



# COLARIS towel printing



e-treatment ......6
line pre-treatment......8
ine pre-treatment ..... 10

# HOW TO PRINT TERRY FABRIC EFFICIENTLY WITH A DIGITAL PRINTER?

Different towel qualities and fabric structures require a flexible printing method. The key to success can only be a digital printing solution. Flexibility in terms of application amount, penetration control, and an efficient process for dye fixation are the challenges.

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Heavy and voluminous products can't be printed with conventional digital printers as offered by other manufacturers. Such printers may be suitable for fashion fabric but are not economical for heavy fabric structures.

Terry fabric printed by a ZIMMER AUSTRIA COLARIS will look fresh even after many washes, as the penetration has been controlled precisely and ink has entered deeper into the pile. Improved fastness, strong, vibrant and brilliant colors for a long time are the benefits.



## What does printing need?

- Fabric should be well prepared for printing. Mercerizing of fabric is strongly recommended for high quality towels with bright colors.
- Nice velour, mostly double sheared and brushed for fine and even surface.
- Well cleaned fabric surface to avoid uneven printing.
- Reactive printing needs inkjet pre-treatment for dye fixation.
   The same can be applied offline with a padder on a stenter or inline, with a foulard, a MAGNOROLL-GMA or a CHROMOJET-DPT digital pre-treatment applicator.
- Digital inkjet printing
- Hot air or steam treatment to fix the dyes with the fiber of the towel
- Post print washing to remove unfixed dyes and improve rub fastness

The most economical way of printing is the all inline process. It may involve a slightly higher investment, but gives 100% control of penetration, reduces ink consumption and logistical needs and delivers fabrics ready for post print washing and final finishing.

Shorter process means less handling, less energy consumption, less work force

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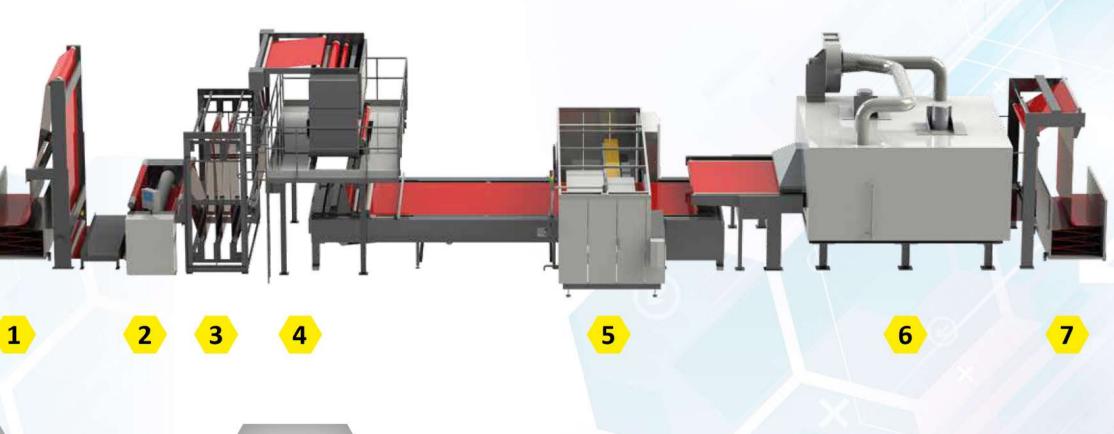
bric wove seam warp

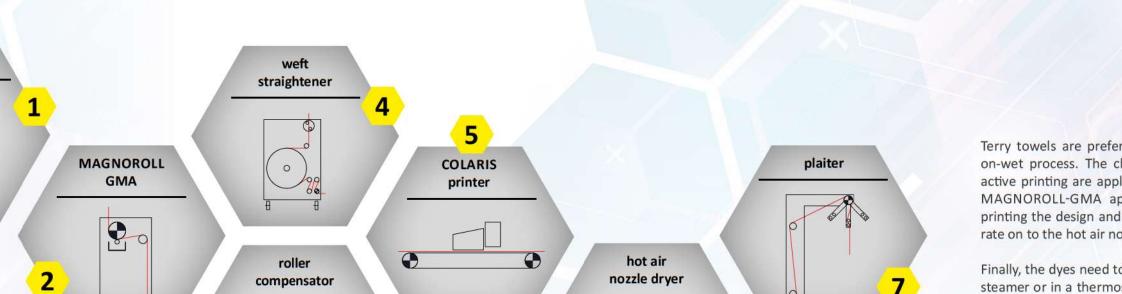
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#### FFLINE PRE-TREATMENT 2 3 6 4 COLARIS printer The offline pre-treatme which is prepared for rolled on A-frames. plaiter 0 fabric guiding A-frame A fabric cleaning syste system unwinder nally. Printing is done v system to achieve a goo 1 color depth. Right after with a hot air nozzle d fabric cleaning hot air for dye fixation into a lo device nozzle dryer fixation unit. Finally, the fabric need $\approx$ staining because of unf

and factor and level

#### ILINE PRE-TREATMENT

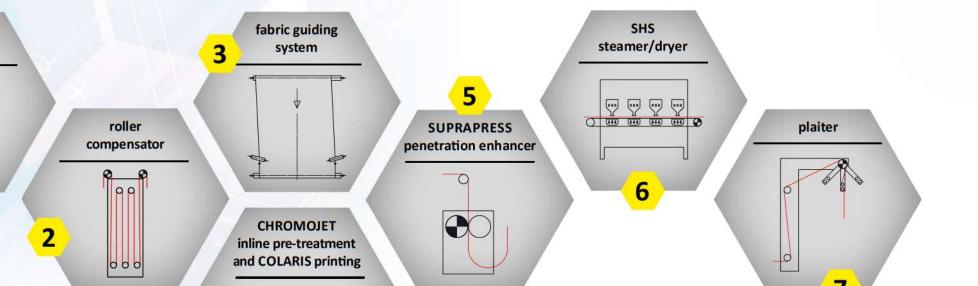




is washed for good fastr

### TITH DIGITAL INLINE PRE-TREATMENT ND INLINE FIXATION





Well prepared and ne plied from an A-frame used as a buffer for bat ding system aligns the pre-treatment is appli MOJET applicator and by a traversing press roccolaris printer. Option tration enhancer can be and dye fixation unit in substrates. Dye fixation SUPRAFIX-SHS fixation

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### COMPONENTS









ZIMMER MASCHINENBAU GMBH DIGITAL PRINTING SYSTEMS



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