CARPETJET

5.2m High-performance
Digital Carpet Printing Solution.

With a Massive Production Capacity of 7500 sqm/day

CarpetJet is engineered to revolutionize productivity in digital carpet printing. Delivering an impressive print speed of up to 375 sqm/hr, it features industrial-grade print heads and eco-friendly water-based disperse inks optimized for polyester-based carpets. Designed for precision, efficiency, and sustainability, CarpetJet ensures exceptional print quality across a wide range of carpet applications - from decorative to commercial flooring solutions.

KEY HIGHLIGHTS

Wide-format Capability
5.2m printing width, ideal for large carpets and rugs.

High Productivity
Up to 375 sqm/hr, significantly boosting throughput.

Reduced Downtime
Anti-static and anti-crash systems for nozzle protection.

Color Depth & Quality
Excellent penetration and vibrant color reproduction with special disperse inks.

Versatile Applications
Residential, commercial, and customized carpet designs.

Color Options
Available in 4-color (CMYK) and 8-color (CMYK+4) setups

BUILT FOR HEAVY MEDIA.
DESIGNED FOR UNINTERRUPTED PERFORMANCE.

• **Media Handling System -** A precision mesh conveyor–based feeding system ensures stable handling of heavy and thick materials. The 6-zone independent vacuum bed maintains uniform tension and flatness, with selective zone activation for narrower widths, while the pressure roller system ensures smooth, slip-free media movement during long production runs.

• **Roll Handling Capability -** An in-built roll feeder with compatibility for external jumbo roll attachments enables long, uninterrupted, unattended printing cycles.

• **Protection & Reliability -** An anti-static system prevents static charge buildup for smooth media handling and nozzle protection, while the anti-crash mechanism safeguards print heads to ensure consistent print quality.

• **Ease of Maintenance -** On-demand pressure purge and wiping systems reduce manual maintenance, prevent nozzle clogging, and ensure uniform ink ejection even after idle periods. Easy-access panels and a modular head carriage simplify routine servicing and calibration.

• **Operational Excellence -** Designed for continuous industrial operation, the system delivers an optimal balance of speed, precision, and reliability. An intuitive user interface provides real-time monitoring of ink levels, vacuum zones, and key printing parameters.

COLORJET
Digitalizing Textile Printing

Industrial-Scale Digital Production Platform

SPECIFICATIONS

CARPETJET			
Model	**PC8484**	**PC8324**	**PC4164**
Printing Technology	Drop-on-demand, Piezo Electric Inkjet		
No. of Print Heads	48	32	16
Print Heads — Type	Industrial Grade Jetting Assemblies - KM 1024i		
Print Heads — Resolution	Upto 1440 DPI		
Print Heads — Height Adjustment	Upto 30mm		
Print Heads — Cleaning Method	Pressure Purge and Wiping		
Print Heads — Wetting Control	Piezoelectric Actuations		
Inks — Types	Disperse		
Inks — No. of colors	8		4
Inks — Supply	10 Ltr, Bulk Ink Supply System with inline degassing and low ink alarm		
Media — Types	Polyester Based Carpets		
Media — Max. Thickness	Upto 10mm		
Media — Max. Width	5200mm		
Media — Roll Width / Diameter	750mm		
Printing Interface	USB 3.1		
RIP Software Supported	ONYX / NeoStampa (Colorjet Editions)		
File Format	JPEG, TIFF, BMP/PDF (RGB, CMYK)		
Operating Conditions	Temperature: 20 to 28°C Humidity: 65±10% RH (non-condensing)		
Power Requirements	220V, 20KW Single / Three phase load distribution, 50Hz		
Printer Dimension / Net Weight	1930 x 7850 x 1650 mm (LxWxH) / 5100 Kg Approx.		
Feeder Unit Dimension / Net Weight	1000 x 5500 x 1500 mm (LxWxH) Approx.		
Color Fixation/Takeup System	Take-up should be with the dryer, and the dryer should be customized and optional based on customer application/requirements		

Speed In (Sqm/hr)	Print DPI	Passes	PC8484	PC8324	PC4164
Mode 1	360x720	2	375	250	260
Mode 2	360x1080	3	250	183	195

*Actual speed may vary based on application and future developments

Design for Precision
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For more info, scan QR code