

A NEW AGE IN QUALITY CONTROL

LDCS

Laser Density Control System

THEMA SYSTEM
www.themasystem.com

LDCS-SMART EVO



LDCS-SMART WKS

The **LDCS** instruments series makes available in a quick way a series of information like: net weight, density, diameter and color variations (Varity Pro) of yarn bobbins/spools.

The yarn bobbins/spools classification is based on pre-defined parameters by local DB or with a link to a remote DB.

The profile of the bobbins/spool, detected by the laser measure system, is always available for immediate further verifications.

At the end or during the reading procedures, a series of data and useful statistics can be visualized by the operator.

The classified bobbins by LDCS system can be used directly in dyeing process and/or addressed into the internal production or delivered to the Customers.

With the use of ID-tubes or label inside the tubes, the classification parameters can be automatically read and the data automatically written on the yarn bobbin/spool (Codec), with direct link to the DB.

Specific personalization can be accordingly applied by our R&D Staff.



LDCS-SMART





*MODEL

LDCS-SMART

LDCS-SMART EVO

LDCS-SMART WKS

Resolution Data

Density	< 0,01 g/cm ³	< 0,01 g/cm ³	< 0,01 g/cm ³
Diameter	0,25 mm	0,25 mm	0,25 mm
Weight (0 ÷ 2999.9 g)	0,2 g	0,2 g	0,2 g
Weight (3000 ÷ 5999.9 g)	0,5 g	0,5 g	0,5 g
Weight (6000 ÷ 15000 g)	1 g	1 g	1 g
Bobbins analysis time	< 2 sec	< 2 sec	< 2 sec

Bobbins Specifications

Suitable for conical and cylindrical tubes

Max. tubes lenght	290 mm	290 mm	290 mm
Min. internal tubes diameter	40 mm	40 mm	40 mm
Max. bobbins weight	12000 g	12000 g	12000 g
Max. bobbins diameter	320 mm	320 mm	320 mm

Working Conditions

Temperatures	0/40 °C	0/40 °C	0/40 °C
Humidity	90% no condensation	90% no condensation	90% no condensation

Electrical Characteristics

Nominal tension	110 / 250 Vac	110 / 250 Vac	110 / 250 Vac
Max. power	100 Watt	100 Watt	180 Watt
Connection	Ph + N + PE	Ph + N + PE	Ph + N + PE
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
IP	IP54	IP54	IP54

Mechanical Characteristics

Dimensions L x H x P	35 x 80 x 65 cm	65 (max 150) x 170 x 73 cm	118 x 178 x 75 cm
Weight	50 Kg	158 Kg	192 Kg

* All models can be customized on specific request, our technical office is available for any customer inquiries.



IPC-W

INDUSTRIAL PC

Main Characteristics	
Operating system	Microsoft
Database	Microsoft SQL
Display	10 inch wide
	15 inch wide
Touch-screen	✓
Wi-fi	✓
Ethernet	✓
USB	✓



OR-BOX

ORANGE BOX

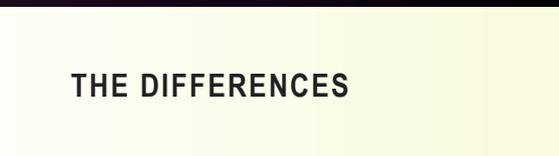
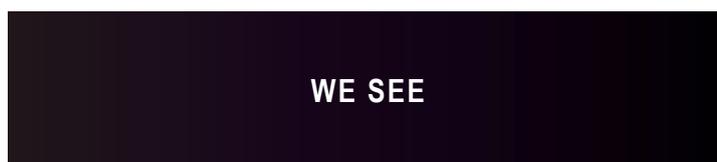
Tools for Calibration and Utility	
Certified calibrator	Designed to calibrate diameter and weight measurement at once and automatically. Certified by the manufacturer.
Utility	Technical manuals, wiring diagrams, pc keyboard, mouse, USB key, USB hub, touch-screen pen. Universal adapter.

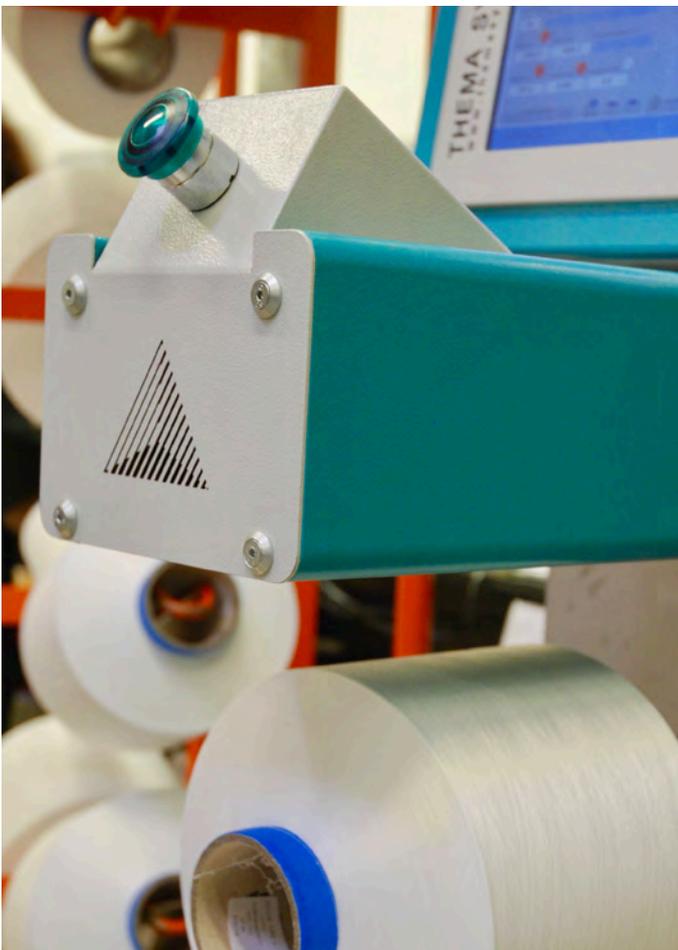


DEF-YR

VACUUM GENERATOR

Yarns aspirator	
Max. air consumption at 5 bar	36,0 mc/h
Max. air consumption at 6 bar	88 mc/h
Max. input pressure	6 bar
Max. vacuum	75 -kPa
Final pressure	250 mbar
Valve type	3/2



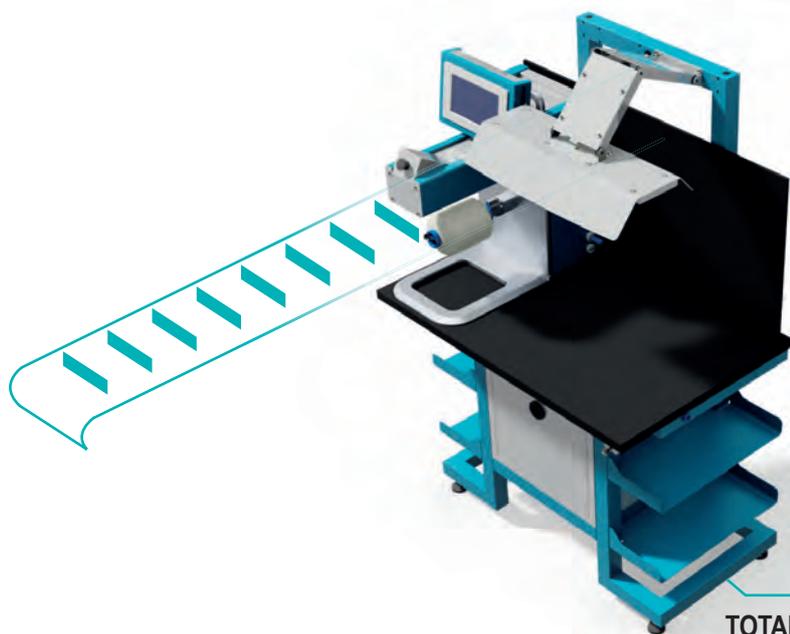




LAB QUALITY CONTROL



MACHINE PROXIMITY CONTROL



TOTAL SELECTION QUALITY CONTROL

 **THEMA SYSTEM**
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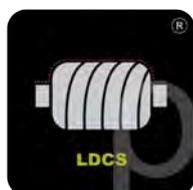
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Made in Italy



 **THEMA SYSTEM**

PARTNER OF

