

Specification

Printing speed	1.85m	335m ² /hr (175m/hr)	220m ² /hr (115m/hr)	133m ² /hr (72m/hr)	120m ² /hr (63m/hr)	80m ² /hr (42m/hr)
	1.6m	310m ² /hr (195m/hr)	200m ² /hr (125m/hr)	120m ² /hr (76m/hr)	110m ² /hr (70m/hr)	72m ² /hr (45m/hr)
Printing resolution		600 x 600dpi 1Pass	600x600dpi 2Pass	600x1,800dpi 3Pass	600x1,200dpi 4Pass	600x1,800dpi 6Pass
Maximum printing width	1,850mm					
Maximum fabric width	1,900mm					
Maximum fabric load	Diameter : 400mm, Weight : 150kg / Jumbo unwinder option-Diameter : 1,000mm, Weight : 1,000kg					
Printing mode	Bi-Direction / Uni-Direction, Normal / Interleave, DBF					
Print head	Kyocera print heads (16 units)					
Color	Reactive ink	4 Color (Y, M, K, C) / 6 Color (Y, R, O, M, K, C) / 8 Color (Y, R, O, M, K, B, Gy, C)				
	Pigment ink	8 Color (Y, R, O, M, K, Gr, V, C)				
Ink	DGI genuine reactive ink / DGI genuine pigment ink					
Rip software	Ergosoft 16, Inedit, Caldera (Separate purchase)					
Interface	RS-232, USB 3.0					
Environment	Temperature : 20~28°C Humidity : 40~60% Environmental influences can affect print quality					
Compressed air	Minimum 5kgf/cm ²					
Electricity	Printer : Single phase 220V (50/60Hz, AC), 25A Lower heater : Single phase 220V (50/60Hz, AC), 20A Reactive ink dryer : 3 Phase 380V (50/60Hz, AC), 73A Pigment ink dryer : 3 Phase 380V (50/60Hz, AC), 28A					

※ Specifications are subject to change without prior notice

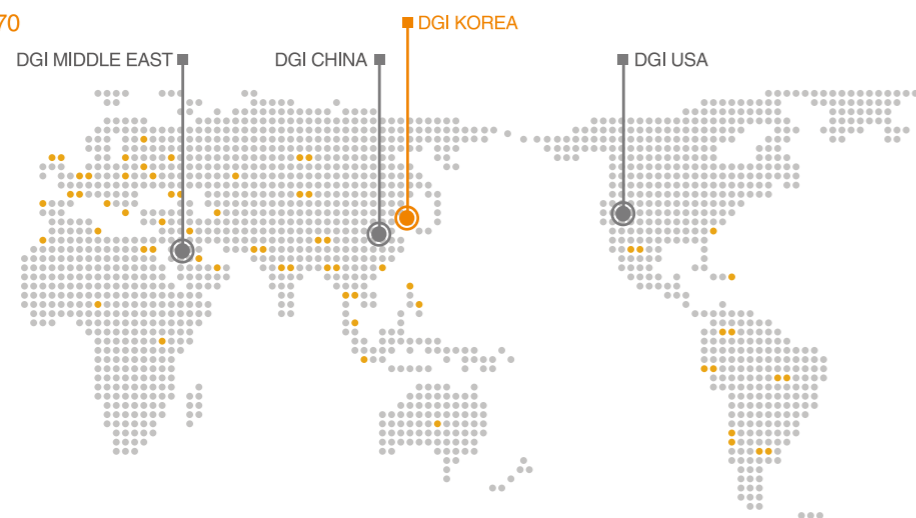
Dimension & Weight

	Before packing				After packing			
	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Printer	5,172	2,441	1,865	2,800	5,400	2,280	2,250	3,350
Reactive ink dryer	3,800	6,550	2,870	3,850	4,000	2,280	2,300	4,770
Pigment ink dryer	3,764	2,200	1,730	1,470	3,950	2,300	2,100	1,920

Sales network

Overseas branch : 3

Overseas sales agent : 70



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APOLLON

DIRECT TEXTILE PRINTER

The new standard of
high speed printing



High speed print mode (600x600dpi) 335m²/hr
Production mode (600x1,200dpi) 120m²/hr

APOLLON

DIRECT TEXTILE PRINTER (REACTIVE INK)

Over High precision & limit of high speed printing

APOLLON is a next-generation digital 1.9M direct textile printer that is equipped with 16 (industrial high-speed) Kyocera printer heads and enables high-quality, high-speed production.



Excellent productivity with high precision & high speed

- Realization of maximum speed of 335m²/hr (600x600dpi, 1 pass) through application of 16 Kyocera heads
- Recommended production speed 120m²/hr (600x1200dpi, 4 pass)
- Securing high-speed precision through the application of magnetic linear motor system



Improved print quality

- Securing high-quality printing and head stability by applying dedicated waveforms
- Prevention of fabric contamination and improvement of printing quality through the application of an optimized belt cleaning system
- High-quality printing is possible by providing advanced RIP program drivers (Ergosoft, Inedit, Caldera)



Securing User Convenience and Diversity

- Printer and printing status can be checked through mobile devices
- Securing printing stability and quality for various fabrics (knit, woven)
- Improved usability by applying a touch-type front and rear monitor

Applications

- ✓ Fashion
- ✓ Home textile
- ✓ Outdoors

Ink

Reactive

Fabrics

- ✓ Cotton(Knit, Woven)
- ✓ Viscos
- ✓ Wool
- ✓ Linnen

- Supports 4 colors, 6 colors and 8 colors

Reactive
4 Color (Y,M,K,C)



Reactive
6 Color (Y,R,O,M,K,C)



Reactive
8 Color (Y,R,O,M,K,B,Gy,C)



- Flexible head usage quantity and color can be selected according to the usage environment

Use 1 row (8 print heads)



Use 2 rows (16 print heads)



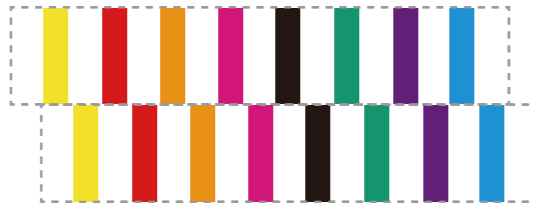
APOLLON

DIRECT TEXTILE PRINTER (PIGMENT)

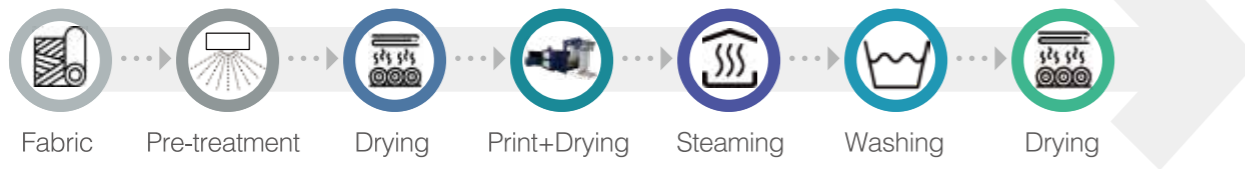
The overwhelming difference in Productivity & Cost

- Productivity increase and maximized cost reduction by process simplification
- Space utilization through minimization of installation space

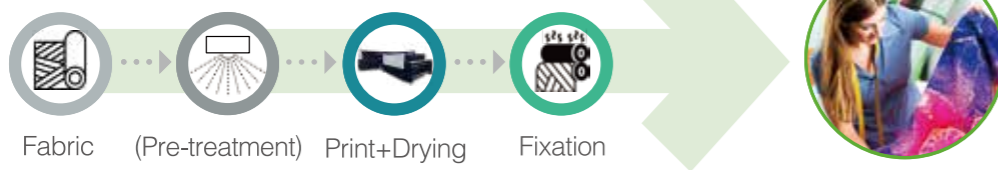
Pigment
8 Color (Y,R,O,M,K,Gr,V,C)



- Direct printing with general ink (reactive, acid, disperse)



- Pigment ink direct printing



► Pre-treatment is recommended for the fastness and printing quality.

Applications

- ✓ Fashion
- ✓ Home textile

Ink

Pigment

Fabrics

- ✓ Cotton(Knit, Woven)
- ✓ Viscos
- ✓ Wool
- ✓ Linnen



Optimization system

Application of tensionless knit fabric feeding system

Eco-friendly color industry

- Eco-friendly solution that does not require pre-treatment(Steaming/Washing/Drying)
- Works on various fabrics and minimizes installation space

Perfect digital pigment solution

- Realization of the best printing quality with DGI exclusive waveform
- Direct printing on all fabrics with high-quality pigment ink

Dryer for pigment ink (Optional)

- Compact size hot air drying system
- Temperature control 120°C
- Linked operation with printing speed is possible

APOLLON specific pigment ink fastness

Item	Y	R	O	M	K	Gr	V	C
Washing (ISO 105-C06)	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Rubbing Dry (ISO 105-X12)	4	4	4	4	4-5	4-5	3-4	4
Rubbing Wet (ISO 105-X12)	4	4	4	4	3-4	4	3-4	4
Water (ISO 105-E01)	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Light (ISO 105-B02)	6-7	5	3	7	7	6-7	6-7	7
Perspiration (ISO 105-E04)	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5

- Fabric : Cotton 40 denior Twill : 600x600dpi
- Result can be vary from the specific condition and use

Application

- Hometextile



- Fashion



► Because the fabric composition and structure are various, it is recommended to check the performance first through a fabric test before use.

The new standard of high speed printing "APOLLON"



Key features

- Dedicated waveform applied
- Dual unwinder system
- Air brake/motor – Clutch system
- Upgraded belt cleaning system
- Dust removal device
- Flexible printer head arrangement
- Upgraded dedicated UI & touch display (Front & Rear)
- Mobile monitoring
- Independent print head cleaning system
- Dedicated dryer & winder system (Optional)



Dual unwinder system

- Air brake device for stable printing of woven fabrics
- Motor-clutch device for stable printing of knit fabrics



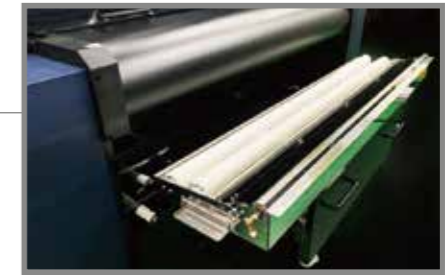
Linear motor and scale applied

- Application of magnetic linear motor and scale
- Securing printing stability by improving productivity and mechanical precision (Improved print quality stability compared to belt type)



Device for dust removal in main body

- Improved output quality by applying a suction type dust removal device (Dust removal of ink and dust generated during printing and suction into the device to prevent contamination of media & peripherals)

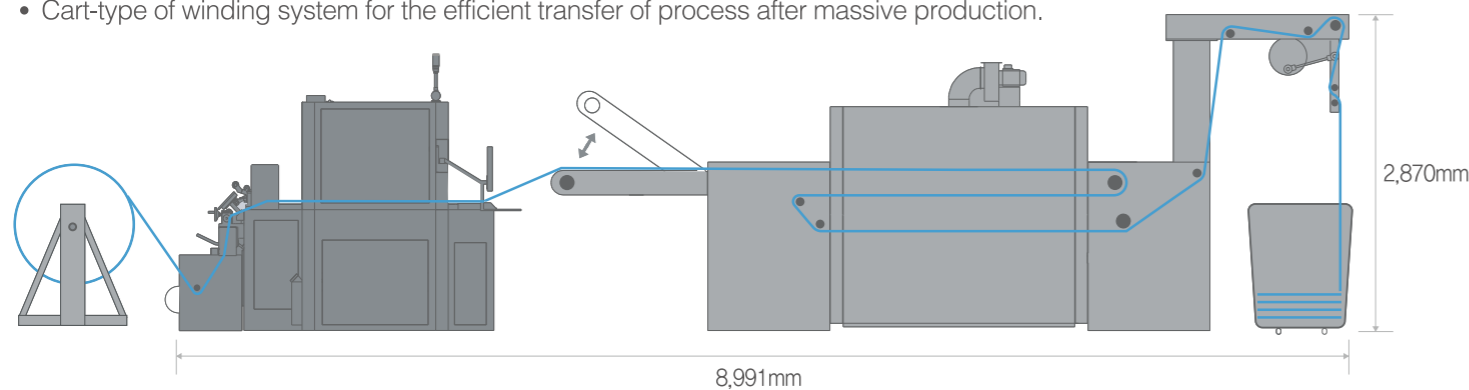


Upgraded belt cleaning system

- Upgrade detachable belt cleaning system
- Mechanical structural design to prevent belt contamination and remove moisture completely
- Improve fabric adhesion and remove moisture by installing a lower heater at the bottom of the belt

APOLLON dedicated dryer & winder system for reactivity ink (Optional)

- Dual hot air drying system for high-speed production
- Cart-type of winding system for the efficient transfer of process after massive production.



APOLLON dedicated dryer for pigment ink (Optional)

- Hot air drying system for pigment ink

