

### **Bobbins Quality Inspection**



All the detected parameters, in addition of being stored on the instrument PC, can be transmitted by a computer network (wireless or Ethernet cable) to the company management system and shared on a common DB for a complete traceability of the quality control performed and a consequent correct production management.

### **Technical Specifications**

Bobbin Analysis Time		
3 cameras	60 sec	
5 cameras	30 sec	
9 cameras	15 sec	
Other times available on request and based on used technologies		

Electrical characteristics	
Nominal tension	380 Vac
Max. power	1 kWatt
Connection	3Ph + PE
Frequency	50 / 60 Hz
IP	IP54
Communication port	Ethernet

Suitable for yarn finishing oil

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lensation)	<b>Mechanical Characteristics</b>	
	Dimensions L x H x P	650 x 1930 x 1800 mm
	Weight	390 kg

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working Conditions	
Temperatures	10/40 °C
Umidity	90% (no condensation)

Bobbins Specifications		
Tubes lenght	150 - 200 mm	
Tubes diameter	120 - 140 mm	
Bobbins diameter	180 - 440 mm	
Other measures available on request and based on used technologies		

#### SKILLS

- count of broken filaments on the entire vertical face of the bobbin: protruding at least 2 mm

Paint on metal parts

- check the presence / absence of tails
- measure of diameter
- create personalized lots
- create a database with results
- work autonomously synchronized with the quality control department h24 d365
- count crushed broken filaments < 2mm
- · discrimination between broken filaments and spiral effect
- check single cross yarn traverse







#### **INDUSTRIAL PC**

Main Characteristics		
Operating system	Microsoft	
Database	Microsoft SQL	
Display	15.6 inch wide LCD TFT 16:9 HD	
Touch-screen	$\checkmark$	
	Suitable for yarn finishing oil	
Wi-fi	$\checkmark$	
Ethernet	$\checkmark$	
USB	$\checkmark$	



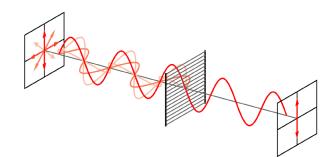
#### IN-LINE AUTOMATIC ROTATION SYSTEM

Main Characteristics	
Motor	Brushless precision angular positioner powered by a numerical control system
Motion transmission	A special roller moves the knurled pegs, that allow the rotation of the yarn bobbin.
Positioning	Pressure controlled tire + Tilting adaptation system for a precise transmission of the bobbin motion



#### INNOVATIVE LIGHTING SYSTEM AND CAMERA

The intersection between precise light angle and polarisation plans can discriminate very thin details, and these are the keys of our research.



## **Applications**







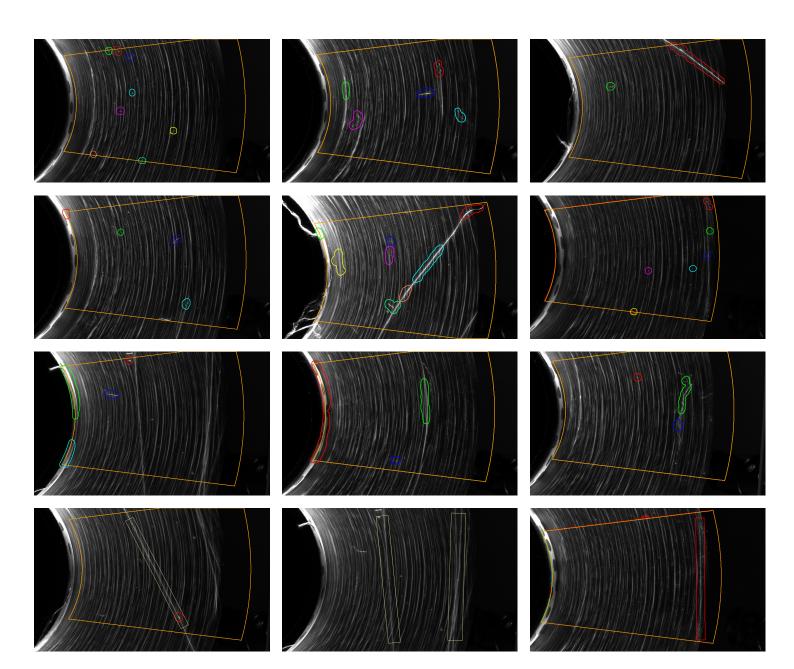






DEP\_DIG\_RAVISION\_V1

## Int Solutions



# THEMA SYSTEM



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