

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.

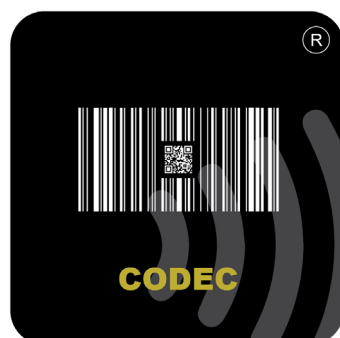
The classified bobbins by LDCS system can be used directly in dyeing process and/or addressed into the internal production or delivered to the Customers.

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





**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

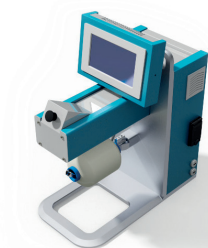
### Yarns aspirator

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



**WE SEE**

**THE DIFFERENCES**



## \*MODEL

LDCS-SMART

LDCS-SMART EVO

LDCS-SMART WKS

### Resolution Data

Density	< 0,01 g/cm <sup>3</sup>	< 0,01 g/cm <sup>3</sup>	< 0,01 g/cm <sup>3</sup>
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
Umidity	90% no condensation	90% no condensation	90% no condensation

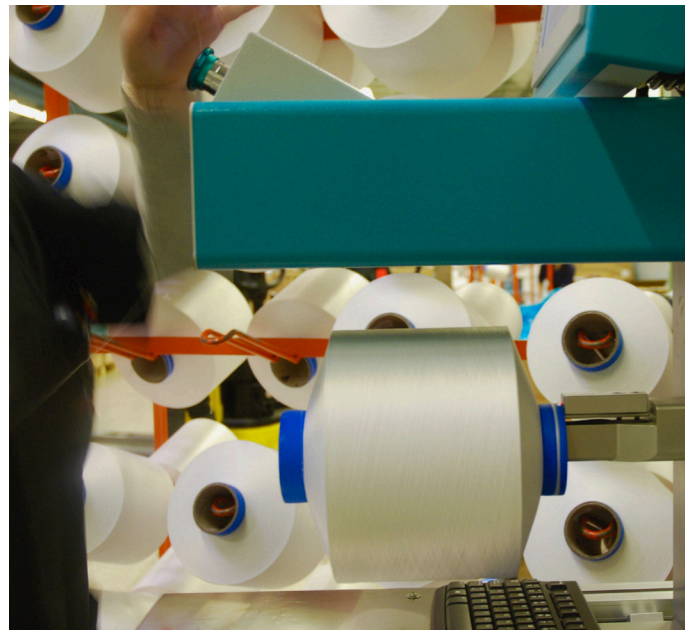
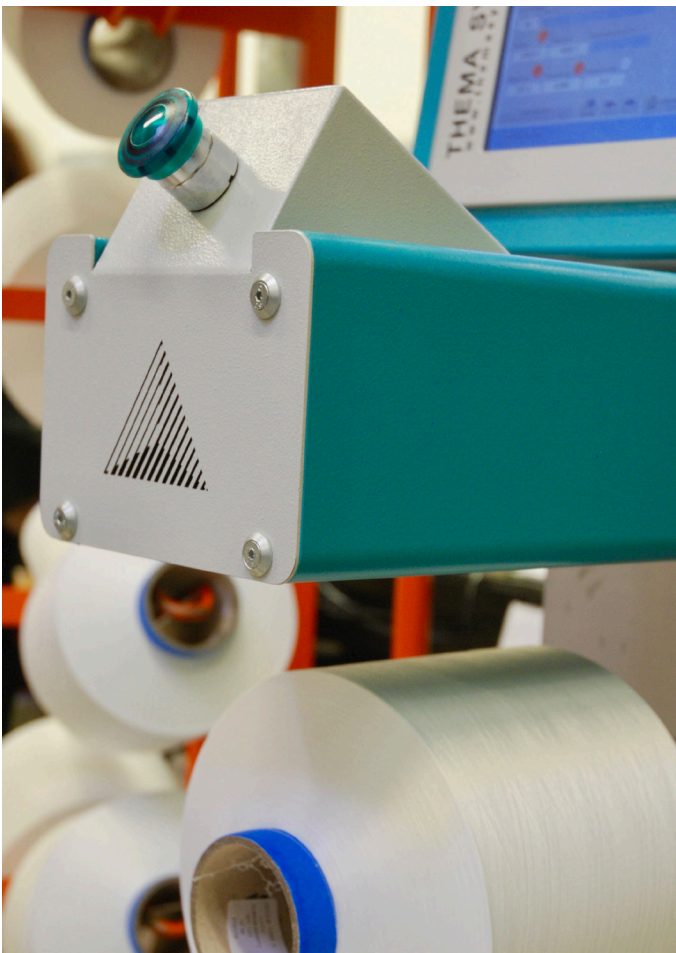
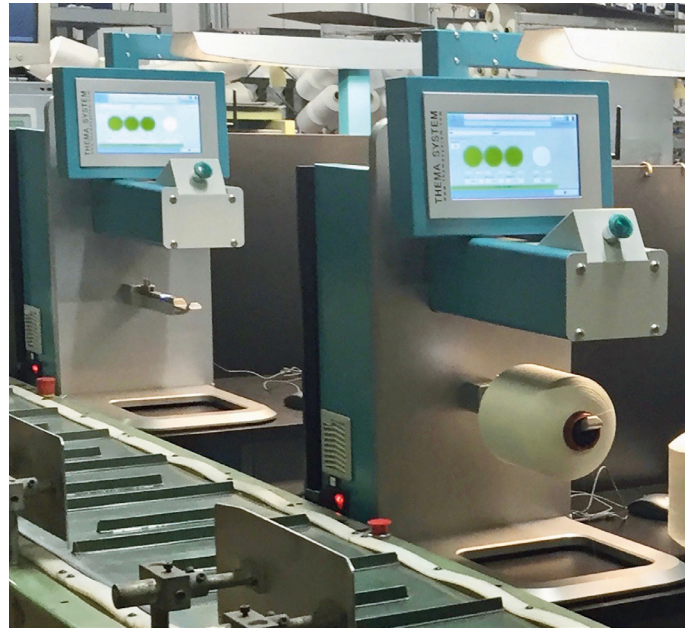
### Electrical Characteristics

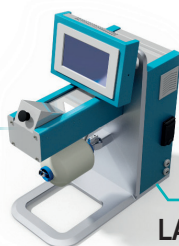
Nominal tension	110 / 250 Vac	110 / 250 Vac	110 / 250 Vac
Max. power	100 Watt	100 Watt	180 Watt
Connection	Ph + N + PE	Ph + N + PE	Ph + N + PE
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
IP	IP54	IP54	IP54

### 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.

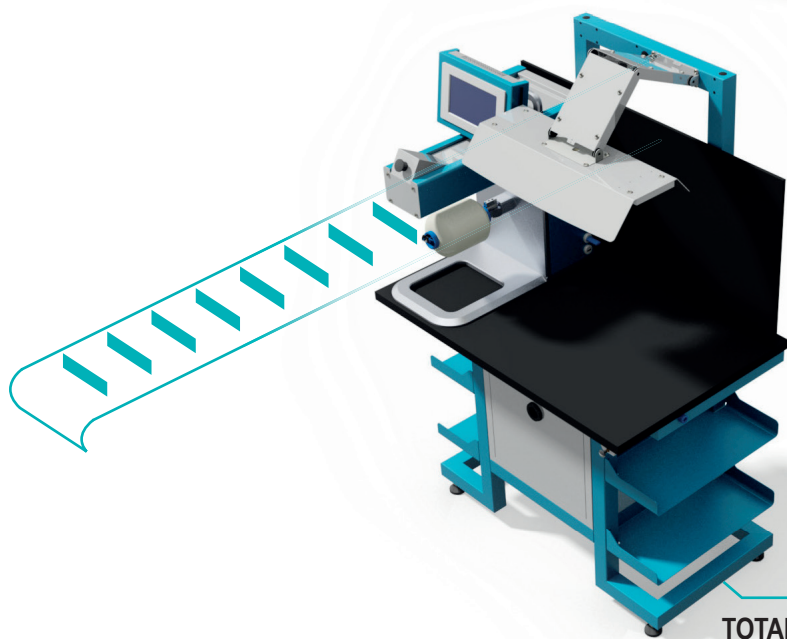




LAB QUALITY CONTROL



MACHINE PROXIMITY CONTROL



TOTAL SELECTION QUALITY CONTROL

 **THEMA SYSTEM**  
www.themasystem.com

**THEMA 2 S.r.l. - Headquarter & workshop:**

Via G.Puccini, 2/4 - 46024 Moglia (MN) Italy - Tel. +39 0376 556400

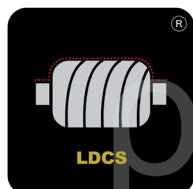
C.F. e P.IVA (VAT): 02300850209 - SDI: 2LCMINU

thema@themasystem.com

thema2@pec.it



Made in Italy



 **THEMA SYSTEM**

PARTNER OF

