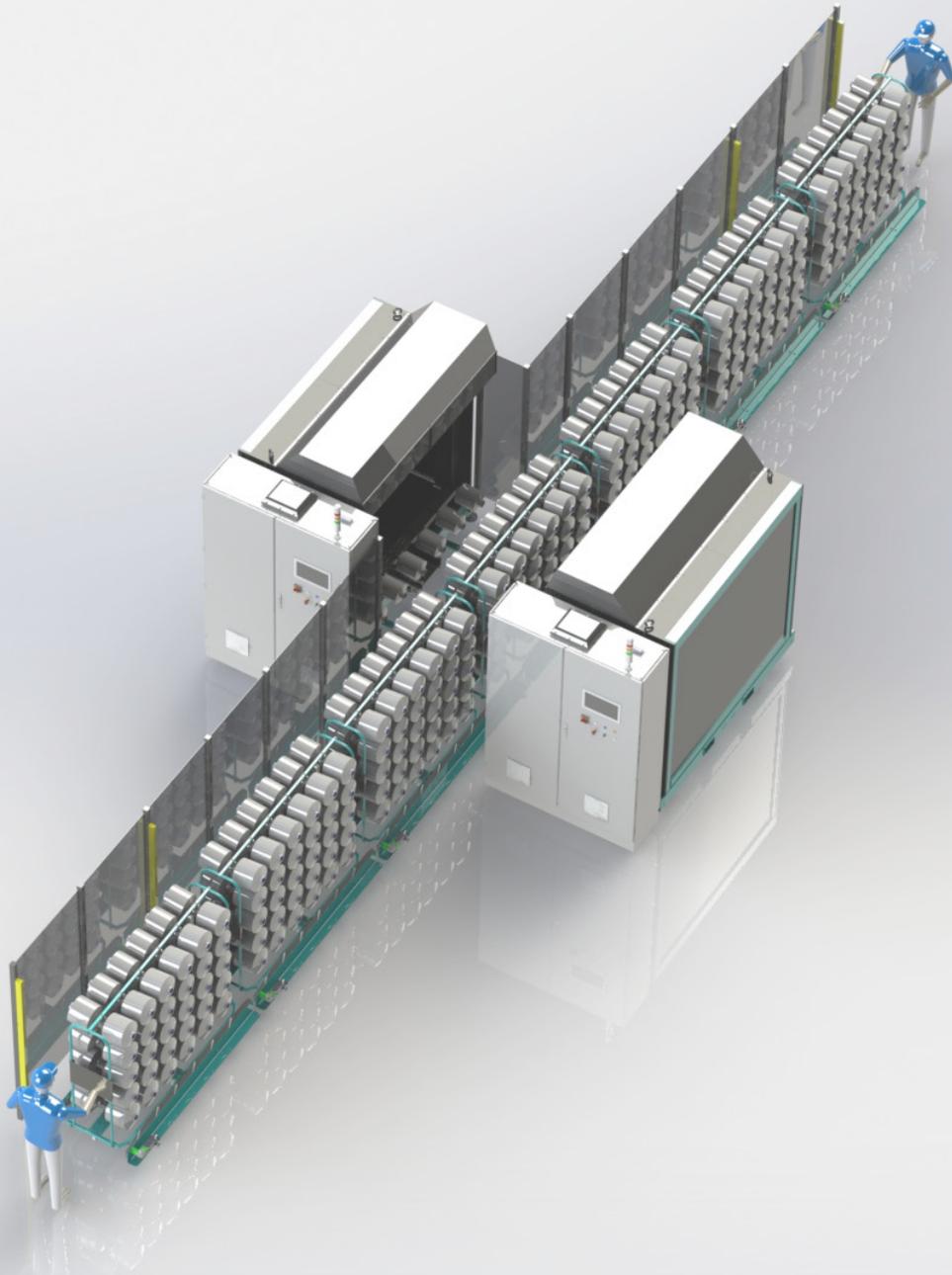


Total Automatic AI Based Bobbin Quality Control System



THEMA SYSTEM
w w w . t h e m a s y s t e m . c o m

TAQC-24

TAQC-24 is a **total automatic quality control instrument**, able to:

- check the weight, density and diameter of the bobbin
- check the color difference on the outer surface of the bobbin
- detect defects on the surface of the bobbin

The system is equippable with a custom made database able to perform statistical analysis and share results with the Customer database. All the images and data history is available for the Customer over time, depending on the storing capacity.

Thanks to the **artificial intelligence**, TAQC-24 is able to find morphological defects with a high level of repeatability. The use of AI allows to adapt the system to various bobbin typologies.

Specifications

Max theoretical production	600 bobbins / h
Max power	25 KW
Nominal tension *	380 VAC
Dimensions L x H x P	14750 x 2596 x 4650 mm
LDCS systems	6 + 6
ARA COLOR systems	3 + 3
RA VISION systems	3 + 3

* adaptable to Customer needs



RA VISION

Quality inspection on the outer surface of the bobbin, able to detect defects such as broken filaments, traverse, stains and many more, based on the Customer needs.



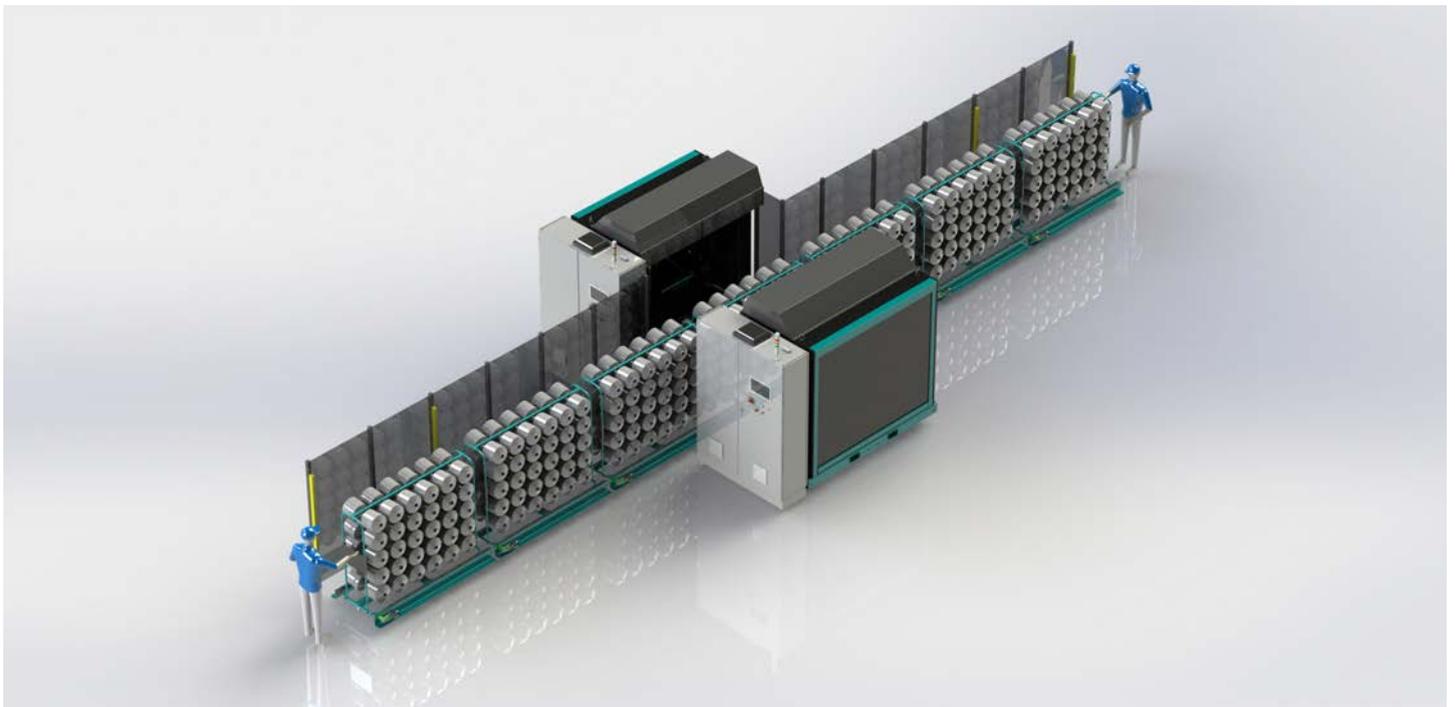
ARA COLOR

Relative color control system to identify possible difference of color tones between yarn bobbins of the same production lot.



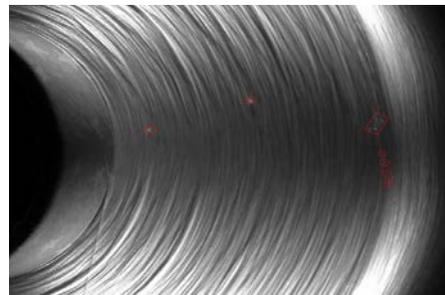
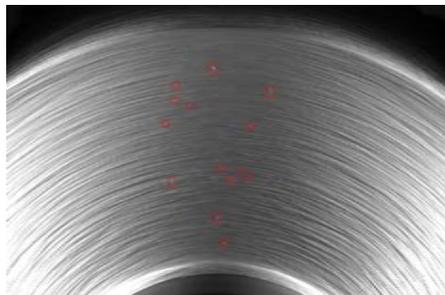
LDCS

Laser control system for weight, density and diameter of the yarn bobbins.

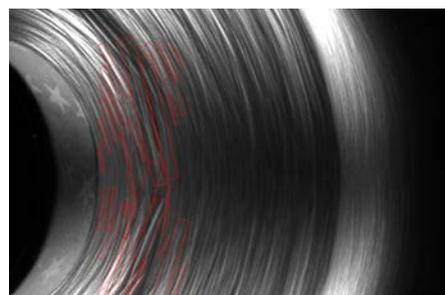
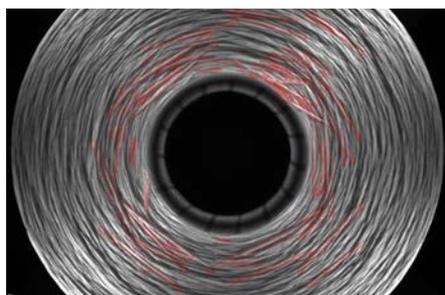
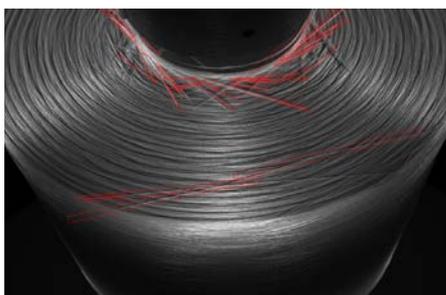


3 in 1 AI based quality control

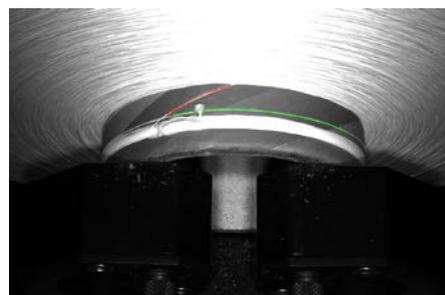
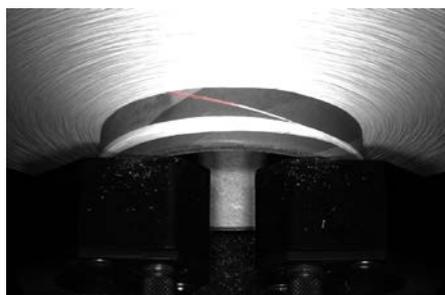
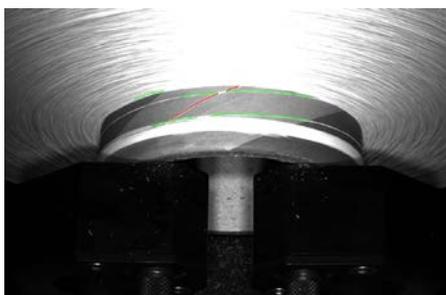
BROKEN FILAMENTS, LOOPS AND DAMAGED BOBBIN



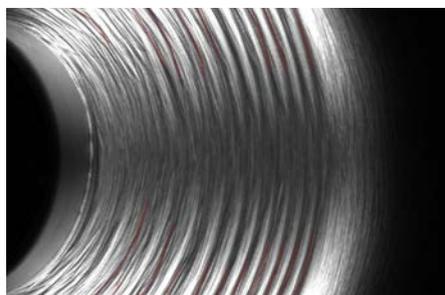
TRAVERSES



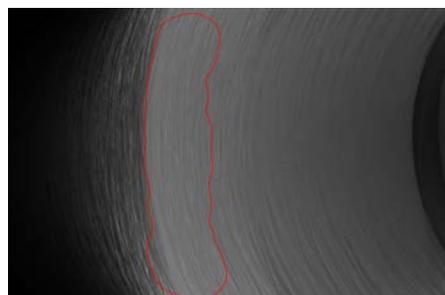
TAIL STATUS: presence, double, crossed, narrow



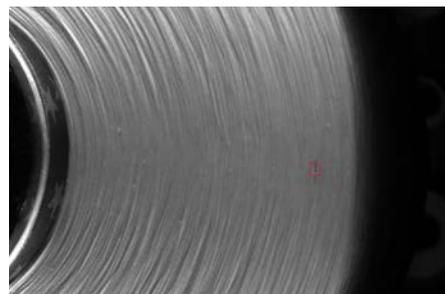
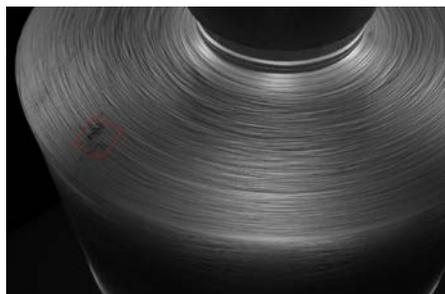
WAVES AND PROFILE STATUS

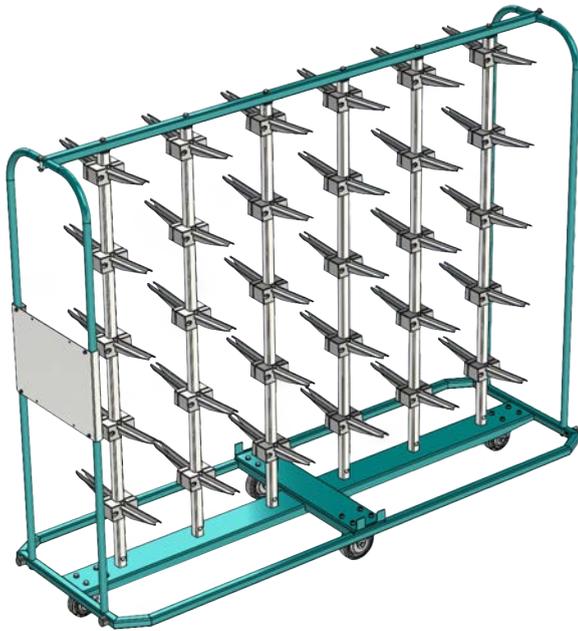


SHADE VARIATIONS

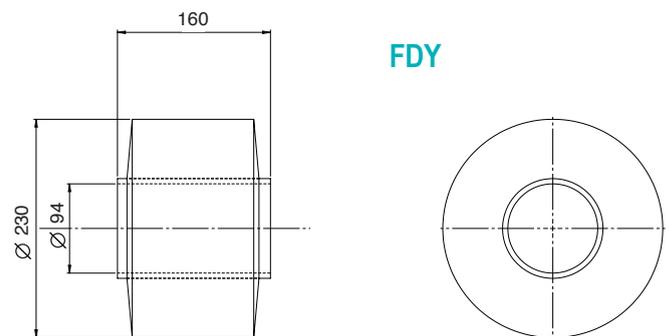
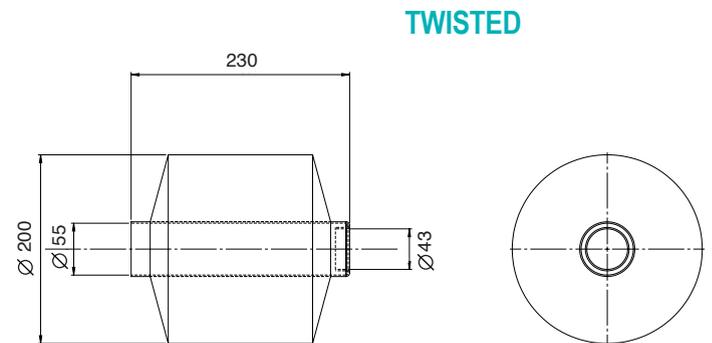
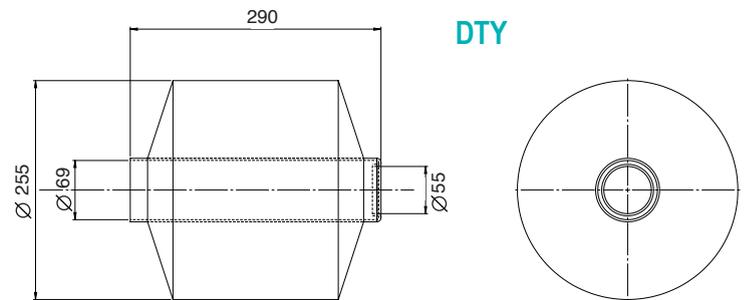


STAINS AND DIRT





This Smart Trolley is designed to be very light and handy, it is suitable for DTY, FDY and twisted yarn bobbins, weighting max 5,50 kg. The pins are designed to work with robot and automatic machines. The dimensions and layout can be personalized depending on the Customer needs.



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Made in Italy

