

COLARIS

THE BEST DIGITAL CARPET PRINTING LINE

Tradition – Style - Art

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COLARIS Carpet Printing

In the following we like to highlight why COLARIS is the right choice for your future investment.

Knowhow – R&D – Partnership

Ink classes available

Robustness and Precision

Electric/Electronic Control System

Heart of the Printer

Hard- & Software developed

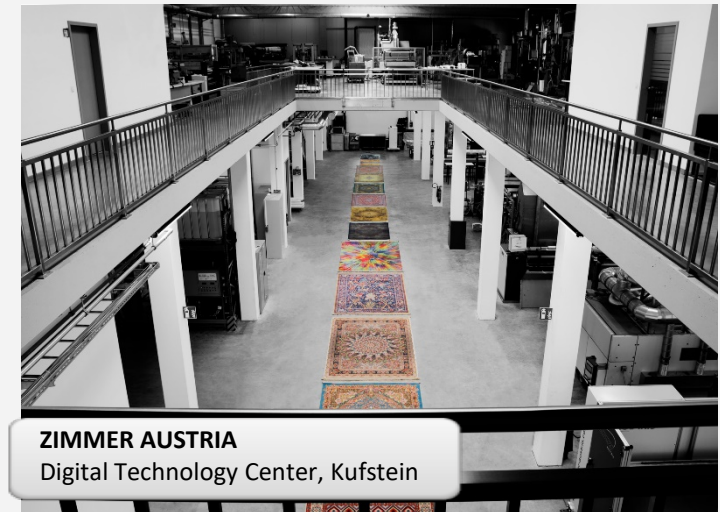
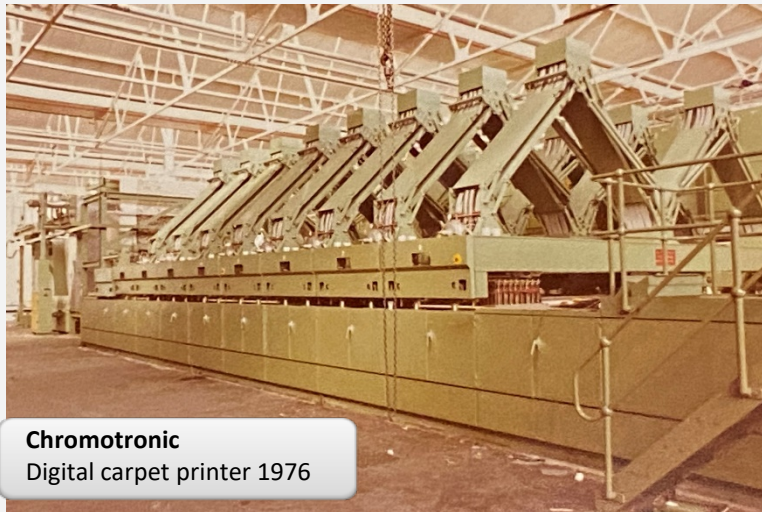
Ink feeding system

Service and Technical Support

Open ink system

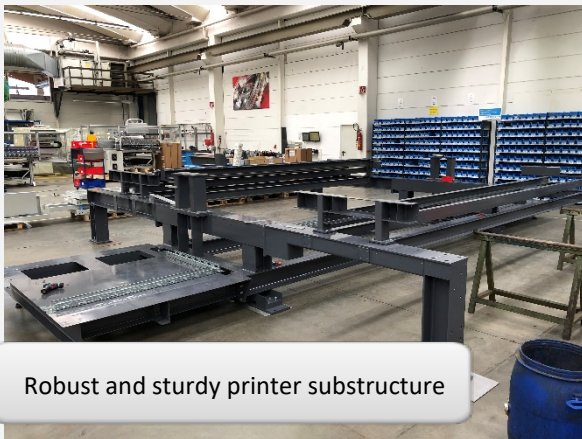
Print line options

Knowhow – R&D – Partnership



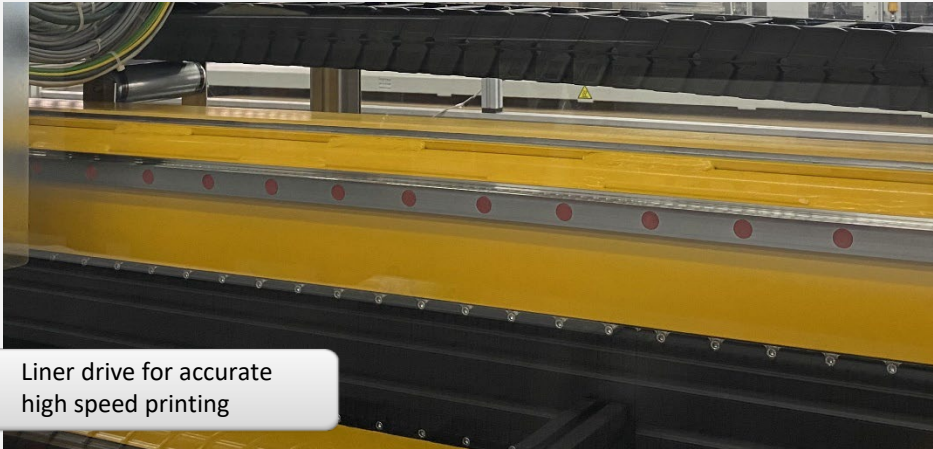
- Experience and knowhow gained over 45 years through engineering of digital printing machines for any kind of carpet substrate.
- Constant research & development to improve process technology at our inhouse technology center.
- Engineering, vertical range of manufacturing, paired with a world class service – all from a single source.

Robustness and Precision

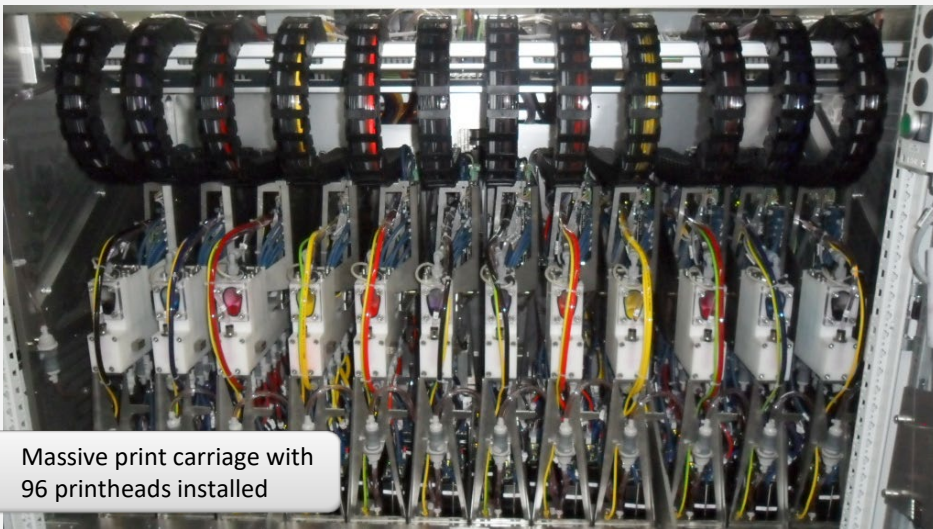


- Solid and sturdy construction of the printer and all its print line components for a stable operation and maximum service life.
- Carpet transport and positioning without elongation of printing blanket during acceleration and deceleration. Our twin drive system and 400 mm diameter transport rollers are the guarantee for precision carpet transport and positioning.
- Rugged conveyor belt made from Kevlar fiber weave and thermoplastic PU.
- Hardened pins affixed to the conveyor belt hold the carpet tightly in position.
- Spreader roller for unbacked carpet – bow roller for backed carpet ensure accurate placement of substrate on the conveyor belt.

Heart of the Printer



Liner drive for accurate high speed printing



Massive print carriage with 96 printheads installed

- Printing carriage and carriage guiding – precision is ensured by a heavy duty, maintenance free linear drive with permanent position control, mounted on a solid carriage beam.
- Carriage configuration is available with up to 6 or alternatively up to 12 color groups, fitted with Dimatix Starfire™ printheads – type selectable as per requirement of the printing substrate.
- Printhead maintenance through capping system with automatic wash and vacuum extraction for printheads and carriage base.

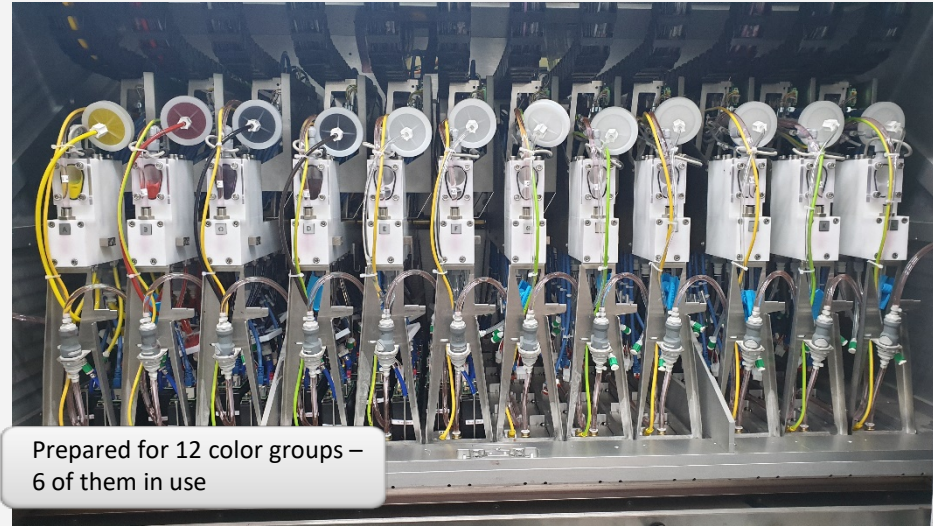


Robust Dimatix Starfire printhead

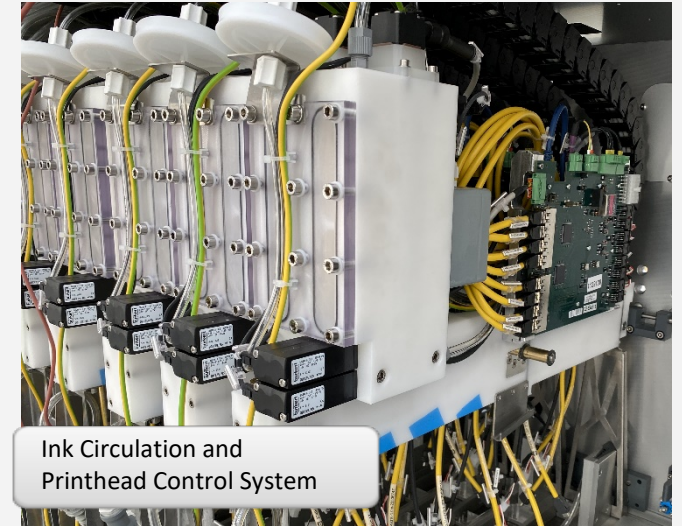
Ink feeding system



COLOR FEEDING:
Filtration and degassing system



Prepared for 12 color groups –
6 of them in use



Ink Circulation and
Printhead Control System

- Ink temperature conditioning by heating/cooling for optimum jetting performance.
- Permanent in circulation incl. inline degassing and three step filtration system.
- Low-cost booster fluid to adjust penetration as per needs of substrate.

Open Ink System

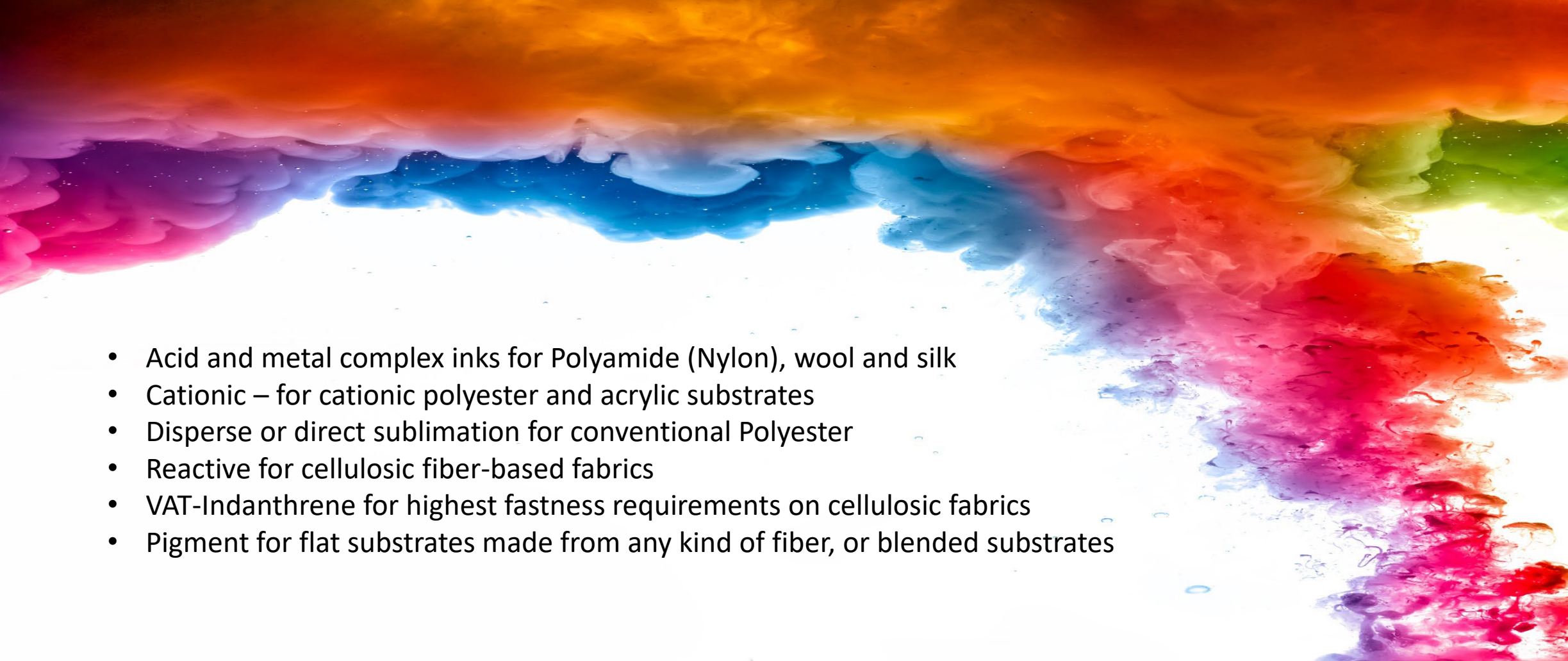


Open ink system allows customer to choose from a selection of certified ink suppliers.

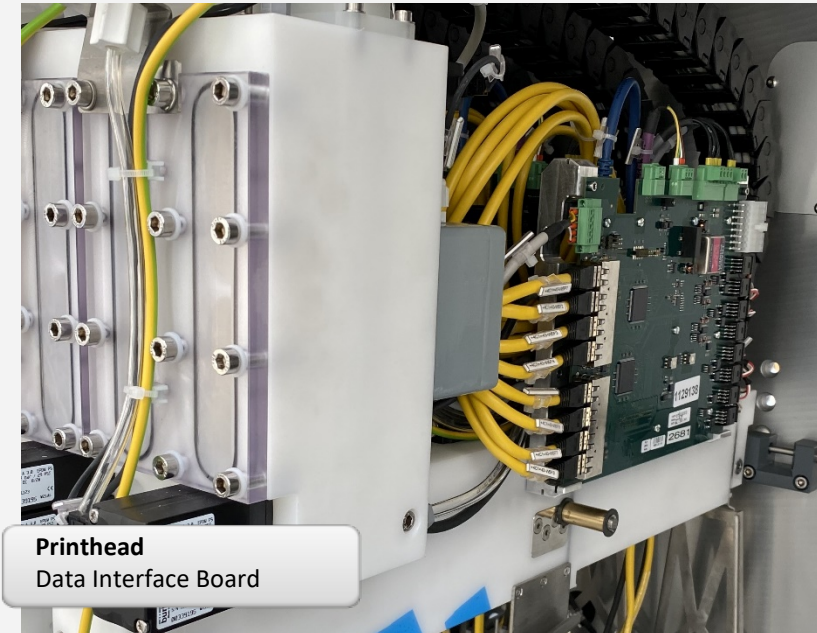
Gain from:

- Maximum range of products
- Enhanced fastness properties
- Improved color gamut
- Cost reduction
- Logistic benefits

Ink classes available

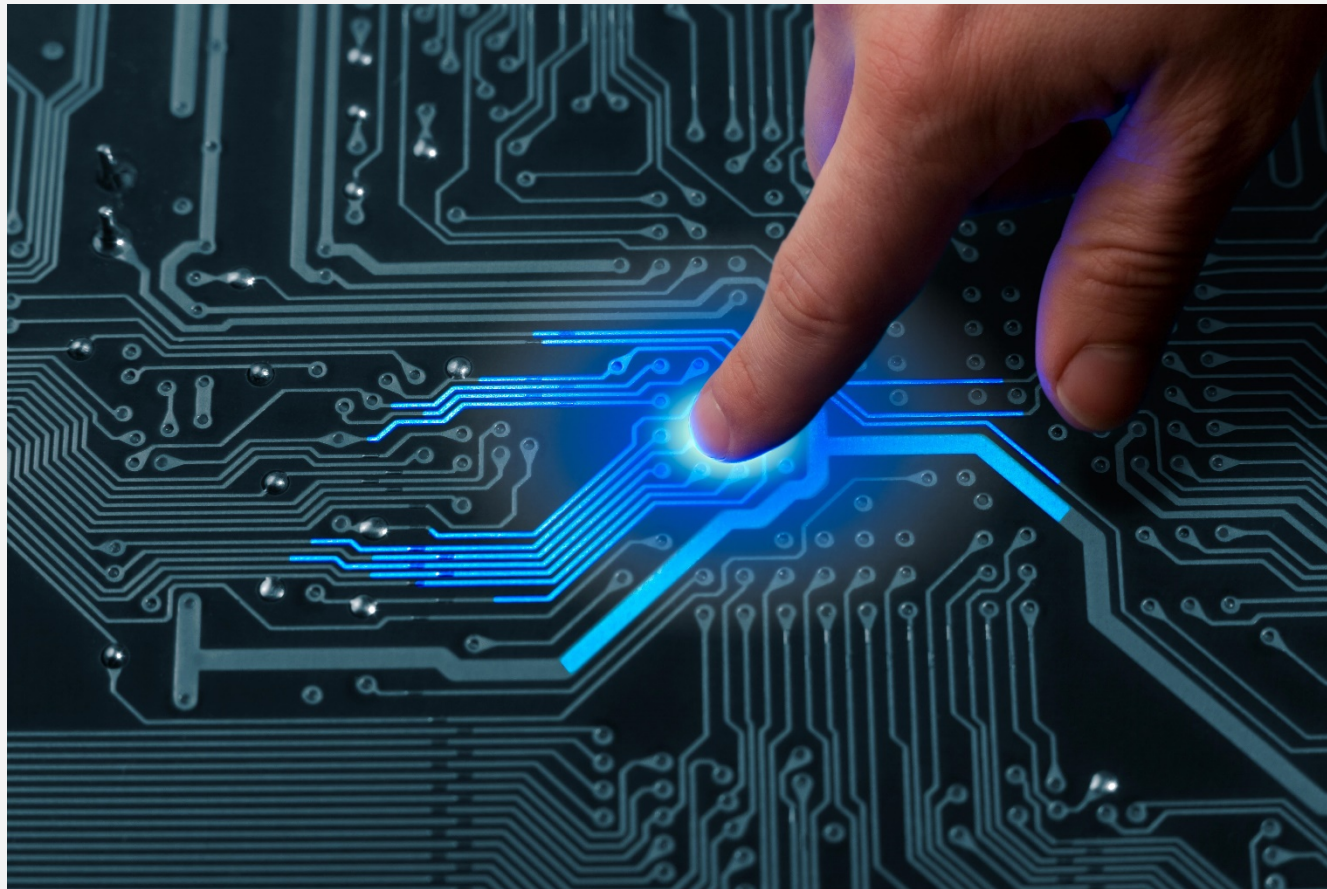
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- Acid and metal complex inks for Polyamide (Nylon), wool and silk
 - Cationic – for cationic polyester and acrylic substrates
 - Disperse or direct sublimation for conventional Polyester
 - Reactive for cellulosic fiber-based fabrics
 - VAT-Indanthrene for highest fastness requirements on cellulosic fabrics
 - Pigment for flat substrates made from any kind of fiber, or blended substrates

Electric and Electronic Control System



- Lenze drives, and internationally recognized industrial control components for a trouble-free operation and worldwide domestic support.
- Print engine and control elements are ZIMMER AUSTRIA developments, produced by specialists for electronic board manufacturing, under strict quality control standards.

Hard- & Software developed by ZIMMER AUSTRIA



- Basic print engine to control all print settings and general operational features of the printer.
- Layout manager and print list generator.
- Online or offline pre-print (RIP) operation.
- Open RIP system – COLARIS can work with various RIP software solutions available in the market.
- Optional RIP on the fly – print engine with integrated Inedit RIP solution.
- Automatic printhead calibration system

Service and Technical Support

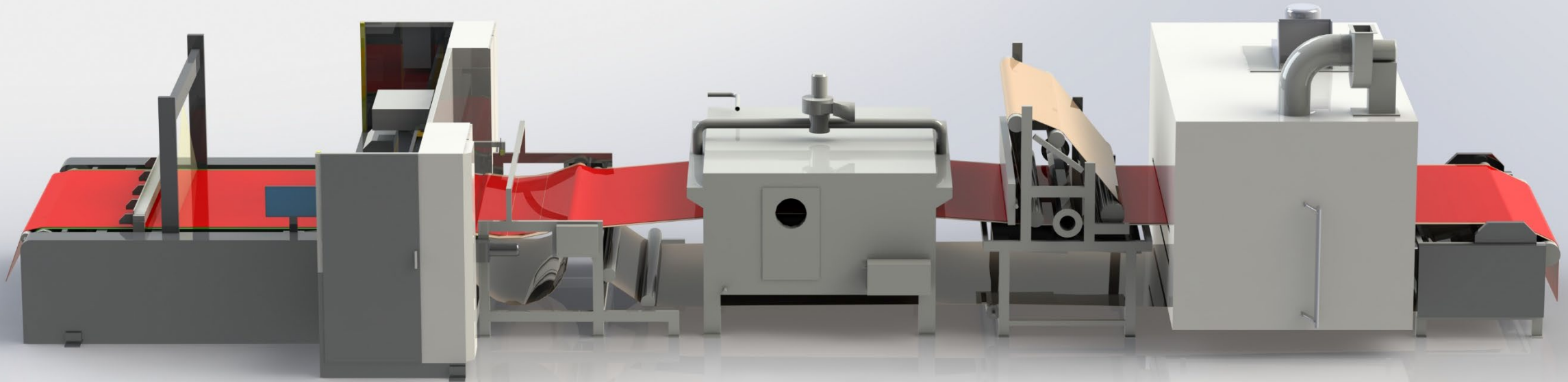


Printhead
Reconditioning Center

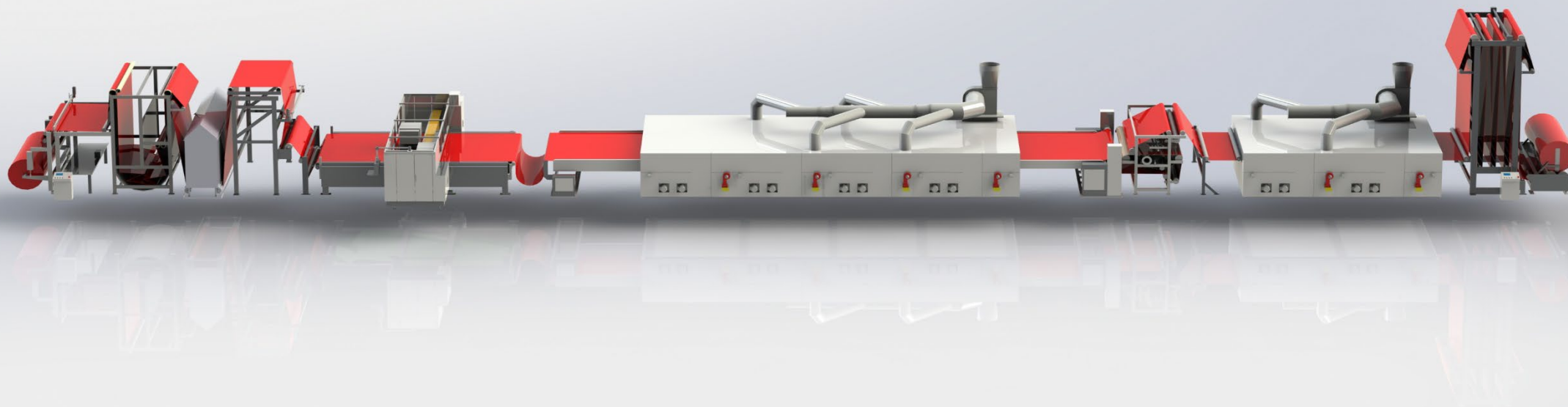


- Installation and commissioning by experienced ZIMMER installation supervisor
- Extensive, built-in diagnostic system for optimized feedback to customer's and ZIMMER service team
- Post installation support through remote service by tele-maintenance option or on-site visits by our experts
- Software support by remote update available
- Printhead Reconditioning Center at ZIMMER AUSTRIA ensures extended lifetime of printheads and reduces TCO

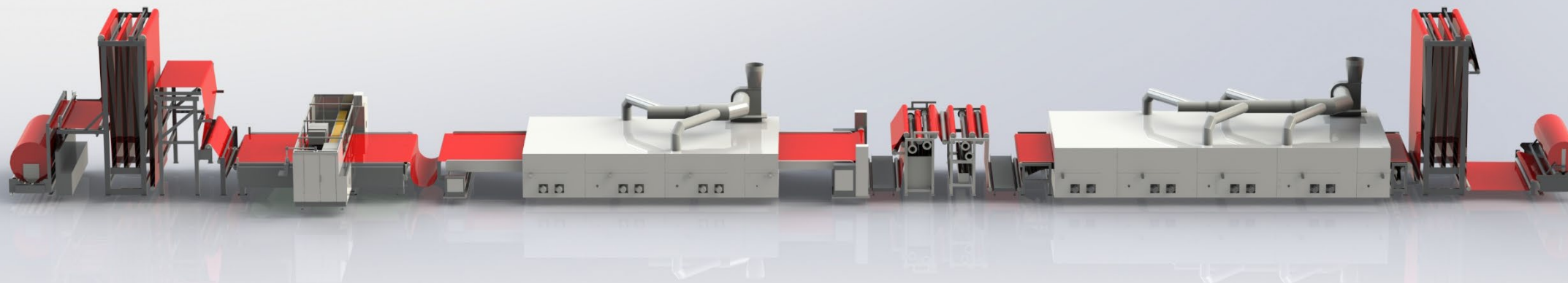
Print line mats and tiles



Print line for tufted and woven PA carpet

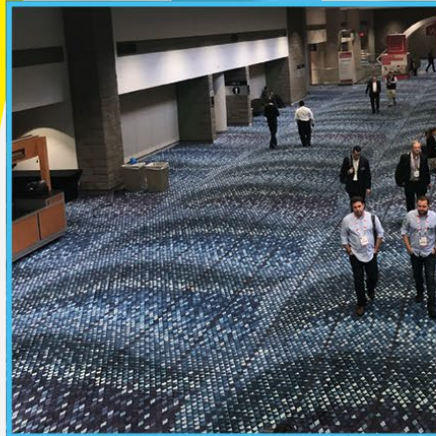


Raschel blankets and soft carpets





TEXTILE
PRINTING



FLOOR
COVERINGS



NARROW
FABRICS



TECHNICAL
TEXTILES



SPECIALITIES

INNOVATION | QUALITY | SERVICE

ZIMMER MASCHINENBAU GMBH
DIGITAL PRINTING SYSTEMS

Eibergstrasse 2-8
6330 Kufstein | AUSTRIA
+43 (5372) 64893 -0
info@zimmer-austria.com
www.zimmer-austria.com

