes
- Lumps

Percent overlap between images

5% *(depends on camera configuration)*

Image processing

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

Lighting

LED or Halogen

Location

Before or after the printer and water trough

Power Supply

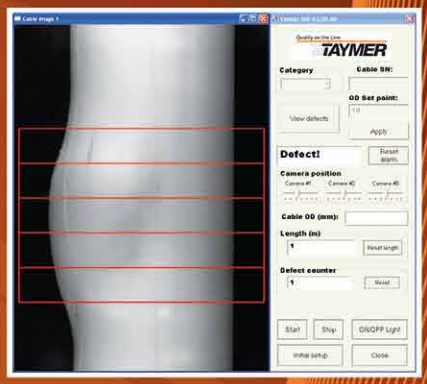
110 or 230V depending on choice

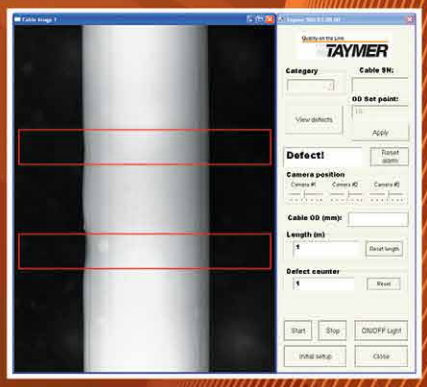
Dimensions

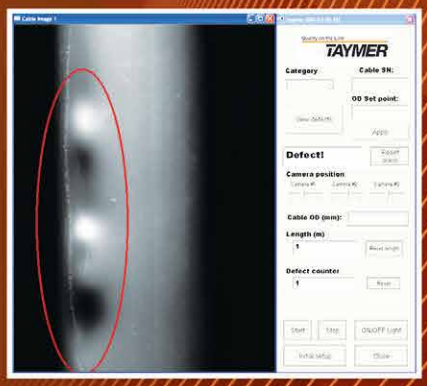
30" x 10" x 10" – L x W x H (without stand)
750 x 250 x 250mm – L X W X H
Custom stands can be built

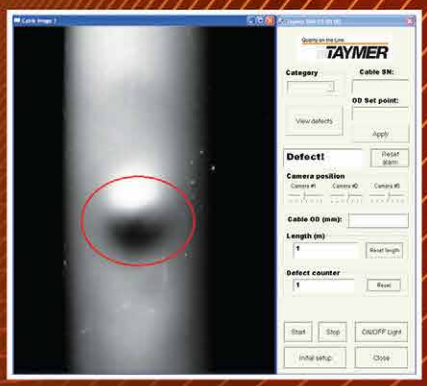
Weight

100lbs ■ 45kg









Quality on the Line

TAYMER

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