

Terry Products (?????)

michael.heinrich / PDF / ??, 08/08/2017 - 12:38



Basics

Terry towels and other terry products are economically printed in roll-to-roll form. The fiber is normally out of cotton and is being printed with reactive dye or inks. To achieve highest fastness level, VAT dyes are used.

There are several challenges:

1. To deliver the fabric onto the printer with minimum distortion
2. To print the design in the center of each towel, although the length of each towel is varying slightly.



Applications

Printed terry products are used for promotion items as well as for fashionables.

- Promotion and advertising towels
- Custom-made club towels
- High-end towels for hospitality business
- Beach towels
- Bath robes

Printing Methods



Flat screen printing

This was the preferred method in the past and is still used for economic production of high-quantity beach towels.

- Simple but labour-intensive process
- Limited number of colors
- It is also possible to print individual towels
- Large space required



CHROMOJET.PRINTER

| Process color jet printing

This process is used for medium to high-pile terry products.

- Up to 16 spot or process colors
- No special pre-coating needed
- Relatively low production speed

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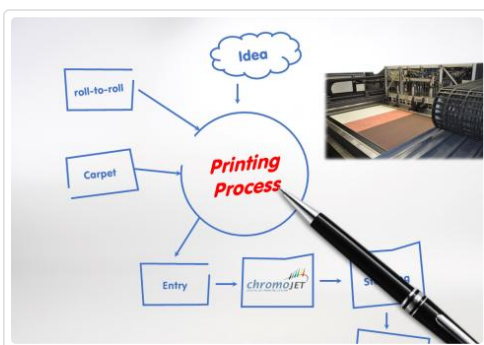
COLARIS TEXTILE PRINTER

| Inkjet printing

This is the preferred method for low-pile velour fabrics.

- Only 4 (optionally 6) colors needed
- Finest details and definition
- Good penetration on low-pile velour type terry fabric
- Fabric must be pre-coated either with **CHROMOJET** or with **MAGNOROLL GMA** inline pre-coat application

Printing Process

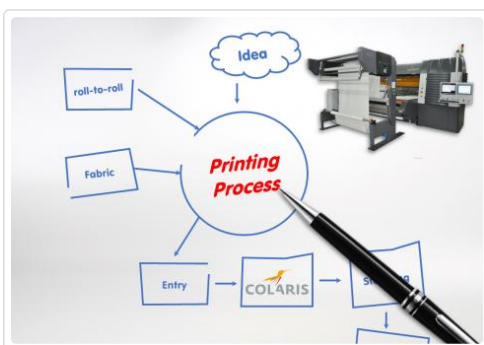


CHROMOJET printing

- Feeding system: The fabric with 1 to 3 rows of towels is positioned on the printing blanket by a special feeding device, which feeds the towels as straight as possible
- Measurement of the length of the printable part
- Design printing with **CHROMOJET**, using up to 16 spot or process colors
- Drying

Offline process

- Steaming for about 10 minutes at 120°C / 250°F
- Washing
- Drying



COLARIS inkjet printing

- Feeding system: The fabric with 1 to 3 rows of towels is positioned on the printing blanket by a special feeding device, which feeds the towels as straight as possible
- Digital pre-coating with **CHROMOJET**
- Design printing with **COLARIS**, using 4 or 6 process colors
- Drying or inline fixation

Option: *SUPRAPRESS* to enhance penetration

Offline process

- Steaming for about 10 minutes at 120°C / 250°F
- Washing
- Drying
- Finishing

Inline process

- Printing
- Inline fixation (steaming & drying) followed by offline washing & finishing

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Alternative processing

- Stenter drying at about 160°C / 320°F
- Washing
- Tumbler drying

Technical Data

Printing Machines

Machine	CHROMOJET.PRINTER	COLARIS.TEXTILE PRINTER
APPLICATIONS	76 dpi Spot or Process Colors	Process Colors
Dye system	Reactive dyes	Reactive inks for cellulose Disperse inks for polyester VAT inks for high light fastness
Printing widths	2,200 mm	1,800, 2,600 or 3,200 mm
Number of colors	16	4 (optionally 6 or 8)
Jets / Printheads per color	256 jets	8 printheads (Starfire 1024)
Resolutions	76 x 50 or 76 x 76 dpi	400 x 800 dpi
Printing speed	up to 2 m/min	up to 6 m/min

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