



# DIGITAL CARPET PRINTING & COATING

**PRECISION, PERFORMANCE AND  
LONG-TERM RELIABILITY**



**MACHINERY MANUFACTURER**

From development to lifecycle support -  
custom machines, advanced software, and  
dedicated service for your success.

ONLINE VERSION



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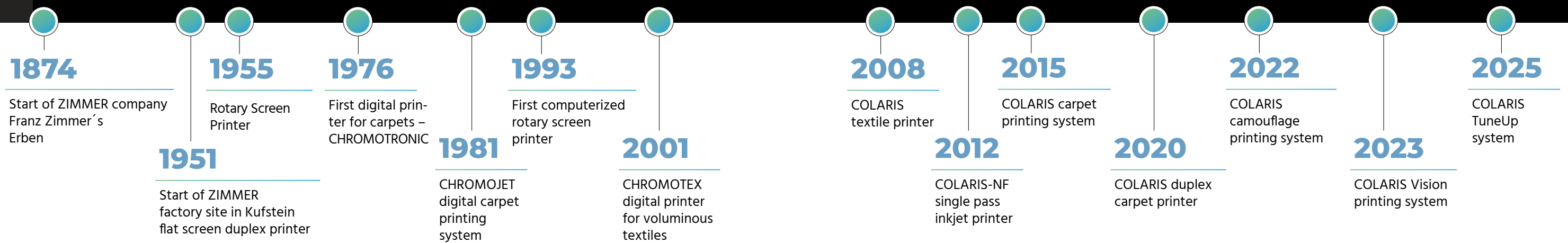
**WE CREATE.  
YOU PRINT.  
TOGETHER,  
WE EXCEL.**

**TAILOR-MADE SOLUTIONS  
FOR YOUR UNIQUE NEEDS**

Our machines and systems are as unique as your requirements. We're here to customize them to fit your vision perfectly. To bring your project to life, we need some key details. Tell us more about your end products and specific needs, and we'll get back to you with a solution that's just right for your success!

TELL US MORE





# INNOVATIVE PRINTING SOLUTIONS TAYLORED TO YOUR NEEDS

From process development to lifecycle support – custom made digital printing systems, advanced software and dedicated services for your success.

ABOUT US



## WE ARE #teamzimmer

**150+**

Years in Business

**5.100+**

Machines Globally

**2.690+**

Happy Customers

# FROM VISION TO REALITY: PRECISION AT EVERY STEP



## 1/ CUSTOMER FIRST

Your Needs, Our Challenge –  
Innovative Solutions for You



## 2/ PROCESS DEVELOPMENT

Efficiency Through Process Development –  
Tailored Solutions in close cooperation with You



## 3/ ENGINEERING & DESIGN

From Process to Perfection –  
Engineering with Industrial Excellence



## 4/ MANUFACTURING

Decades of Engineering Excellence – Your System,  
Crafted with Cutting-Edge Technology



## 5/ ASSEMBLY & COMMISSIONING

Built Twice for Perfection – Tested in Our Facility,  
Commissioned at Yours



## 6/ TRAINING

Training for Success – At ZIMMER Technology  
Center & On-Site



## 7/ MAINTENANCE & SUPPORT

Reliable Support, Anytime, Anywhere –  
Expert Service On-Site & Online

....we keep supporting you

# UNBREAKABLE PERFORMANCE PRECISION YOU CAN RELAY ON!

## PRINT SMARTER. PRINT STRONGER.

Our premium printheads feature an integrated ink recirculation system for maximum efficiency. They are engineered for the toughest industrial environments. The real game-changer? They are repairable! Extend lifespan, reduce total cost of ownership.

**Boost productivity like never before.**

## TAILOR-MADE PRINTING SOLUTIONS – BECAUSE YOUR NEEDS COME FIRST!

A ZIMMER printing system is as unique as your business – designed to meet your exact needs with precision, flexibility, and innovation.

**Your vision. Your machine. Your success.**

## FLAWLESS PRECISION – MAXIMUM PRODUCTIVITY!

COLARIS TuneUp system is the key to fully automated trajectory adjustment and banding compensation. Bring your print quality to the next level while significantly boosting productivity. Experience unmatched accuracy, seamless operation, and superior results – every time.

**Print smarter. Perform better.**

## MAXIMUM COLOR. MINIMAL RESOURCES.

Your printing efficiency is our challenge! Water and energy consumption are key factors in sustainable production. Our COLARIS SupraFix fixation and drying system delivers superior color yield, enhanced brilliancy, and deeper penetration – all while using a fraction of the energy compared to conventional multi-stage fixation systems.

**Brilliant results. Sustainable efficiency.**

# COLARIS ENGINEERED FOR YOUR SUCCESS

## SMARTER PRINTS. STRONGER IMPACT.

COLARIS digital printing systems are built around your production needs. Designed for reliability, precision, and efficiency, every system is configured to give you a clear edge over the competition.

## KEY FEATURES AT A GLANCE:

- FUJIFILM Dimatix Starfire™ printheads – modular and repairable for lower long-term costs
- ReadyJet™ technology – combined with inline degassing and advanced ink circulation for maximum uptime and minimized print defects
- Automatic carriage cleaning system – keeps printheads and carriage consistently clean
- Dynamic linear belt monitoring and correction – ensures stable, accurate motion
- Crash protection – safeguards the print carriage and critical components
- Auto printhead calibration – for perfect reproduction of recurring designs
- Easy maintenance access – fast service on heads, electronics, and key components
- Tele-Maintenance – the fast way to get back into production in case of support needs
- Optional banding compensation & calibration – for top-tier print uniformity
- COLARIS Vision System – detects fabric structures or preprinted patterns to ensure perfect registration

**Your requirements  
define the machine**

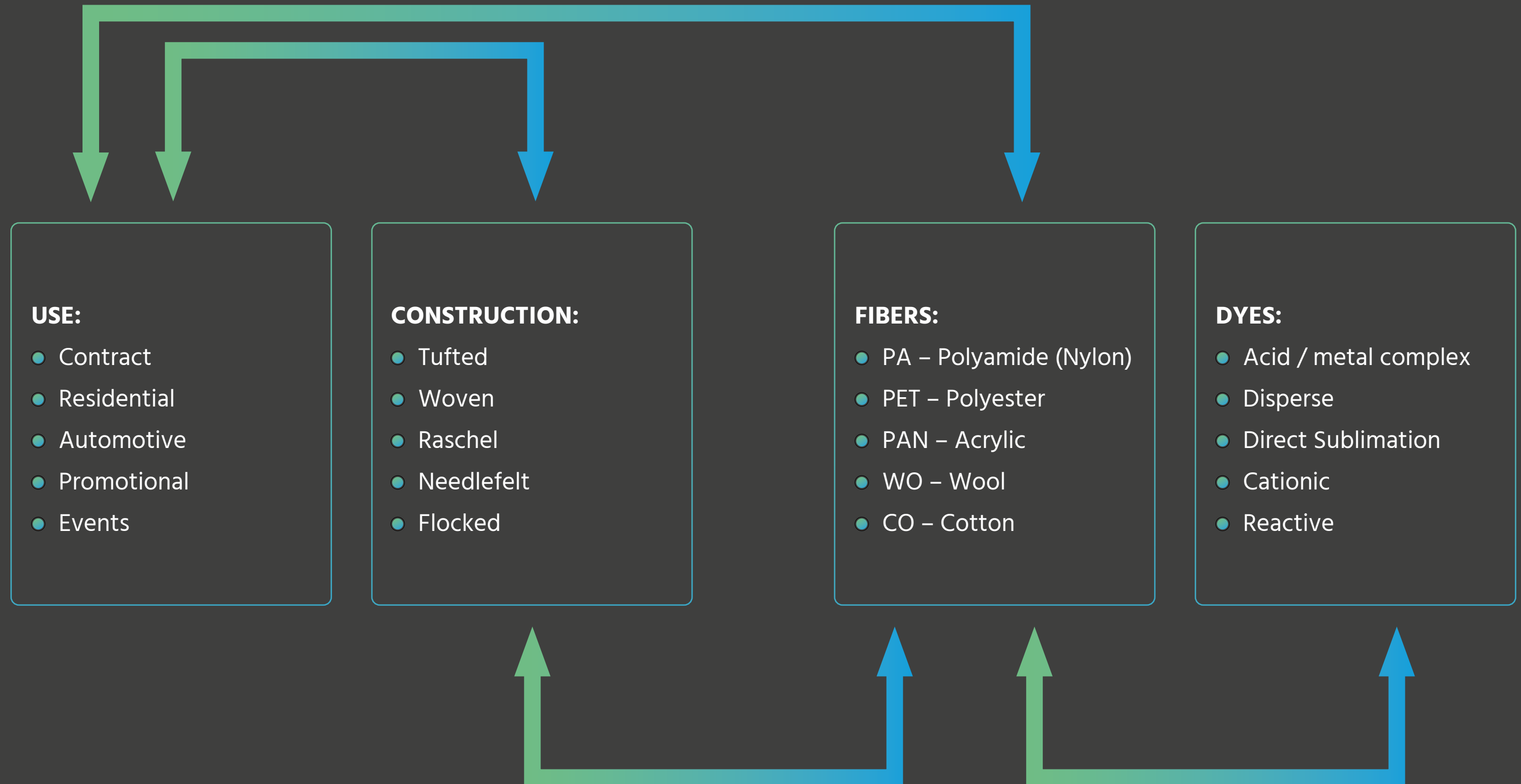


**COLARIS**  
delivers the performance.

# INK CLASSES

## AT A GLANCE

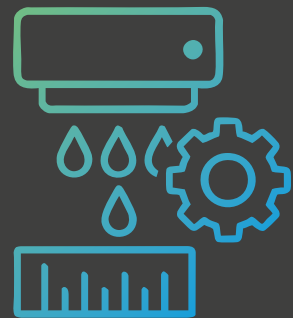
SMART INK SELECTION MEANS BETTER RESULTS AND LOWER ENVIRONMENTAL IMPACT.



# PRECISION IN DIGITAL PRINTING – EVERY DETAIL MATTERS!

Stable setup and resolution are key for true color accuracy. Our software-driven calibration ensures top print quality through linearization, precise color measurement, and ICC profiling.

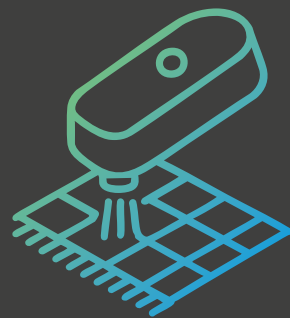
**CHOOSE PERFECTION – WITH US BY YOUR SIDE!**



## PRINTER CALIBRATION

Precision starts with data. Reliable color measurement ensures consistent, true-to-life prints across all materials and workflows.

**Precise, vibrant, and flawless!**



## COLOR MEASUREMENT

The Foundation of Precision in Digital Printing

Accurate measurement ensures true colors. L\*a\*b system guarantees consistency across all surfaces.

**Precision color measurement = predictable, repeatable, and vibrant results!**

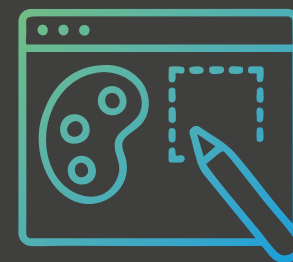


## COLOR CALIBRATION

Ensuring Consistency Across All Devices

Consistent colors need calibration. Adjust material, ink, and fixation to ensure accuracy across devices—every time!

Regular calibration means **predictable, high-quality results – every time**

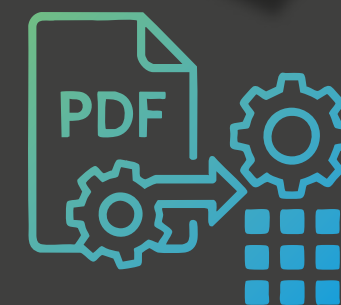


## DESIGN SOFTWARE

The Right Tools for Perfect Digital Prints

Great prints start with the right software. From Adobe Photoshop™ to Adobe Illustrator™, choose the best tool for precision and creativity.

With the right software, **your creativity meets flawless digital printing!**



## RIP PROCESS

Transforming Artwork into Print-Ready Data

RIP converts artwork into precise color channels, ensuring sharp details, smooth transitions, and accurate colors.

**Great prints start with a perfect RIP!**

# DIGITAL PRINTING – TRANSFORMING CARPET DESIGN

Carpet printing is a creative process that turns an architect's vision into reality, enhancing spaces with aesthetics and functionality. From subtle inlays complementing marble floors to bold designs for hotel lobbies, offices, museums, or airport lounges, printed carpets set the tone.

Demand for customized flooring is growing in public transport, cruise ships, and even airplanes. Events and exhibitions showcase its full potential: temporary yet impactful carpets that reflect brand identity and create unforgettable experiences.

Digital printing is the most versatile solution today, enabling complex designs with speed and precision. Manufacturers can produce wall-to-wall carpets, rugs, tiles, and personalized items like logo mats or event carpets – all with flexibility, efficiency, and outstanding quality.

**DIGITAL PRINTING IS YOUR KEY TO VERSATILE,  
EFFICIENT, AND IMPACTFUL CARPET SOLUTIONS.**

# TWO PROVEN TECHNOLOGIES ONE GOAL: PERFECT CARPET PRINTING



## PIEZO INKJET TECHNOLOGY

- Non-contact printing for ultimate design freedom
- Unlimited color combinations and scalable repeat lengths
- Ideal for complex patterns and high-resolution details
- Works with a wide range of inks for different applications



## VALVE JET TECHNOLOGY

- Robust and efficient for large-scale production
- Perfect for bold designs and solid color areas
- Flexible for carpets, tiles, and event flooring
- Proven reliability with short lead times and high output

**TOGETHER, COLARIS AND CHROMOJET OFFER  
COMPLEMENTARY SOLUTIONS – ENABLING  
MANUFACTURERS TO MEET EVERY MARKET DEMAND  
WITH PRECISION, FLEXIBILITY, AND EFFICIENCY.**

# PRINTING LINES – FOCUSED ON THE PROCESS

The printing machine is an essential tool in the workflow. Depending on customer requirements, the solution can be either a COLARIS or a CHROMOJET printing system. Both technologies serve different purposes and excel in specific applications.



## COLARIS

### PRECISION AND DETAIL

- **Ideal for:** High-resolution designs with gradients and fine structures
- **Technology:** Advanced Piezo Inkjet
- **Strengths:**
  - Perfect for intricate patterns and detailed artwork
  - Smooth color transitions and sharp details
- **Applications:** Textile flooring from needle felt to double sided printing of woven carpet rugs. Whenever designs require high resolution and maximum precision.



## chromoJET

### BOLD AND EFFICIENT

- **Ideal for:** Large-scale motifs in spot colors
- **Technology:** Jet printing with valve technology
- **Strengths:**
  - Best choice for high-pile carpets
  - Efficient for big, bold designs and solid color areas
- **Applications:** High pile carpet printing, large decorative surfaces



## AT A GLANCE – QUICK COMPARISON

| Feature     | COLARIS                              | CHROMOJET                        |
|-------------|--------------------------------------|----------------------------------|
| Design Type | Detailed, high-resolution, gradients | Large motives, spot colors       |
| Technology  | Piezo Inkjet                         | Valve Jet                        |
| Best For    | Fine structures, precision           | High-pile carpets, bold patterns |

## TECHNICAL DATA:

|                                          | COLARIS                          | CHROMOJET                     |
|------------------------------------------|----------------------------------|-------------------------------|
| Print width in mm                        | 2200 – 2700 – 3400 – 4200 – 5200 | 2200 – 2700 – 4200 – 5200     |
| Print resolution in dpi                  | 400*400 up to 800*3200           | 25 – 50 – 76                  |
| Color groups                             | 6 up to 12                       | 6 – 8 – 12 – 16               |
| Printheads per color<br>Jets per color   | 1 – 2 – 4 – 8 – 16               | 128 – 256 – 512 – 1024 – 1280 |
| Production capacity in m <sup>2</sup> /h | 40 - 1290                        | Scaleable up to 1280          |



# ACID & METAL COMPLEX PRINTING

## LINE LAYOUT ALSO SUITABLE FOR CATIONIC AND REACTIVE DYE PRINTING

### Design Freedom

- Create stunning patterns with virtually unlimited colors
- Scalable repeat length – design at any size
- From vibrant logomats for events and sports to premium contract carpets for hotels, offices, and public spaces
- Brilliant colors to make your designs stand out

### Reliable Quality

- Trusted inks combined with proven process expertise
- Outstanding fastness for demanding contract applications – rub, wash, and light resistance guaranteed
- Tailor-made solutions: stain protection, pretreatment, or full penetration up to 2000 gsm – just ask us

### Sustainable Innovation

- Decades of experience in acid printing for optimized processes
- Efficient wash cycles and advanced pre/post treatments for top quality
- Water-saving recycling systems and precise ink application for cost efficiency
- Maximum results with minimal resources

## APPLICATIONS:



### CONTRACT CARPETS

Durable, stylish, and built for high-traffic areas, commercial carpets combine performance and design to elevate any workspace.



### AUTOMOTIVE FLOORING

The cost-effective alternative for customized flooring in public transport



### RESIDENTIAL CARPETS

Plush comfort, stylish designs, and cozy warmth—perfect for low-traffic areas and enhancing home aesthetics.



### RUGS & RUNNERS

Add warmth, style, and comfort to any room—easy to place, versatile in design, and perfect for enhancing home decoration.



### DUST CONTROL MATS

Trap dirt and moisture, keeping floors clean and safe—ideal for high-traffic entrances in homes or businesses.



### CARPET TILES

Back-coating of carpet tiles improves stability, grip, and durability for secure, long-lasting performance in any space.



# DISPERSE PRINTING ON POLYESTER SUBSTRATES

## FLEXIBILITY MEETS PERFORMANCE

### Wide Product Range

- Polyester printing offers unmatched versatility – from premium woven rugs to cost-effective needlepunch carpets
- Print tufted carpets on Colaris or Chromojet, and easily adapt to trends with new options like soft carpets
- Expand your portfolio with creative solutions: kids' carpets, advertising mats, or event flooring

### Efficient Configuration

- Combine affordable yarn with advanced print technology to boost value and margins
- Proven reductive wash systems ensure top results with disperse inks and long-lasting mechanics
- Optimized processes minimize fabric humidity – saving time and energy

## APPLICATIONS:



### HOME FLOORING

Efficient carpet production for acoustic, warm living spaces in modern designs



### EVENT CARPET

Vibrant, easy-to-install flooring for red carpets, shows and special events



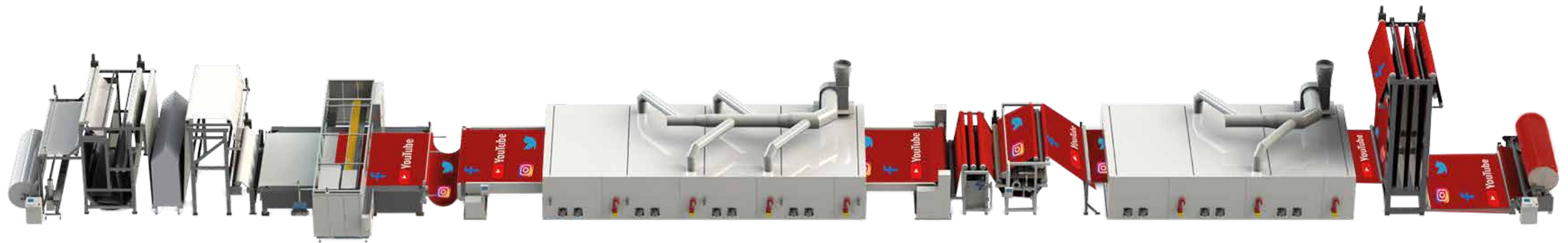
### WELCOME MATS

Custom mats for strong brand presence and a welcoming first impression



### PLAYER CARPETS

Play and kids carpets combine comfort zones with engaging entertainment



# DIRECT SUBLIMATION OR DISPERSE PRINTING FOR POLYESTER NEEDLEFELT

## HIGH-SPEED PRINTING YOU CAN TRUST

### Efficient Setup for Maximum Output

- Print at speeds up to 5.2 lm/min without compromising quality
- Minimal color groups for reduced investment and optimal performance
- Robust, proven technology ensures reliability and avoids downtime
- Precision ink application for brilliant resolution with zero waste
- Short lead times – react fast to any order size

## APPLICATIONS:



### FUNCTION CARPET

A fast, cost-effective way to visually upgrade spaces for events.



### EVENT CARPET

Durable, versatile, and low-maintenance – perfect for high-traffic zones and event flooring solutions.



### ACCOUSTIC CARPET

Acoustic flooring provides effective sound control for large, open areas.



### HEALTH & WELLNESS

Designed textile flooring adds style and comfort to wellness spaces.



# DISPERSE OR CATIONIC PRINTING FOR SOFT CARPET AND RASCHEL BLANKETS

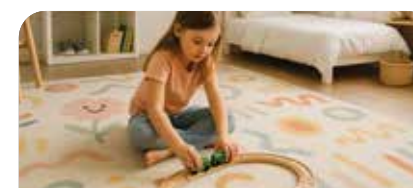
## ADD VALUE WITH DIGITAL PRINTING

### Transform your raschel carpets or blankets before brushing:

- Differentiate your products with vibrant colors and unique designs
- Achieve full fabric penetration for superior quality
- Combine the softness of raschel with the flexibility of digital printing
- Our adaptable lines integrate seamlessly into your existing production – share your plans, and we'll deliver the solution
- Match hundreds of colors and benefit from easy reproduction anytime

Both soft carpets and raschel blankets can be produced from PES or PAN yarns, with the line layout tailored to specific requirements.

## APPLICATIONS:



### RASCHEL CARPET

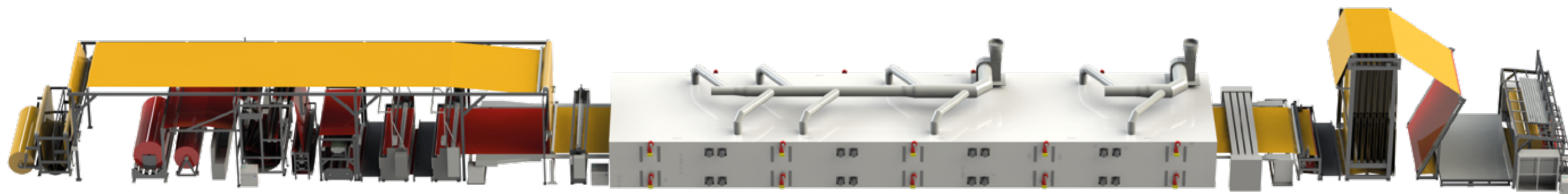
Cost-efficient production of raschel carpets with exceptional softness and warmth.



### RASCHEL BLANKET

Digital printing delivers flexible design for indoor/outdoor raschel blankets.





# SECONDARY BACKING SYSTEM

## ENGINEERED FOR STRONGER CARPET PERFORMANCE HIGH-SPEED. HIGH-PRECISION. HIGH-DURABILITY

Transform your tufted carpet production with a secondary backing system designed for maximum bonding strength, dimensional stability, and unbeatable production efficiency.

### Where Engineering Meets Performance

Our secondary backing line delivers perfect lamination between the primary carpet and Action Back fabric—every time. With intelligent tension control, precise latex application, and multi zone curing, your carpets achieve the strength and stability of your customer's demand.

### The Process – Simplified. Optimized. Superior.

#### Smart Carpet Feed-In

Perfectly aligned, tension-controlled carpet entry for wrinkle-free results from meter one.

#### Action Back Precision Unwind

Servo controlled fabric unwinding guarantees straight, stable backing at any speed.

#### High-Accuracy Latex Coating

State of the art roll-over-roll technology ensures the ideal adhesive layer — consistent, economical, and perfectly controlled.

#### Perfect Lamination

Action Back meets latex at the combining unit, bonding cleanly and uniformly across the full width.

#### Gelling & Multi Zone Drying

Pre drying stabilizes the laminate, while the energy optimized main dryer delivers rapid, homogeneous curing.

#### Cooling & Stabilizing

Controlled cooling locks in dimensional stability and prepares the carpet for finishing.

### Edge Trimming & Inspection

Precision trimming and full-width inspection ensure premium quality and defect-free output.

### Rolling or Cutting – Your Choice

Perfect roll density or clean-cut pieces — accurate, consistent, and operator-friendly.

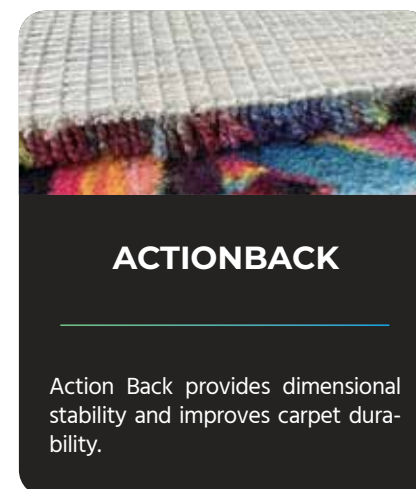
### Your Benefits at a Glance

- **Consistent Bonding Strength**  
Uniform latex application + optimized curing = rock-solid adhesion.
- **Higher Line Speed, Lower Costs**  
Efficient heat management and precise dosing reduce energy and adhesive consumption.
- **Reliable Quality – Every Shift**  
Advanced control systems keep your product stable, your process repeatable, and your customers happy.
- **Operator-Friendly & Low Maintenance**  
Smart automation and easy-to-access design keep downtime low and productivity high.

### Engineered to Perform. Built to Last.

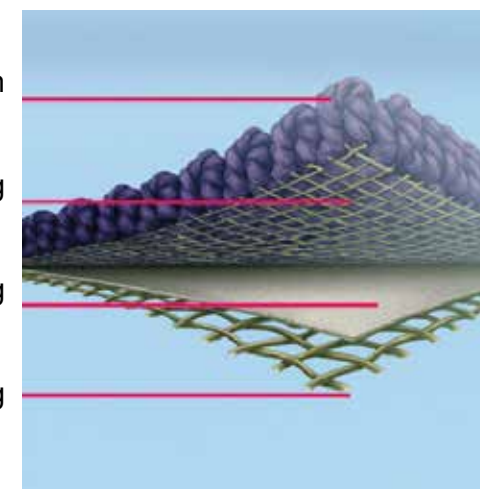
Whether you produce residential, commercial, or contract-grade carpets, our secondary backing system delivers the durability and consistency that set you apart.

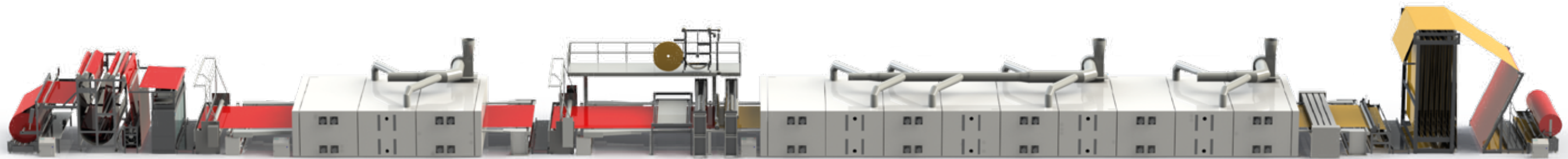
## APPLICATIONS:



Action Back provides dimensional stability and improves carpet durability.

Face yarn  
Primary backing  
SBR Latex coating  
Secondary backing





# COMBINED BACKING LINE FOR GEL FOAM AND ACTION BACK

## SUPERIOR CARPET PERFORMANCE STARTS AT THE BACK.

Give your carpets the competitive edge with a state of the art Gel Foam Backing System engineered for premium comfort, durability, and profitability.

Designed for modern production lines, optimized for efficiency, built for excellence.

### Why Gel Foam?

Feel the difference. See the performance. Sell the value.

- **Soft & Comfortable:** Adds luxurious underfoot cushioning
- **Stable & Strong:** Reinforces tuft anchorage and dimensional stability
- **Energy Efficient:** Fast gelification and optimized drying reduce production costs
- **Eco Friendly Options:** Water-based chemistry available
- **Versatile:** Suitable for bath-mats, rugs, and runners.

### How It Works – In One Smooth Flow

The Gel Foam System turns raw carpet goods into high value, premium backed flooring through a seamless, controlled process:

#### Carpet Conditioning

Cleaned, tensioned, and prepared for perfect coating.

#### Pre Coat Application

A precise latex/filler layer locks in the tufts and prepares the base for foam.

#### Even Foam Coating

Precisely controlled pre-coat application using roll-over-roll technology and a roll-over-table coating unit for the gel foam top layer.

### Gelification Zone

Pre-gelification to prepare the foam backing for embossing.

### Drying & Curing

Multi-zone dryers complete polymerization, ensure durable adhesion, and lock in the foam's comfort profile.

### Cooling & Stabilization

The carpet cools to maintain shape and prevent sticking during winding.

### Optional: Secondary Backing

Add a net, woven or felt backing for extra strength and dimensional stability.

### Finished to Perfection

Trimmed, inspected, wound, ready for dispatch – and ready to impress.

### Your Benefits at a Glance

- **Reliable production** thanks to stable foam and consistent coating
- **Higher product value** with improved comfort & durability
- **Flexibility for multiple carpet qualities**
- **Reduced rejects** due to stable gelification and controlled drying
- **Strong market differentiation** through premium feel and performance

## APPLICATIONS:



### EMBOSSING ROLLER

Embossing rollers shape 3D gel foam backings to improve walking comfort.



### CARPET WITH EMBOSSSED GEL FOAM

Embossed gel foam backing adds comfort, grip and improved durability.



# PVC BACK COATING SYSTEM

## PRECISION. PERFORMANCE. PERFECTION.

Transform your carpet production with a state of the art PVC Back Coating System designed for maximum efficiency, flawless quality, and unmatched reliability.

### Seamless Workflow – Superior Results

#### Smooth Carpet Infeed

Perfect alignment, consistent tension, zero wrinkles.  
Your production starts with precision.

#### High Performance PVC Application

Knife over roll, rotary screen or roll coating –  
choose the method that delivers your perfect layer.  
Uniform, stable, and ready for performance.

#### Optional Secondary Backing

Fiberglass, polyester fleece, woven fabrics –  
laminated seamlessly for enhanced stability and premium handling.

#### Controlled PVC Curing

In the curing oven the PVC paste turns from paste to structure.  
Clean bonding, precise formation, perfect intermediate strength.

#### Final Curing for Maximum Durability

High temperature fusion guarantees the final properties:  
strength, flexibility, dimensional stability.

#### Efficient Cooling

Controlled cooling for perfect surfaces and trouble free winding.

#### Quality That Speaks for Itself

Every meter is inspected - Every detail optimized.  
Your customers get carpets that last.

### Clean Finish & Smart Winding

Perfect edges, consistent roll build up, and packaging that protects your product.

### Why Choose Our PVC Back Coating System?

- **High productivity** through optimized heat zones
- **Uniform coating results** with precision application technology
- **Flexible configuration** for all carpet types
- **Excellent bonding** to primary and secondary backings
- **Energy efficient oven** design
- **Reliable, low maintenance operation**

### Create Carpets That Stand Out.

**Strong. Stable. Beautiful.**

Ready to elevate your production?

## APPLICATIONS:



### PVC BACK-COATING

PVC Back-Coating  
for stable carpet  
tiles



### PVC

for bonding of  
dust control mats

# LINE COMPONENTS

## MATERIAL FEEDING AT CUSTOMERS REQUIREMENT

Customized material feeding to match individual production needs



### PLAITED WEB MATERIAL

Ideal for soft carpets and raschel blankets. Ensures straight feeding, perfect centering, and optimal pile conditioning for outstanding print results.

**Accurate. Smooth. Perfect.**



### A-FRAME UNWINDER

Engineered for continuous, volume production. Minimize downtime, maximize output, and keep your print line running seamlessly.

**Fewer stops. Greater efficiency.**



### BEAM UNWINDER

Ideal for workflows with small beams and carpet substrates on cardboard cores. Perfect for short runs, ensuring smooth handling and top performance.

**Flexible. Precise. Reliable.**



### CRADLE UNWINDER

The ideal solution for heavy rolls. Multiple rolls can be preloaded on the feeder table, minimizing downtime and ensuring a smooth, continuous workflow.

**Practical. Efficient. Reliable.**



### J-BOX

Stores material to maintain continuous printing during roll changes. Increases efficiency, reduces waste, and optimizes productivity for maximum value.

**Continuous. Efficient. Profitable.**



### ROLLER COMPENSATOR

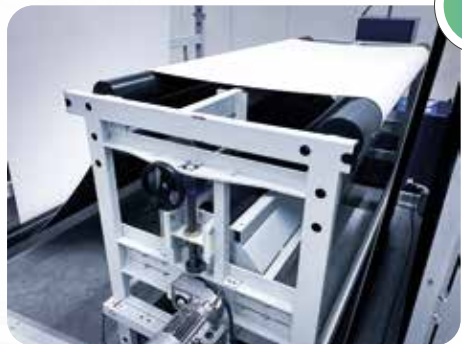
Ensure continuous material flow during printing and coating. Preventing pauses during roll changes and serve as an effective cooling section.

**Continuous. Versatile. Efficient.**

# LINE COMPONENTS

## FABRIC PREPARATION AND PRE-TREATMENT

Quality printing starts with precise material feed and pretreatment



### FABRIC CLEANING

Removes dust and loose tufting loops with systems perfectly matched to each substrate. Aligns the pile and ensures the ideal base for flawless print results.

**Clean. Aligned. Perfect.**



### PRE WASHER

Provides additional cleaning and conditions pile fabrics for improved dye uptake and distribution. Reduces dye consumption while enhancing color consistency.

**Clean. Efficient. Sustainable.**



### PRE-STEAMER

Relaxes fabric tension and lifts the pile for improved dye absorption and uniform coloration. Ensures optimal preparation for perfect printing results.

**Relaxed. Even. Ready.**



### FABRIC GUIDING SYSTEM

Centers heavy carpet substrates precisely using a pivoting frame, ensuring perfect alignment and smooth, straight running through the printer.

**Precise. Stable. Reliable.**

# LINE COMPONENTS

## CUSTOMIZED CARPET PRINTING

Printing at the core – engineered for your specific production needs.



### CHROMOJET VALVE-JET PRINTER

Available as spot color or combined spot + process color printers. Adaptable capacity with precise color kitchens for perfect results.

**Versatile. Scalable. Efficient.**



### CHROMOJET PRINT CARRIAGE

Up to 1280 nozzles per color and 12 or 16 color groups, depending on model. Built for ultimate precision, durability, and high performance.

**Accurate. Robust. Powerful.**



### CHROMOJET COLOR KITCHEN

The foundation for CHROMOJET spot, and process color printing. Ensures precise color matching and perfectly blended inks for flawless print performance.

**Accurate. Consistent. Powerful.**



### COLARIS INKJET PRINTER

Engineered for ultimate quality on all carpet materials. From small runs to large orders, achieve perfect prints, maximum efficiency, and limitless design freedom.

**Innovative. Efficient. Exceptional.**



### COLARIS PRINT CARRIAGE

The high precision core of every COLARIS digital printer. Up to 12 colors and 96 print heads deliver maximum performance, accuracy, and brilliant results.

**Powerful. Precise. Vivid.**

# LINE COMPONENTS

## DYE PENETRATION & FIXATION

Precise penetration control and efficient steam fixation for premium prints.



### PRESS STATION

Ensures maximum dye penetration and uniform color distribution in high pile carpets. Precise roller gap control prevents frosting and guarantees superior results.

**Deep. Uniform. Perfect.**



### HORIZONTAL STEAMER

Uses steam to fix dyes on PA, wool, cellulose, or cationic fibers. Ensures precise temperature control and perfect alignment at any production speed.

**Accurate. Efficient. Reliable.**



### VERTICAL STEAMER

Enhance energy efficiency through a multi stage steaming process, improving dye penetration and fixation for superior color results.

**Efficient. Deep. Brilliant. Maximum performance with minimal line length.**



### HIGH TEMPERATURE HEAT FIXATION

Specialized curing systems tailored to the substrates requirement. From hot air nozzle dryers to stenters, our aim is to deliver the most efficient and economical solution for your product.

**Customized. Efficient. Reliable.**

# LINE COMPONENTS

## POST PRINT WASHING

Efficient post-print washing for consistent, high-quality results



### WASHER 1 STEP SYSTEM

Ideal for lighter PA carpet qualities. Delivers excellent washing performance while saving water and resources.

**Efficient. Sustainable. Effective.**



### WASHER 2 STEP SYSTEM

Designed for thorough cleaning and optimal color fastness. Two precise washing stages ensure consistent results and superior fabric quality.

**Thorough. Consistent. Reliable.**



### REDUCTIVE WASHER

Multi stage washing system for PES fabrics, ensuring top level rub and wet fastness. Delivers superior post print quality and lasting performance.

**Thorough. Reliable. Effective.**



### SANDWICH WASHER

For sensitive carpets, mats, or pre cut tiles. Dual belt design securely guides material for thorough cleaning and gentle handling.

**Secure. Gentle. Clean.**



### VACUUM EXTRACTOR

Efficiently removes excess water in pre- and post-print washing stage, reducing residual moisture, saving energy use during drying process.

**Efficient. Sustainable. Powerful.**

# LINE COMPONENTS

## CARPET BACK-COATING & FINISHING

Individually configurable carpet back coating lines for premium performance



### ASCENDING WINDER

Perfect for preparing printed, washed, and dried carpet substrates for backing. Easy handling, smooth workflow.

**Reliable. Precise. Efficient.**



### LATEX PRE- AND TOP-COAT

Latex pre-coats are applied with a roll-over-roll applicator and latex top-coats are applied with a roll-over-table coater for maximum precision and minimised chemical consumption.

**Soft. Durable. Comfortable.**



### PVC COATING UNIT

It applies PVC paste to the carpet and allows optional lamination of fleece, felt or fabrics for added stability. Dust control mats are produced by reverse coating as printed mats are laid into the PVC paste.

**Strong. Stable. Reliable.**



### LAMINATION UNIT

Applies a secondary backing of fabric, fleece, or scrim using latex foam or PVC paste. Creating dimensionally stable carpets ideal for carpet tile production.

**Precise. Durable. Comfortable.**



### DRYER

Tailored drying solutions for every substrate. From hot air nozzle dryers to stenter or IR systems, we deliver the most efficient, economical, and reliable setup for your production.

**Customized. Efficient. Reliable.**



### COOLING ZONE

Ensures color stability and pile integrity by cooling carpets before winding. Guarantees reproducible results, consistent quality, and maximum material protection.

**Stable. Gentle. Reliable.**

# SPECIAL OPTIONAL FEATURES

## TILE POSITIONING SYSTEM

### SMART SOLUTIONS FOR TILE PRINTING

- Cover the tile business effortlessly with COLARIS & CHROMOJET technology and precise positioning knives for accurate results
- Handle small or large orders efficiently with our flexible tile positioning system
- Offer variety and speed – multiple colors and designs with short lead times to meet customer demands
- Print on demand and minimize storage costs while staying responsive to market trends



# SPECIAL OPTIONAL FEATURES



### SEE IT. ALIGN IT. PRINT IT.

COLARIS Vision combines advanced camera systems with intelligent software to ensure perfect print alignment – fully automated and in real time.



### VISION I

Detects the outlines of pre-cut or irregularly placed substrates and precisely adjusts design rotation, scale, and position. Ideal for custom-cut materials and free-form layouts.

# LABORATORY EQUIPMENT

## LAB SOLUTIONS – TAILORED TO YOUR NEEDS

In addition to complex production lines, ZIMMER AUSTRIA offers a versatile range of lab-scale printing and testing equipment – perfect for research, development, and training. Our systems are designed for hands-on use and deliver reliable results, whether for process optimization, sample production, or educational purposes.



### FOR PRINT HOUSES

Optimize your print processes or create high-quality pre-run samples – our lab systems are built to meet the demands of today’s printing industry with precision and reliability.



### FOR CHEMICAL MANUFACTURERS

From ink formulation to process validation – our lab equipment enables accurate testing and supports your R&D every step of the way, from concept to application.



### FOR SCHOOLS, UNIVERSITIES & TEXTILE INSTITUTES

Train, explore, and innovate with confidence. ZIMMER AUSTRIA lab systems offer hands-on experience in textile and carpet printing, coating, and finishing – ideal for education and research.

## COLARIS 12-1200T



### TECHNICAL DATA

|                     |                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------|
| max. printable size | 1200/1200 mm                                                                                        |
| printhead model     | FUJIFILM Dimatix Starfire™ nozzle versions: XSA, SA, MA, LA                                         |
| color groups        | up to 12 possible                                                                                   |
| ink setup           | 1 ink class at up to 12 colors<br>2 ink classes at up to 6 colors<br>3 ink classes at max. 4 colors |

### TECHNICAL DATA

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| working width      | 1200 mm                                                                                            |
| operation options  | for individual pieces or continuous processing                                                     |
| processing options | steam fixation for dyes, post-print washing or pre-treatment application, drying or hot air curing |
| dyestuff classes   | reactive, acid, cationic, disperse, direct sublimation, pigment                                    |

## POST-PRINT PROCESSING LINE



### TECHNICAL DATA

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| max. printing width    | 65 mm                                                       |
| printhead model        | FUJIFILM Dimatix Starfire™ nozzle versions: XSA, SA, MA, LA |
| purpose of COLARIS-IPT | ink development, ink & printheads performance testing       |
| customers              | ink manufacturers, textile and carpet printers              |

## COLARIS-IPT INK PERFORMANCE TESTER



# FULL IN-HOUSE MANUFACTURING EXCELLENCE



## FROM STEEL TO COMPLETE SYSTEMS

ZIMMER AUSTRIA operates state-of-the-art production facilities covering the entire range of machinery and plant engineering – from welded structures and precision machining to final assembly of components and control cabinets.



## HIGH- PRECISION MACHINING

Driven by the needs of textile printing technology, high-end multi-axis milling has become one of our core strengths. With machine dimensions unmatched in the region, we are a trusted partner for large-format component manufacturing.



## CONTRACT MANUFACTU- RING

To ensure optimal utilization of our production capacity, we offer high-quality contract manufacturing for various industrial partners – especially in large-scale and precision parts.



## QUALITY AND ASSEMBLY

Every component is subject to strict quality control and pre-assembly, guaranteeing maximum reliability in our machines and in projects for third-party clients.



## CONTROL CABINET ENGINEERING

We build electrical systems that comply not only with EU standards but also with the specific regulations of our customers' target countries.



## PRE-TESTED FOR GLOBAL USE

All systems are assembled and tested in-house before shipping – ensuring smooth final installation and rapid commissioning on site.

# THE HEART OF PRINTING – THE PRINTHEAD

## STARFIRE™ SG1024 – PRECISION & PERFORMANCE FOR INDUSTRIAL PRINTING

ZIMMER AUSTRIA offers four models of the high-performance Starfire™ SG1024 printhead from FUJIFILM Dimatix, designed for durability and efficiency in textile and carpet printing.

### KEY BENEFITS:

- Industrial Reliability – Built for long-term use
- Coated Metal Nozzle Plate – Abrasion-resistant
- High Firing Frequency – Maximized productivity
- 6 mm Print Distance – High drop velocity
- VersaDrop™ Technology – Binary & grayscale modes
- ReadyJet™ System – Continuous ink re-circulation prevents clogging
- Flexible Options – Four models with different drop sizes

**Starfire™ SG1024**  
**Precision. Performance.**  
**Reliability.**



# PRINTHEAD RECONDITIONING CENTER

## EXTEND PRINTHEAD LIFESPAN – REDUCE COSTS

Printheads are a major cost factor, often failing due to ink deposits or mechanical damage — not aging. Unlike conventional printheads, FUJIFILM Dimatix Starfire™ can be cleaned and restored! High-Tech Cleaning & Repair

### KEY BENEFITS:

- Advanced Cleanroom Technology – Precision tools & process-controlled stations
- Custom Cleaning & Repair – Tailored treatments for contamination & damage
- Performance Grading – Quality-rated from A to C for optimal usability

ZIMMER AUSTRIA's expert re-conditioning.

**Extend printhead life, reduce waste, and optimize performance.**



# AFTER SALES SERVICE

## SUPPORTING YOU AT EVERY STEP OF THE ENTIRE LIFECYCLE

Our service does not end with the delivery of the machine – on the contrary: we accompany you throughout the entire lifecycle. Whether maintenance, spare parts, updates, or support – our specialists are there for you, worldwide and reliably.



### TECHNICAL SUPPORT

Experienced service technicians support you with faults, maintenance and commissioning - remotely or directly on site. Fast, solution-oriented and always at eye level.



### SPARE PARTS & COMPONENTS

Original parts ensure the quality of your machine. We deliver reliably - tailored to your model and your production requirements.



### SOFTWARE & UPDATES

The latest updates ensure greater efficiency and new functions. Our systems can be updated - and our team will inform you about new features in good time.

MORE DETAILS



### Delivery

Your system is delivered ready for operation - tested, documented and ready for immediate use.

### Maintenance

Regular checks ensure performance and service life - we support you with foresight.

### Updates

Firmware and software always up to date - for efficient and future-proof work.

### Training

Our experts get your team up to speed - practical, easy to understand and tailored to your processes.

### Spare parts

Original parts, delivered quickly - for maximum operational reliability and optimum performance.

### Support

Whether remote maintenance or personal support - our service team is there for you, worldwide and directly accessible.



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# TECHNOLOGY CENTER - SPACE FOR INNOVATION

## EXPERIENCE INNOVATION, DESIGN SOLUTIONS.

High-tech meets practice in our Technology Center: this is where we develop pioneering processes, test new applications and support our customers with expertise, experience and state-of-the-art equipment.

## DEVELOPMENT & PRACTICAL TESTS

New technologies are developed at the heart of our innovation work - realistically tested on textiles, carpets and technical materials. Our systems: CHROMOJET, COLARIS and modern coating and laboratory technology.

## APPLICATION TECHNOLOGY & CUSTOMER PROXIMITY

Whether product samples, process optimization or new materials - we test customer solutions directly on original substrates. In this way, we create reliable, reproducible results for use in production.

## TRAINING & TECHNOLOGY TRANSFER

From operator training to product development: our technology center is a hub for knowledge, training and practical service - right at the pulse of our technology.



# FIND THE PERFECT TECHNOLOGY FOR YOUR BUSINESS

Digital Textile Printing

Digital Carpet Printing

Carpet Back-Coating

Digital Technical Textile Printing

Digital Military Printing

Special Solutions

OEM Manufacturing



## GET IN TOUCH

[www.zimmer-austria.com](http://www.zimmer-austria.com)

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