

MA SYSTEM

#### **Bobbins Quality Inspection**

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		

Working Conditions	
Temperatures	10/40 °C
Humidity	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		

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

Mechanical Characteristics		
Dimensions L x H x P	650 x 1930 x 1800 mm	
Weight	390 kg	
Paint on metal parts	Suitable for yarn finishing oil	

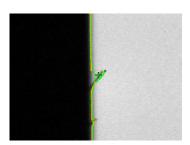
#### **SKILLS**

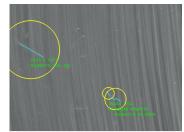
- count of broken filaments on the entire vertical face of the bobbin: protruding at least 2 mm
- check the presence / absence of tails
- measure of diameter
- · create personalized lots
- · create a database with results
- work autonomously synchronized with the quality control department h24 d365
- count crushed broken filaments < 2mm</li>
- · discrimination between broken filaments and spiral effect
- check single cross yarn traverse













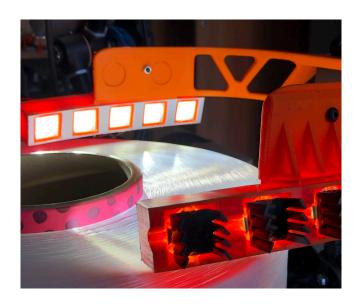
#### **INDUSTRIAL PC**

Main Characteristics		
Operating system	Microsoft	
Database	Microsoft SQL	
Display	15.6 inch wide LCD TFT 16:9 HD	
Touch-screen	<b>✓</b>	
	Suitable for yarn finishing oil	
Wi-fi	<b>✓</b>	
Ethernet	✓	
USB	✓	



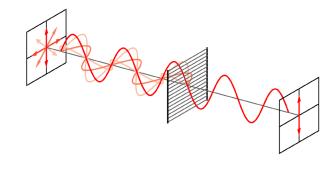
### IN-LINE AUTOMATIC ROTATION SYSTEM

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**

# RA VISION



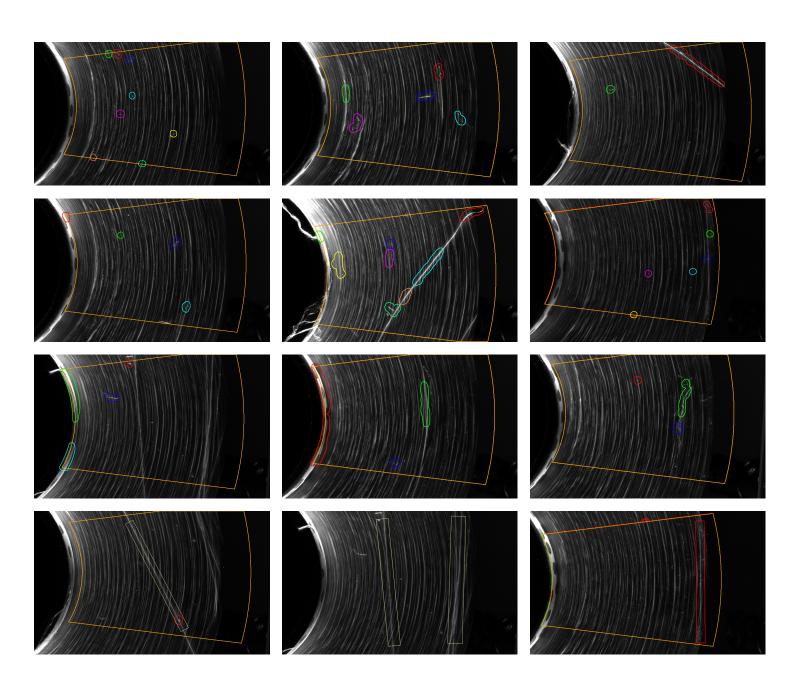
















Via G.Puccini, 2/4 - 46024 Moglia (MN) Italy - Tel. +39 0376 556400 C.F. e P.IVA (VAT): 02300850209 - SDI: 2LCMINU thema@themasystem.com thema2@pec.it



Made in Italy







