

NIRVANABELT

INNOVATION SERIES



The Game Changer:
high **fastness** and **vibrant printing**
without pre or post treatment on **all fabrics**



www.optimumdigital.com





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Optimum's flagship industrial belt digital printer configured for waterless pigment printing on a variety of elastic and non-elastic fabrics. This 81" (205cm) belt printer comprises the industry's leading technology to provide industrial speeds and reliability for continuous printing. This printer is now available globally, with all required components included.



Nirvana Belt printing system is empowering textile manufacturers to achieve the quickest 'print runs' in the industry.

Optimum Pigment ink eliminates the need for steaming and washing. Water use and wastewater pollution is fully eliminated in accordance with the highest certifications available in the industry including OEKO TEX, GOTS, GREEN TO WEAR and more.

Eliminates the need for pre and post care, reducing the investment required to run the textile operation.

One ink type for all fabrics, ranging from natural to synthetic variations and mixes.

With the improved formulation, the hand-feel and vivid colors are more impressive than ever before.





Machine Features

- ✓ Smart automatic head cleaning system
- ✓ Separate industrial drying system included
- ✓ Industrial sticky belt activated with heated press roller
- ✓ Integrated spiral belt brushes to eliminate dirt build up
- ✓ Aluminium frame and double carriage rail
- ✓ Integrated industrial fabric feeding system
- ✓ Safety trigger system for printhead protection
- ✓ Closed design system for safe operation and reduced noise
- ✓ Magnetic linear motor rail for smooth carriage movement
- ✓ Large carriage for up to 32 heads in 4 rows

Printing Features

- ✓ Up to 8 colors per row for vibrant and colorful prints
- ✓ Easy to use practical washing unit for reduced down time
- ✓ Potential for uninterrupted 24/7 printing operations
- ✓ Low vibrations from strong frame for accurate dotting
- ✓ Reliable 1-pass printing at 330 linear meters / h
- ✓ Spare-parts and inks inventory at all locations
- ✓ In-house color specialist for customized color profiling



GREENGUARD Certificate



OEKO-TEX Certificate



GOTS Certificate



GREEN TO WEAR Certificate

Technical Specifications

Default Printhead	Konica Minolta / Kyocera	Variable Drop	5 pl - 13 pl
Printhead Options	4 / 6 / 8 / 12 / 16 / 24 / 32 (max 4 rows)	Color Options	4 colors - 6 colors - 8 colors
Ink Compatibility	Eco-Pigment, Pigment, Disperse, Reactive, Acid, Sublimation	Ink Tank System	Built-in 5kg capacity External unit 20kg (optional)
Max Print Width	205cm (80.7") , 320 cm (126")	Fabric Type	Knitted,woven lycra and nonlycra
Fabric Drying System	Gas based, Electric based	Fabric Feeding System	Included Feeding System
RIP Software	Neo-Stampa Optimum Digital Special Edition Caldera Textile Pro Enterprise	Max Fabric Weight	160cm diameter / 62.9" diameter
		Graphical User Interface (GUI)	ODP Print 2
Power Requirements	Single phase 220VAC 25A (for machine) Three phase 380VAC 32A (for dryer)	Compressed Air	0,6 MPa @ 2L / min
Printer Dimensions	502cm x 215cm x 192cm		197" x 85" x 75"
Net Machinery Weight	2,800kg		6,173lbs
Net Machinery Weight (with included optionals)	5,200kg		11,460lbs

NIRVANABELT 32 Printheads

1.5 m Fabric

Speed in linear meters / h

Draft Mode (1 PASS)

360 x 360 DPI

Draft Mode (2 PASS)

360 x 360 DPI

Production Mode (2 PASS)

360 x 720 DPI

Production Mode (4 PASS)

360 x 720 DPI

Quality Mode (3 PASS)

360 x 1080 DPI

Quality Mode (6 PASS)

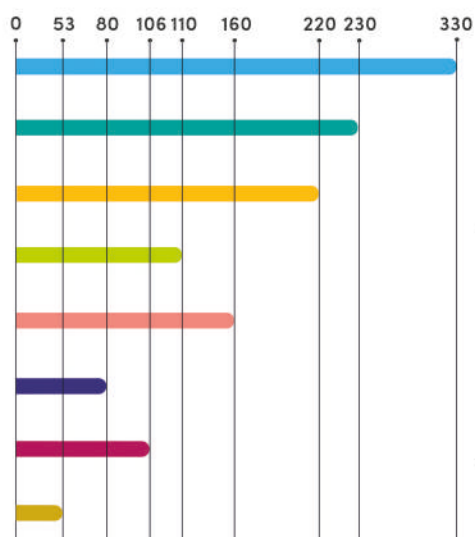
360 x 1080 DPI

High Quality Mode (4 PASS)

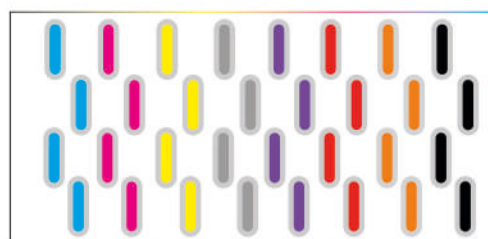
720 x 720 DPI

High Quality Mode (8 PASS)

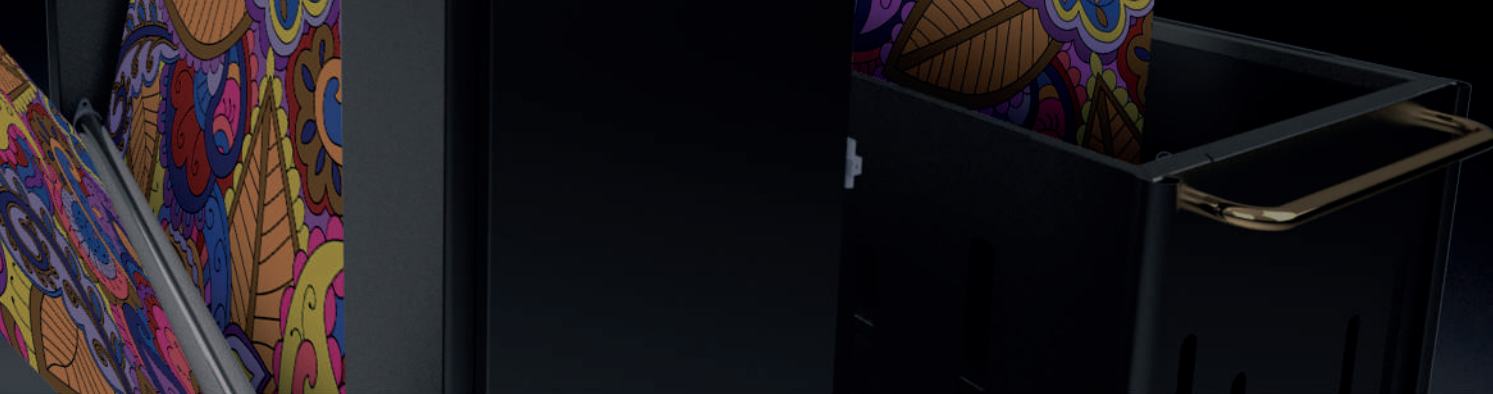
720 x 720 DPI



8 Colors / 32 Printheads



*Above calculations are for reference only. Speeds may vary based on fabric, ink set and other external factors.



Waterless Printing

Safeguarding our planet one print at a time

Optimum Digital continues to make progress for its 2025 Green Printing goals with the release of the new NirvanaBelt Waterless series.

With the latest pigment ink and streamlined machinery, Waterless no longer requires pre and post treatment to achieve comparable colours and fastness. Completely eliminating traditional water requirements and wastewater pollution, as well as achieving the quickest 'print runs' in the industry.

Revolutionising the accessibility to environmental industrial digital printing



Saving more than 30 million litres of water a month for a medium size factory



Quickest print runs in the industry mean less fabric wasted and more flexibility



Highest environmental certification in the industry including OEKO TEX, GOTS, GREEN TO WEAR and more



Print eco-friendly with reduced production costs and affordable machinery



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Global Guarantee by Optimum Digital

