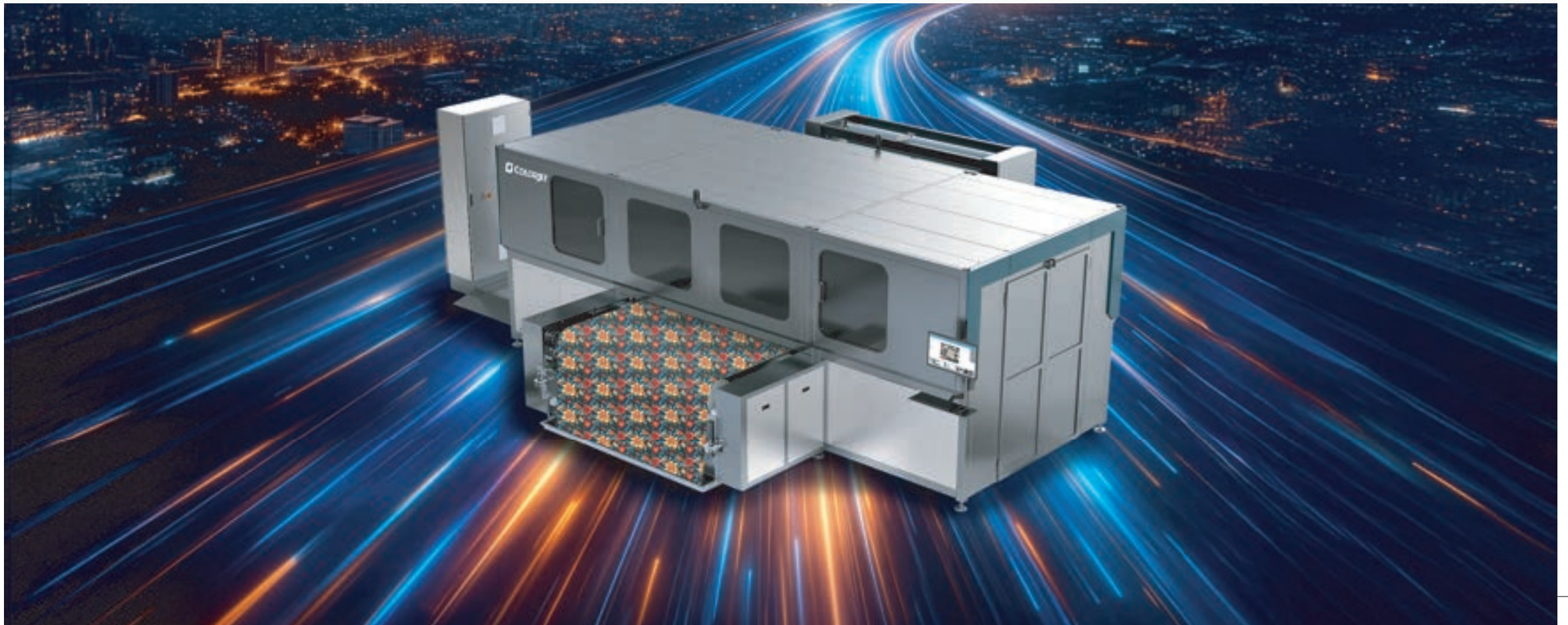


*FUTURE
RUNS ON
DIGITAL*

COLORJET
Digitalizing Textile Printing

FALCON

FUTURE IS READY. HISTORY IS MADE.
INDIA'S FIRST & FASTEST 64-HEAD DIGITAL TEXTILE PRINTER





THE NEW AGE OF DIGITAL TEXTILE PRINTING

FROM SCALING OUTPUT TO PROVIDING FLEXIBILITY

The textile printing industry is undergoing a digital transformation. From custom designs to high quality output at scale, textile printing is embracing the digital technology. Thereby, giving more room to experiment and explore the space of digital textile printing process, efficiently and effectively.

Combining industrial-scale production with precision, consistency and operational efficiency, globally, the digital textile printing is transforming the future of textile manufacturing with:

- Low carbon footprints
- Shorter production cycles
- Lower wastage
- Sharpness with precision
- Unlimited design flexibility
- Zero MOQ Constraints



TECH-ENABLED INDUSTRIAL TEXTILE PRINTING WITH FALCON

- Designed for high-speed, high-volume output
- Reactive, Disperse, Acid & Pigment ink compatibility
- Faster turnaround & consistent quality
- Smooth & silent operation
- Simplified installation management

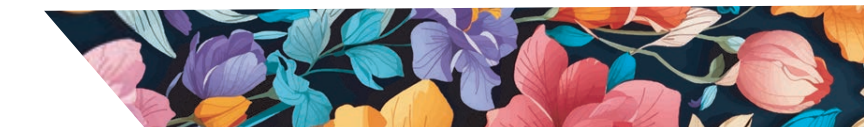
INDIA'S OWN
FIRST 64-HEAD
TEXTILE PRINTER



PRINTS UP TO
29000 sqm/day



PRINTING WIDTH OF
1900 mm








INDIA'S LEADING DIGITAL PRINTING PROCESS PROVIDER

30 YEARS OF LEGACY IN HIGH-QUALITY AND HIGH-SPEED DIGITAL PRINTERS MANUFACTURING

Founded in 1995, the ColorJet Group leads the wide-format digital textile print technology space with innovation and service. It develops globally trusted, high-performance and industrial-grade solutions built for production works in real life. Today, ColorJet stands as one of the largest digital printer manufacturers worldwide with 6000 installations.

Revolutionise the world of textile printing with ColorJet:

-  Robust performance
-  High value addition
-  Sustainable solutions
-  Quick ROI

THE COLORJET ADVANTAGE

Strong in-house R&D recognised by the Government of India

Faster turnaround time with consistent results

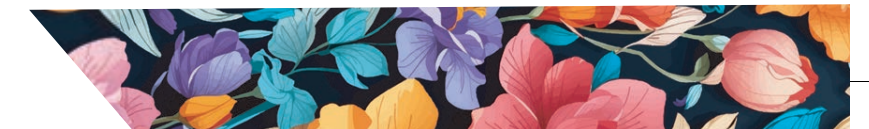
Integrated manufacturing facility under one roof

Process Driven Support System

Expertise in high-volume output

6000+ INSTALLATIONS | 55+ COUNTRIES

22+ PATENTS & 53+ TRADEMARKS | 24/7 SERVICE SUPPORT





FALCON

THE 64-HEAD HIGH PRODUCTION DIRECT-TO-FABRIC PRINTER

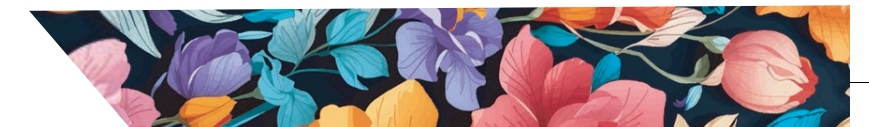
**Precision, Performance and Productivity –
without any compromise on quality output**

Built to meet the needs of the modern textile printing industry, Falcon is engineered to deliver premium quality, effortless operation and high-speed performance in one powerful machine. It is India's first 64-head direct-to-fabric printer, engineered and manufactured in India, backed by Italian engineering excellence.



Developed through extensive research, engineering and real production understanding, Falcon integrates Feeder, Printer and Dryer (standalone unit) into one seamless high-speed production line. A 12-ton machine, it combines industrial robustness, intelligent automation, advanced ink engineering, precision fabric handling and high-speed drying efficiency.

With Falcon, ColorJet is bringing a powerhouse where every component works in perfect synchronisation for uninterrupted, high-production textile printing.





ONE MACHINE FOR MULTIPLE TEXTILE POSSIBILITIES

Falcon is designed to support diverse textile printing applications including:

Woolen Fabrics



Luxury & High Apparel



Upholstery/Furnishing Fabrics



Fashion Textiles



Slub Fabrics

TECHNICAL SPECIFICATIONS

FALCON				
Model(s)		FA8647	FA8487	
Printing Technology		Drop-on-demand, Piezo Electric Inkjet		
Type of Print head		Industrial Grade Kyocera Print Heads		
No. of Print Heads		64	48	
Print Heads	Type	Industrial Grade Jetting Assemblies		
	Resolution	Up to 2400 dpi		
	Cleaning Method	Pressure Purge and Wiping		
	Wetting Control	Piezoelectric Actuators		
Inks	Types	Pigment/Reactive/Disperse/Acid		
	No. of Color	8		
	Ink Colors	CMYK + 4		
	Bulk	10 Litre Refillable Tank		
Fabric	Type	Cotton, Viscose, Polyester, Polyamide, Silk, Wool		
	Max Thickness	10 mm		
	Max Printing Width	1900 mm		
	Feed Roll Diameter	400 mm		
Printing Interface		USB 3.1		
Rip Software Supported		NeoStampa (ColorJet Edition)		
File Format		JPEG/TIFF/BMP/PDF (RGB/CMYK)		
Power Requirements (Printer Only)		400V 3Ph, 49.5kW, 50Hz		
Operating Conditions		Temperature: 24 °C ± 2 Humidity: RH of 65% ± 5		
Dimensions (Printer Only)		5353 x 8585 x 2413 mm (LxWxH) / 12000kg		
Speed (In Sqm/Hr)	Print DPI	Passes	FA8647	FA8487
Mode 1	600 x 300	1	1478	1108
Mode 2	600 x 600	2	953	715
Mode 3	600 x 900	3	631	473

DRYER OPTIONS		
Description	Option 1	Option 2
Power Req. / Max. Temperature	112 KW / 170 deg C	162 KW / 120 deg C
Heating Options	Electric + Gas or Electric + Oil	Electric + Gas or Electric + Oil
Dimension (LxWxH)	8000 x 2500 x 2970 mm	9120 x 4850 x 3420 mm

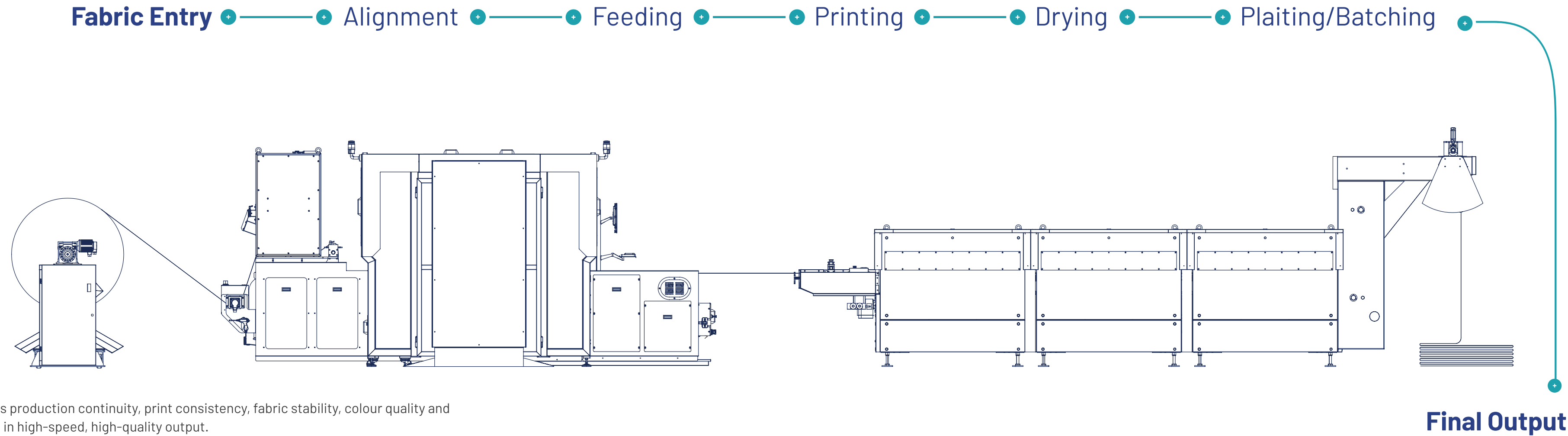
*Productivity may vary based on the type of inks, design, fabric, computer system specifications and other operating conditions



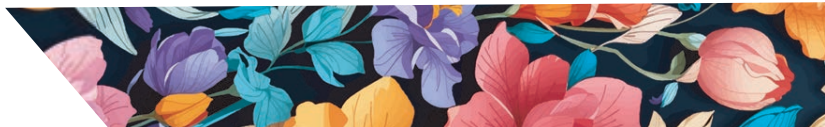


ONE INTEGRATED PRODUCTION ECOSYSTEM

FROM FABRIC HANDLING TO FINAL OUTPUT



All-in-one solution that improves production continuity, print consistency, fabric stability, colour quality and operational efficiency, resulting in high-speed, high-quality output.





ENGINEERED FOR STABILITY AT SPEED

Falcon's monolithic structure is designed to maintain equilibrium and reduce vibration during continuous high-speed operation.

Dual Boom Technology balances torsional forces generated during carriage movement.

Monolithic Frame Structure for a rigid vibration-controlled platform for accurate high-speed fabric movement.

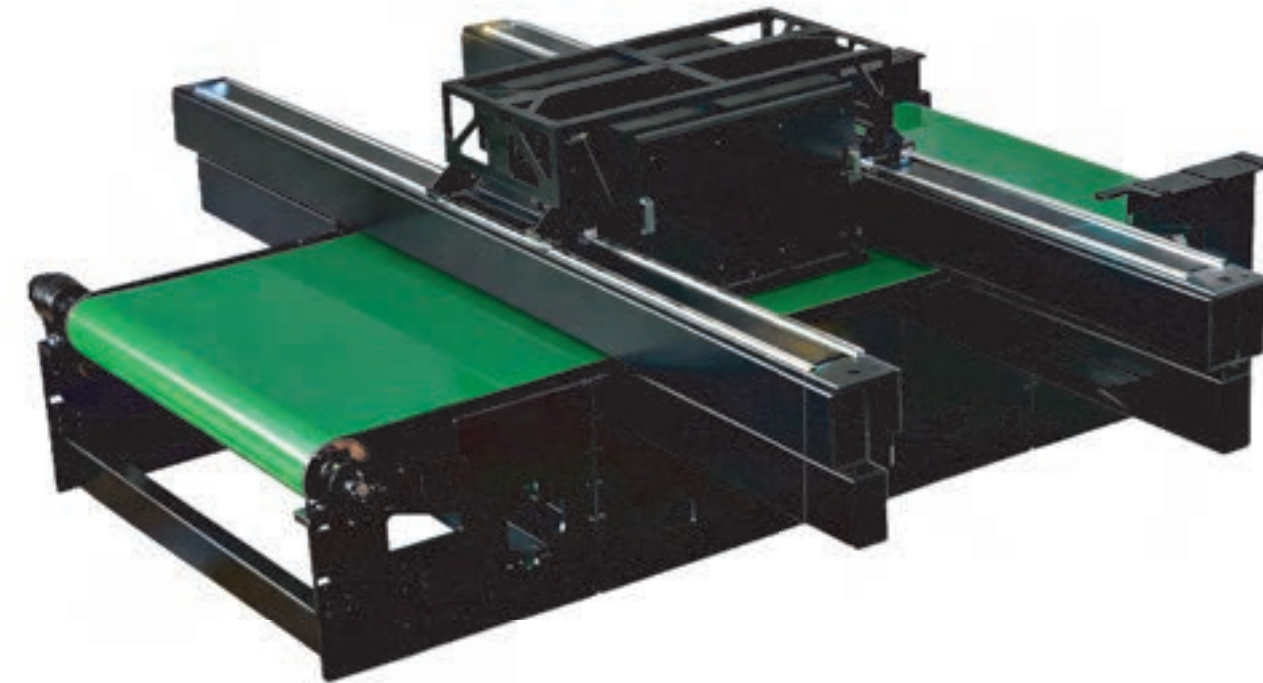
Dual Linear Motion & Linear Drive improve carriage stability and long-term accuracy.

Dual-Pole Welded Boom with Top-Mounted Motor that delivers smoother motion control with minimal shakes.

Spacious Carriage Accessibility improves maintenance efficiency and operational accessibility.

Moisture Control System prevents excess moisture accumulation on blanket surfaces. Helps eliminate tinting, print spoilage and Ink spread issues.

Environment Management System controls mist generation for cleaner production environments.



Dual Boom Carriage

PRECISION ENGINEERING FOR PRECISE OUTPUT

Shock Resistant Head Plate with registered metallurgy improves head safety and drop accuracy.

Phased Array Head Plate Design* simplifies alignment and set-up precision.

Elliptical Pin Micro Adjustment* ensures accurate head-to-head stitching.

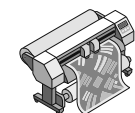
One-time Belt Tensioning Mechanism reduces maintenance complexity.

Accurate Print Blanket Tensioning System ensures uniform blanket movement.

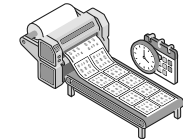
Double Wiping System improves cleaning efficiency for uninterrupted production.

*Patent

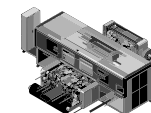
KEY BENEFITS



Precise drop placement



Long-term production consistency

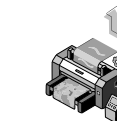


Smooth high-speed motion

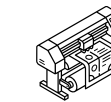


Less risk of sudden jolts

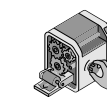
KEY BENEFITS



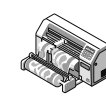
Faster setup



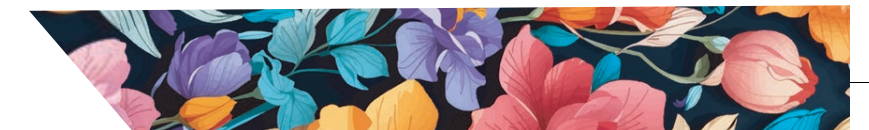
Precise and perfect alignment



Simplified tuning mechanism



Less manual effort





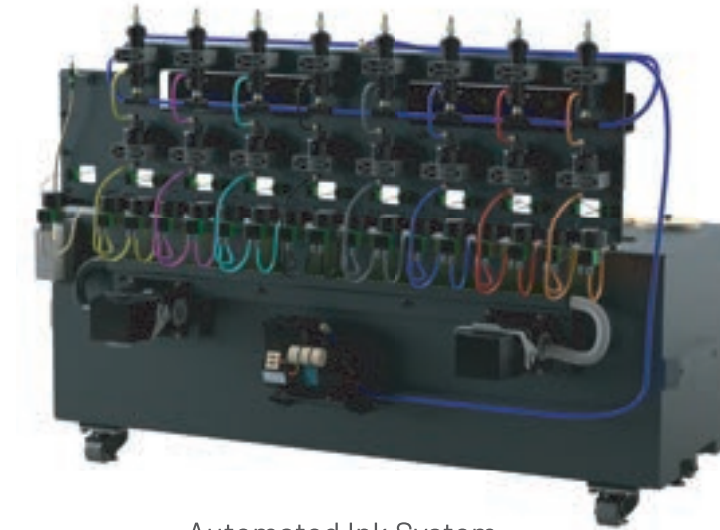
AUTOMATED INK SYSTEM UNINTERRUPTED HIGH PERFORMANCE PRINTING

9-Tank Ink Line System* simplifies ink management.

Ink Circulation Technology reduces nozzle clogging and ensure stable jetting.

Bulk Ink Supply with Degassing & Filtration Unit supports bubble-free high-speed production.

*Patent



Automated Ink System

AUTOMATIC MAINTENANCE UNIT

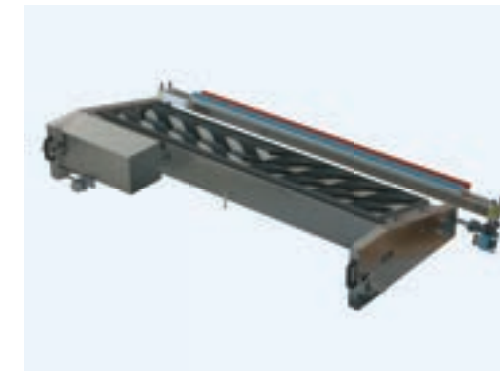
SINGLE HEAD & GROUP HEAD PURGING CAPABILITY

Reduces ink wastage, minimises manual intervention, improves nozzle health and operational consistency.

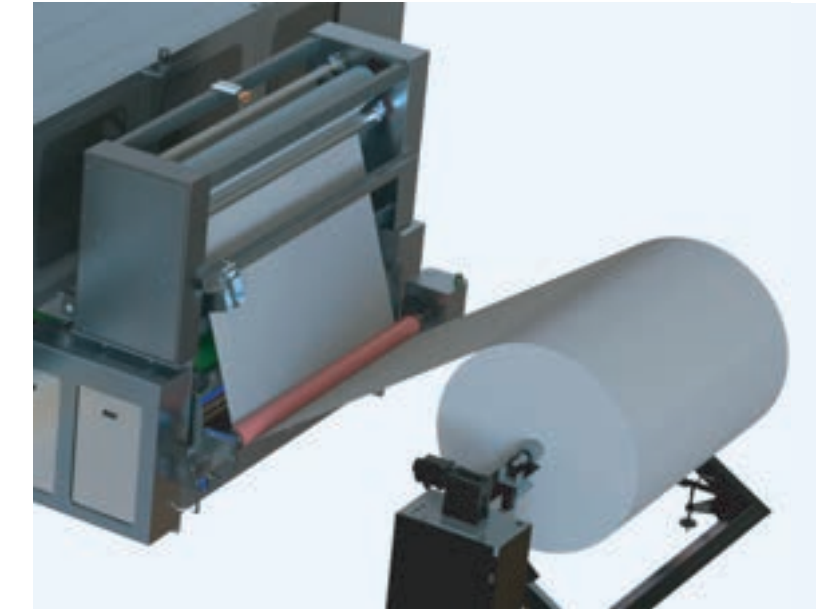
- **Proprietary Automatic Print Head Maintenance System** for effortless and cost-effective operation.
- **Wiper Blade Tilt Control and Height Adjustment** for effective belt cleaning.



Carriage



Double Wiping System



Fabric Feeder

INTELLIGENT FABRIC FEEDING FOR PERFECT PRINTING

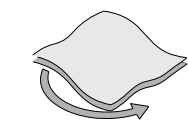
Web Centric Device with Top Entry Feeding ensures wrinkle-free feeding with precise fabric alignment.

Guide Angle Feeding Accuracy maintains stable positioning during continuous production.

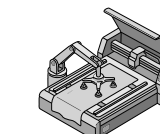
Selvage Printing brand placement and product traceability possible

Suitable for Non-woven & Knitted Fabrics supports versatile textile applications.

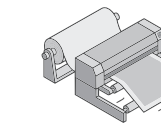
KEY BENEFITS



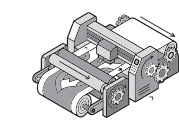
Wrinkle-free feeding



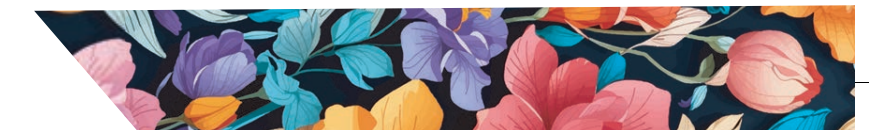
Accurate placement



Stable fabric movement



High-speed synchronisation





SIMPLIFIED SERVICE ACCESS

Falcon is engineered with a spacious carriage layout and strategically positioned service points, providing technicians quick and convenient access to critical machine components. Its service-friendly design minimises maintenance effort, reduces machine downtime, and ensures faster replacement of wear parts, enabling maximum production uptime.

SMART OPERATOR CONSOLE

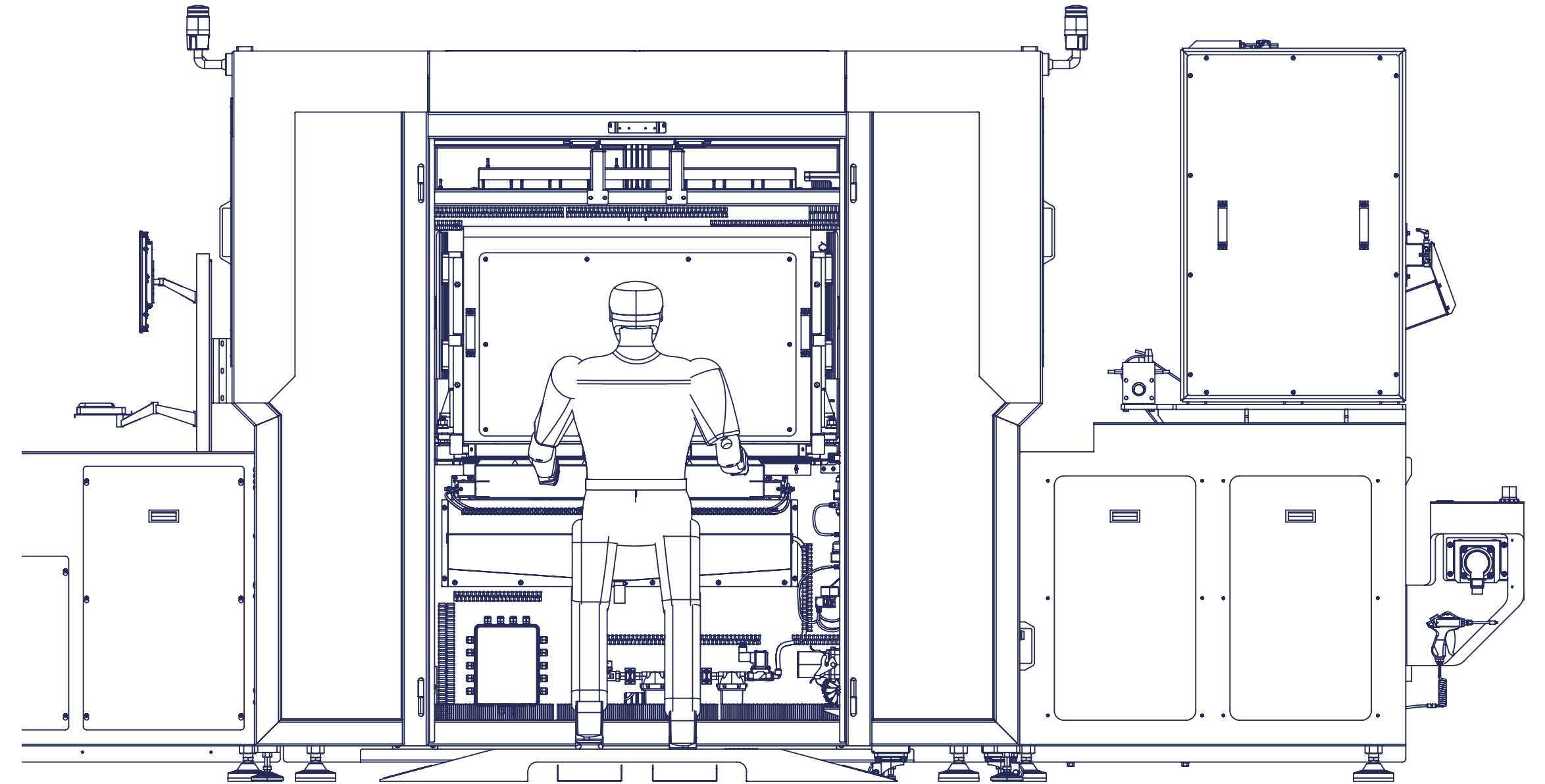
Falcon features an industrial-grade operating console that simplifies machine operation. Real-time access to production parameters, print status, maintenance functions, and system controls that enable operators to manage the entire printing process efficiently with minimal training.

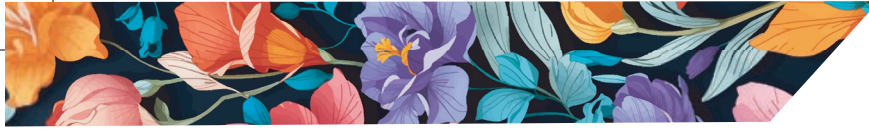
OPTIMISED DRYING FOR CONTINUOUS INDUSTRIAL PRODUCTION

Dryer Unit designed for synchronised high-speed production.

Three Conveyor Belt System ensures smooth fabric movement and uniform heat distribution.

Multiple Heating Configurations provide flexibility to choose.

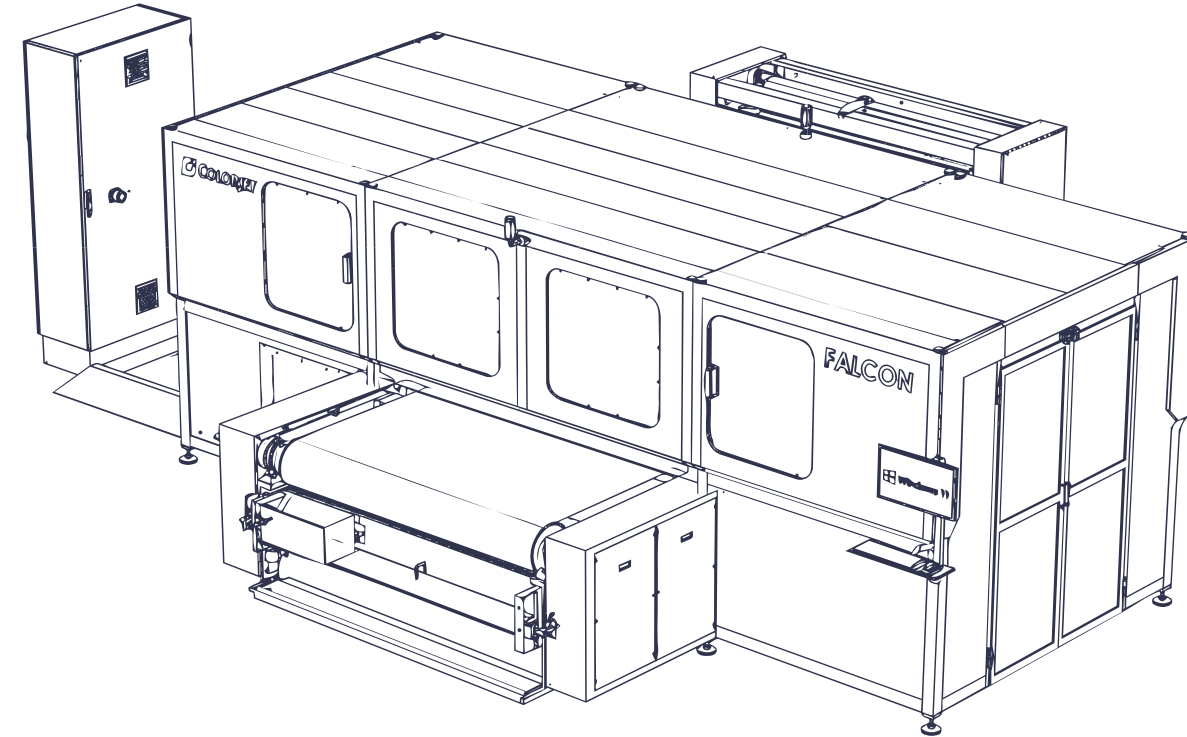




COLORJET INNOVATION LAB - WHERE FUTURE IS ENGINEERED

Printers are at the core of printing businesses and as a technology it has covered many a milestone to offer efficiency and economics. Their performance, durability and long-term value directly influence business continuity and profitability. Every innovation at the **ColorJet Innovation Lab** is focused on this understanding, and every product out of our lines reflects that commitment to our customers.

From design blueprint to the final product, every machine is ergonomically engineered using advanced 3D simulation processes and tested extensively across multiple production scenarios to ensure high quality, time and again. They are optimally engineered to deliver long-term business value, operational confidence and sustainable production performance.



COLORJET - ZED GOLD CERTIFIED

ZERO EFFECT | ZERO DEFECT



**FUTURE
RUNS ON
DIGITAL**




COLORJET
Digitalizing Textile Printing

COLORJET INDIA LIMITED

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