

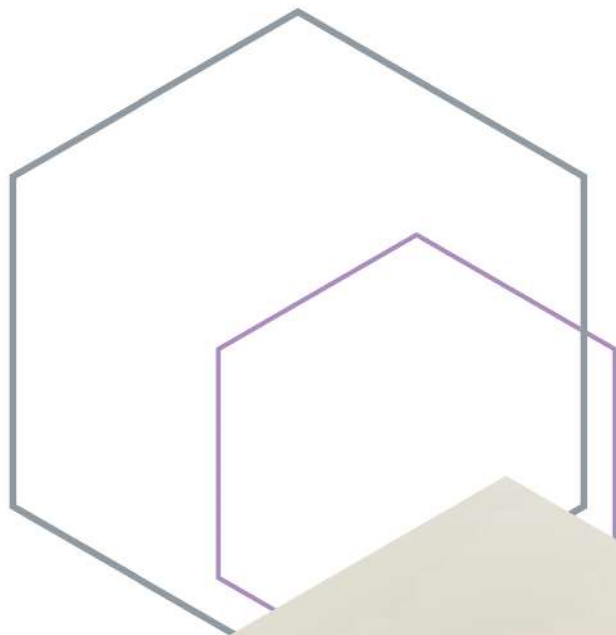
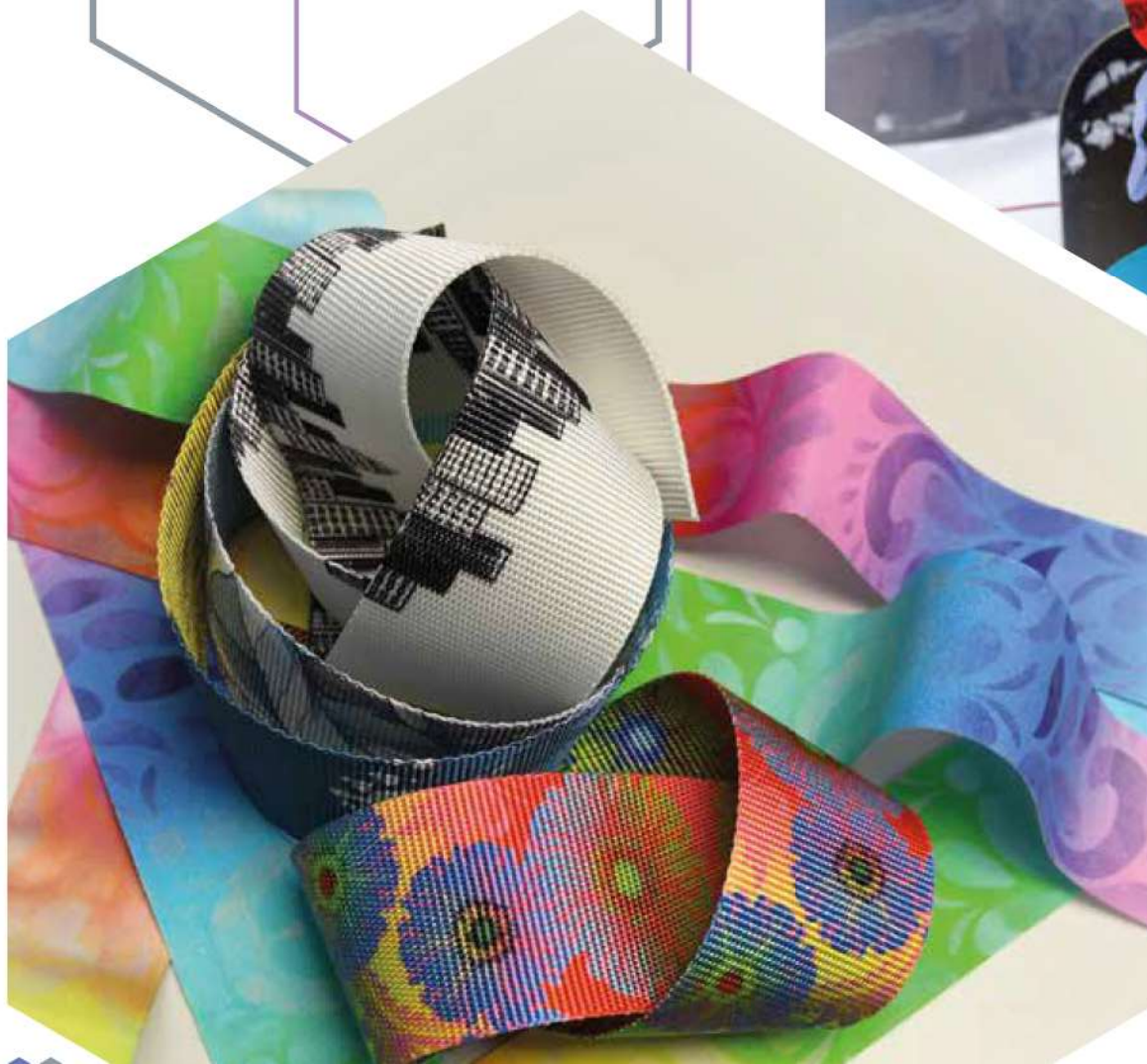


PIONNERING INNOVATIONS
150 YEARS



COLARIS *narrow fabrics*

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highlights

- digital workflow from design through production
- open ink system allows free selection of inks from certified ink suppliers
- permanent ink circulation system for efficient production
- printhead re-condition center for extended printhead service life
- modular concept for standalone or integrated into all inline print production

1874

QUALITY SINCE 1874 -
Factory Franz Zimmer's Erben KG Warndorf

1951



1955

RSD rotary screen printer



1976

CHROMOTEX digital inkjet printer
for special applications

2008



2012

COLARIS-NF
single-pass printer for webbings

1. What is the target market and final application?
military webbings, automotive seat belts, medical bandages, technical decoration ribbons, promotion lanyards
2. What maximum print width and what production capacity are required?
Are webbings to be printed on one side or on front- and backside in a single pass?
3. What is the fiber base and construction of the substrate?
polyamide, polyester nonwoven etc.
4. Any specific fastness requirement to be matched?
The fiber base defines which ink is to be used. Inks are widely researched for fastness properties such as rub-, light- and wash-fastness.
5. Is there existing equipment that can be used?
6. Which design and RIP software is best for my business?
7. Do I have the right people to operate print line and software?
8. Last but not least: Are the overall costs within an economic range?



The narrow fabrics market is used to deal with big volumes, since ever. The global trend of individualization is a challenge for conventional printing - not so with the COLARIS-NF printing technology.

The digital workflow guarantees fastest market response, irrespective of order quantity.

Depending on the required printing process the printing line can be configured to the customers' needs.

Besides the printer, ZIMMER AUSTRIA is also offering machinery for pre-treatment, drying, heat fixation, steam fixation and washing of the fabric – either as integrated units in a complete production line (inline) or as separate process units (standalone).

It is also possible to use existing equipment and synchronize it with the COLARIS-NF printer.

APPLICATIONS

- automotive
- technical
- military
- promotion
- decoration
- apparel
- elastics
- wash labels



ADVANTAGES

- a fully digital workflow ensures accurate re-production of any design or color shade
- efficient production of short runs and samples
- change of color and design on the fly
- different colors or patterns on front and back
- any pattern/color combination in one process
- no production loss due to change of pattern/color change

SELECTION DEPENDS R AND FINAL APPLICATION.



REACTIVE

cotton/cellulosic fibers,
wool/protein fibers

light fastness	+
wash fastness	+++
crock fastness	++
chlorine fastness	+
brilliance	++

.....

PROCESS REQUIREMENTS

- inkjet pre-treatment
- printing, (drying)
- steam fixation
- washing

.....

END PRODUCTS



DISPERSE

polyester

light fastness	++
wash fastness	++
crock fastness	++
chlorine fastness	+
brilliance	++

.....

PROCESS REQUIREMENTS

- inkjet pre-treatment
- printing (drying)
- heat fixation
- washing

.....

END PRODUCTS



SUBLIMATION

polyester

light fastness	+
wash fastness	+
crock fastness	++
chlorine fastness	+
brilliance	+++

.....

PROCESS REQUIREMENTS

- inkjet pre-treatment
- printing
- heat fixation

.....

END PRODUCTS



PIGMENT

all types of fibers

light fastness	+++
wash fastness	+
crock fastness	+
chlorine fastness	++
brilliance	++

.....

PROCESS REQUIREMENTS

- inkjet pre-treatment
- printing
- heat fixation

.....

END PRODUCTS

Digital printing is a complex task for which the entire workflow has to match. From design, color management and communication up to printer calibration - all must be perfect for a superb result.

Essential tools are fast computers with fast networks, a lot of memory space and well trained operators.



PRINTER CALIBRATION

Basic process setup and print resolution must be defined and stable before a calibration is made.



COLOR MEASUREMENT

Digital printing needs digital information to communicate. Color measurement is essential. Different



COLOR CALIBRATION

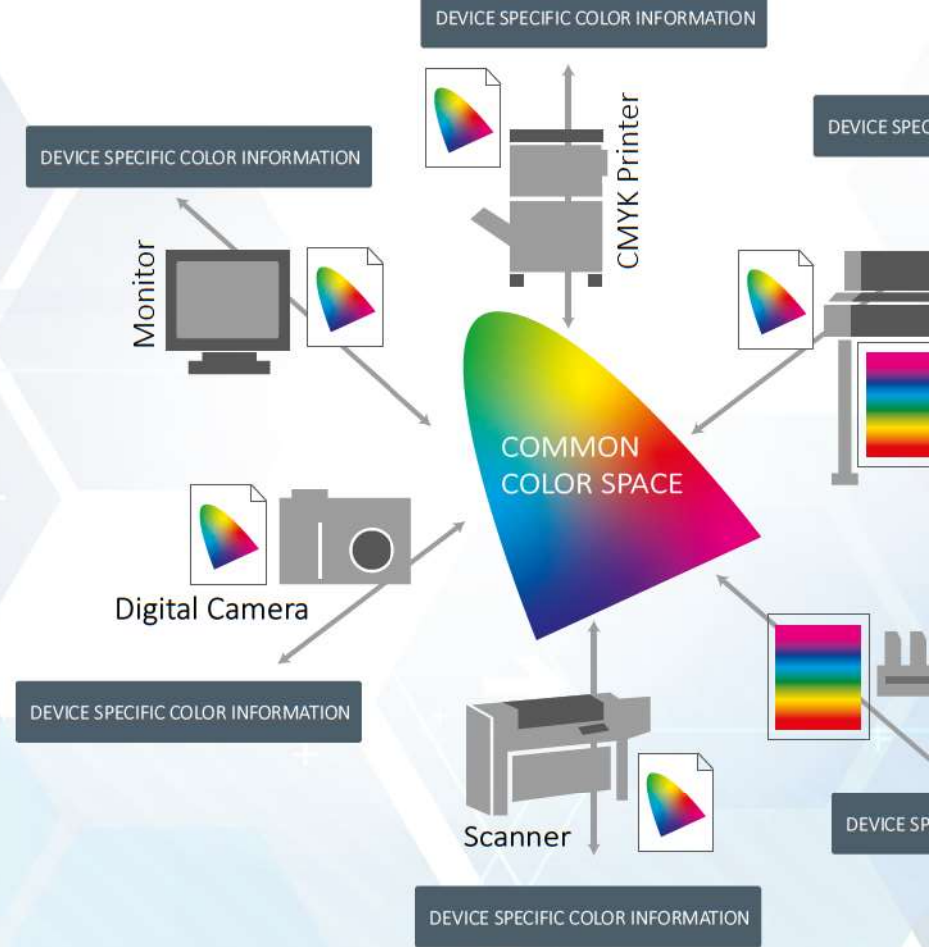
Color calibration is needed to communicate and match colors. This makes sure that colors appear identical



DESIGN SOFTWARE

There are a number of pixel- or vector- based software tools on the market: Photoshop® Gimp®

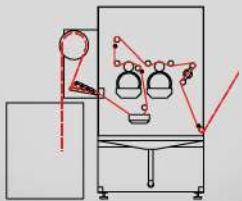
During inform



possibilities

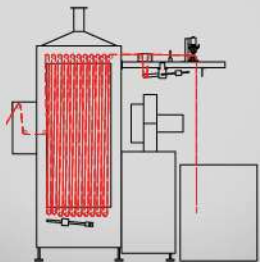
1
optional

INLINE PRE-TREATMENT



2

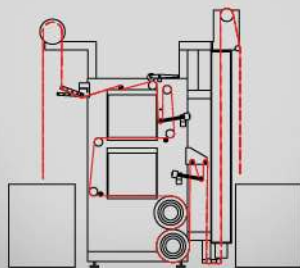
INLINE DRYING



optional

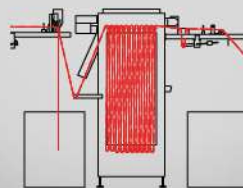
3

COLARIS PRINTER



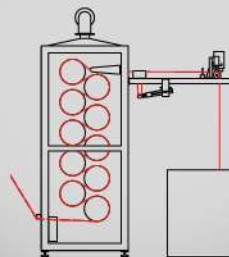
4a

INLINE STEAM FIXATION



optional

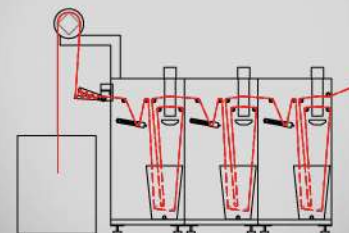
INLINE HEAT FIXATION



4b

optional

POST-PRINT WASHING



5

6



SINGLE

a single-pass digital printer for one sided prin-

al for individualizing of consumables such as
pes. It is also used for printing of hook & loop
s, bandages or wash labels.



APPLICATIONS

- hook & loop
- face masks
- cleaning wipes



TECHNICAL DATA

print width:
available at 100 mm (4")
or 300 mm (11,8")

print speed:
up to 30 m/min





MULTI

single-pass digital printer for narrow fabrics. The first machine in the market which can print front- and back- simultaneously in a single pass.

The front- and back- side may be identical, mirrored or even of a different color. It is possible to print on one side and apply a single, double- (weaving) on the other side.



APPLICATIONS

- military webbings
- safety belts
- technical tapes
- decoration ribbons



TECHNICAL DATA

configurations:

working width 65 mm (2,5")
at up to 8 colors



technology center

A woman with dark hair is seated at a desk, looking at a computer monitor. The monitor displays a software interface with various colored blocks and text. In the foreground, a large, vibrant bouquet of flowers, including red, orange, and yellow blooms, is placed on the desk, partially obscuring the keyboard. The entire scene is framed within a white hexagonal border.

Our facilities are fitted with all technologies including CHROMOJET, COLARIS Printing and Coating Systems, as well as with a comprehensive set-up of laboratory equipment. But most important is the staff working in the Technology Center: Each of them is a specialist in his field.

The technology and application center supports machinery and technology development. Furthermore, it gives proof

COLARIS



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