KODAK STREAM INKJET TECHNOLOGY



KODAK PROSPER PLUS IMPRINTING SYSTEM

MAKE YOUR EXISTING PRINT PRODUCTION DIGITAL

Generate opportunity with hybrid digital printing

The KODAK PROSPER Plus Imprinting Systems enable offset, flexo and gravure printers to integrate the power of digital print within existing pressroom and finishing operations. Versatile PROSPER Plus Systems are ideal for imprinting monochrome or four-color content. Enhanced registration and stitching options available with PROSPER Print Bar configurations to create less manual intervention and seamless print quality for the most demanding applications.

Kodak's proprietary nanotechnology water-based EKTACOLOR Inks provide compelling economics, exceptional versatility and the most eco-friendly option for production inkjet printing, having passed US and European certifications for food safety, direct skin contact, and food service products.

Leverage the power of digital

KODAK PROSPER Plus Imprinting Systems drive profit potential with powerful features:

Capitalize on new opportunities: PROSPER Plus Imprinting Systems enable you to combine high-quality offset printing with partial- or full-page 100% variable content in one easy step, so you can produce customizable promotions or packaging and attract new sources of revenue.

Built-in flexibility: Depending on the configuration, a system can include up to 12 print stations and 24 printheads. PROSPER Plus Imprinting Systems can be easily integrated using Kodak or third-party solutions. Additionally, movable by design, Kodak PROSPER Plus adapts with your press room—maximizing current workflows while opening the door to new business.

Offset class output: With the reliability, productivity, cost of ownership and quality of offset, PROSPER Plus Imprinting Systems and PROSPER Print Bar add customized content to in-line production without the need for additional off-line laser printing.

The benefits are compelling

State-of-the-art inkjet PROSPER Plus Imprinting Systems significantly deliver business-building value in three key areas:

Productivity

- Production-ready digital imprinting designed to run as part of the line, not alongside it
- Matches traditional press and finishing speeds to keep production moving
- Consistent, repeatable output across long runs and multiple shifts
- High-uptime, industrial design for demanding production environments
- Extend the life of current equipment assets

Innovation

- Add value through versioning and variable data
- Make packaging a physical touchpoint to digitally connect with consumers
- Unleash creative flexibility with color palettes and substrates
- Get to market faster with new ideas

Sustainability

- Environmentally-friendly water-based EKTACOLOR Inks comply with indirect food contact regulations
- Reduce waste vs. traditional printing

Drive business growth across a broad range of applications by integrating cost-effective, productive, high-quality and versatile PROSPER Plus Imprinting Systems.

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Print Station Function

A print station houses the electronics and software that manage the pumps, valves, and filters that control the flow of ink, replenisher, and cleaning fluids for the continuous inkjet printheads. It also controls various physical properties of fluids—including temperature, pressure, and ink concentration.

Print Station Physical Dimensions

Height: 1025 mm (40.4 in)
Width: 585 mm (23 in)
Power: 200-240 VAC 50/60 Hz 10 amps (S30 = 30 amps)
Depth: 655 mm (25.8 in)
Weight: 125 kg (275 lbs)

Printhead Interface Controller Function

Each print station supports one or two Printhead Interface Controllers (PICs). A PIC box contains the electronics, software, and fluid connections for driving a single inkjet printhead.

Printhead Interface Controller Physical Specifications

Height: 616 mm (24.3 in)
Width: 180 mm (7.1 in)
Depth: 243 mm (9.6 in)
Weight: 15 kg (33 lbs)

Smart Linehead Functionality
Featuring 3 types of stitching algorithms

Mounting

PROSPER Plus Imprinting Systems can be mounted on web widths of 203.2 mm (8 in) to 1524 mm (60 in) using Kodak and qualified 3rd Party Tower/Carriage/Dryer solutions from 1 to 8 printhead rails.
For more configuration options, check out KODAK PROSPER Print Bar.

	PROSPER PLUS 5	PROSPER PLUS 10	PROSPER PLUS 20
Speed		**Resolution (dpi)**	
152 mpm (500 fpm)	900, 600	N/A	N/A
200 mpm (650 fpm)	N/A	900, 600, 400, 300, 200	900, 600, 400, 300, 200
300 mpm (1000 fpm)	N/A	600, 400, 300, 200	600, 400, 300, 200
450 mpm (1500 fpm)	N/A	N/A	300, 200
600 mpm (2000 fpm)	N/A	N/A	N/A

Drop Size: 11.4 pL and 9.8 pL

Printheads

- Printheads are replaceable components that connect to PICs through a simple slide-on mechanism.
- Data can be split electronically between up to four print heads using the same controller.

Physical Specifications

Height: 70 mm (2.8 in)
Width: 155 mm (6.1 in)
Depth: 90 mm (3.5 in)
Weight: 1.65 kg (3.6 lbs)
Print Width: 105 mm (4.16 in)

Umbilicals

A PIC connects to the body of the print station through one umbilical.

Electrical/fluidics umbilical:
Length: 11.978 mm (39.3 ft)
Diameter: 44 mm (1.75 in)
Weight: 20 kg (44 lbs)

Environmental Operating Ranges

For environments with 10% to 60% relative humidity non-condensing, temperature range is 16°C - 40°C (60.8°F - 104°F)
For environments with 90% relative humidity non-condensing, temperature range is 16°C - 30°C (60.8°F - 86°F)

Drying

Recommended drying setup:
• ADPHOS NIR inkjet drying systems or other equivalent for most applications.

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