

# CARPETJET

5.2m High-performance  
Digital Carpet Printing Solution.

With a Massive  
Production  
Capacity of 7600 sqm/day



CarpetJet is engineered to revolutionize productivity in digital carpet printing. Delivering an impressive print speed of up to 380 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 380 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.

# Industrial-Scale Digital Production Platform

## SPECIFICATIONS

CARPETJET						
Model		PC8484	PC8324	PC4244	PC4164	
Printing Technology		Drop-on-demand, Piezo Electric Inkjet				
No. of Print Heads		48	32	24	16	
Print Heads	Type	Industrial Grade Jetting Assemblies - KM 1024i				
	Resolution	Upto 1440 DPI				
	Height Adjustment	Upto 30mm				
	Cleaning Method	Pressure Purge and Wiping				
	Wetting Control	Piezoelectric Actuators				
Inks	Types	Disperse				
	No. of colors	8		4		
	Supply	10 Ltr, Bulk Ink Supply System with inline degassing and low ink alarm				
Media	Types	Polyester Based Carpets				
	Max. Thickness	Upto 10mm				
	Max. Width	5200mm				
	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	PC4244	PC4164
Mode 1	360x720	2	375	250	380	260
Mode 2	360x1080	3	250	183	259	195

\*Actual speed may vary based on application and future developments

Design for Precision  
**CARPETJET**

