

# THE TEXTILE MAGAZINE

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# Contents



**104**

**FONG'S – A.T.E.** 10 years of successful partnership



**136**

Complete textile manufacturing solutions from **VOLTAS**

## **MANUFACTURING SOLUTIONS**

- 114 Role of insulated curtain walls in humidity control applications
- 130 **CYBERSECURITY** for controllers
- 135 **INA** makes a mark with intelligent hanger systems

## **IMPACT FEATURE**

- 118 **Ideal Bobbins** strong presence in south Indian markets

## **ITMA 2019**

- 129 **Salvadè** to showcase tumbler dryer technology at ITMA 2019



**142**

**TECNORAMA**,  
global leader in dyehouse automation solutions

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## MANUFACTURING SOLUTIONS

# TECNORAMA, global leader in dyehouse automation solutions

**T**ecnorama of Italy is always testing and patenting the best solutions to optimize dyehouse workflow both in laboratory and in bulk. Technological innovation leads the study of the internal research & development center investing in time and resources for the best result.



4.0 Industry features of the machines are the result of such commitment of the company.

The leading product is Dos&Dye, the popular laboratory system to automate dyehouses. It is a completely automatic system composed of a Dosorama dispensing machine and a robotized dyeing machine able to work autonomously 24 hours a day, seven days a week. Conceived, manufactured and patented by Tecnorama, it can manage and perform all laboratory dyeing cycles increasing the productivity both for laboratory and bulk. In the laboratory, it reduces the dyeing trials to obtain the exact recipe thanks to the complete reproduction of the dyeing cycle exactly as in bulk machines in preparing, dyeing, soaping and washing.

The right first time result grants the exact recipe coming from the laboratory in order to drastically reduce the corrections after dyeing and the re-dyeing



Mr. Mario Scatizzi, CEO, Tecnorama



## MANUFACTURING SOLUTIONS

into bulk machines with a huge saving of time dedicated to a production batch and the increase of the whole productivity of the dye house.

Thanks to the optimization of production processes and to the overcoming of those limits inherent manual management of laboratory, the system allows to reduce water and energy consumption for an environment-friendly approach and for a considerable saving of time and money.

The system consists of an automatic dispensing machine (Dosorama W, WS or WSL machines), working with one or more automatic dyeing machines (TURBODYE 8R/20, SHAKERAMA 4R/20, DYRAMA 8R/100, DYRAMA 8R/200, or DYRAMA 6R/500).

Dosorama dispensing machines are available in different models, depending on the number of dyestuffs used by customers.

The number of bottles for solutions ranges from 72 to 436. All the Dosorama use the Tecnorama multi-pipette patented system, thus eliminating a possible contamination that can happen using other systems.

This guarantees an accuracy of the  $\pm 0,01\text{cc}$  and the dyeing machines follow all the phases of bulk dyeing cycles starting from the preparation up to the final operations such as neu-

tralization and the various washing processes.

All this increases laboratory productivity and raises the percentage of right-first-time between the recipes developed in laboratory and the same repeated in bulk.

Consequently, the re-dyeing and bulk corrections are reduced bringing both economic and energy savings. Each model of dyeing machine has individual dyeing units that can work independently, making it possible to carry out different dyeing programs in the different units, reproducing the same diagrams and steps used on bulk dyeing machines.

With TURBODYE 8R/20

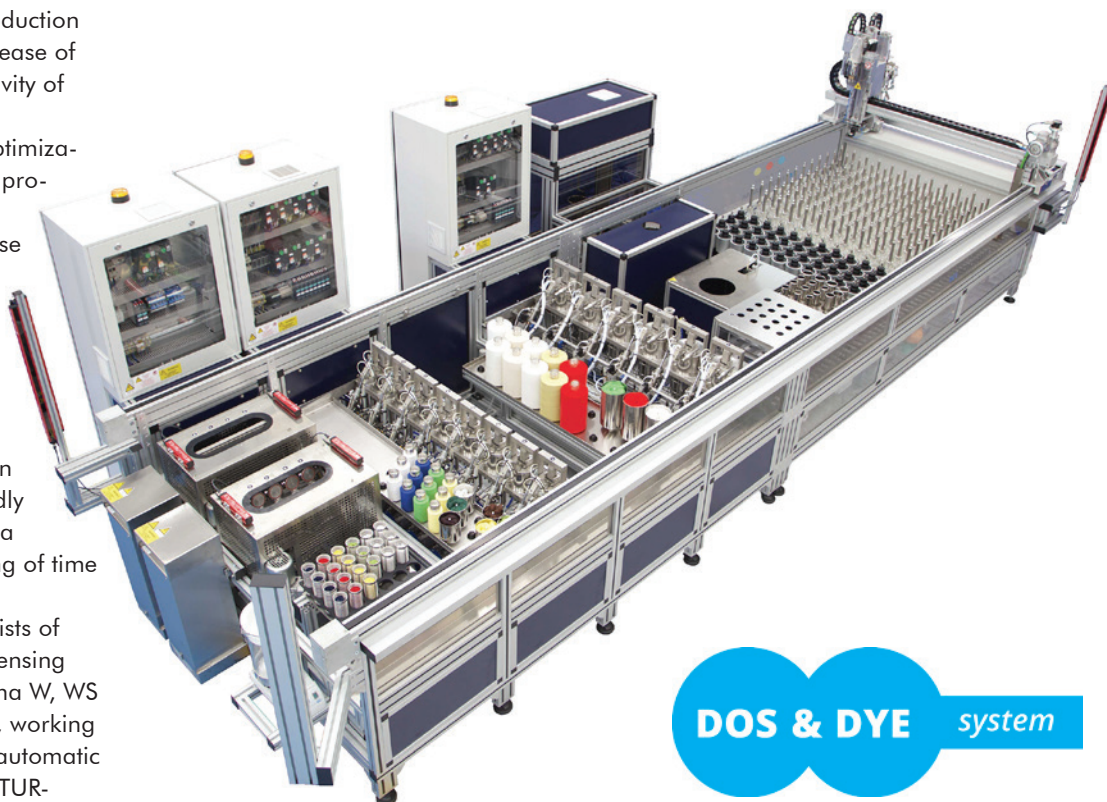
and SHAKERAMA 4R/20 it is possible to dye up to 20 g textiles: fabric, knits, yarn (winded or in hank form), flock, tops, etc. With DYRAMA 8R/100 up to 100 g, with DYRAMA 8R/200 up to 200 g and with DYRAMA 6R/500 up to 500 g. The customer choice depends on the type of material, the loading capacity and the liquid ratio required.

Dos&Dye has been evaluated from an international testing, inspection and certification Institute matching the features required from the National Law of some countries to get benefits for 4.0 investments.

The Dos&Dye system accomplishes the following features for 4.0 industry:

CNC/PLC control, interconnection with factory information system, integration with logistic system, friendly man-machine interface, standard safety compliance, continuous monitoring of working conditions, process parameters and remote control.

Adopting a Tecnorama full-automatic system means the decrease in the labour dedicated to sampling and the possibility of working during night or weekends, the definitive efficiency is given by eliminating errors in dispensing and by a considerable reduction in the dyeing to get the exact recipe.



**DOS & DYE** system