FH-3204

HYBRID SUBLIMATION TEXTILE PRINTER



DGI
DIGITAL GRAPHICS INCORPORATION

d·gen

DIGITAL GRAPHICS INCORPORATION

Introduction to DGI

Since 1985, DGI has been a prominent presence in the global digital printing industry, steadily growing over the year.
To generate higher and more sustainable customer value, we will persistentry stay the course, unwavering in our pursuit of excellence in engineering, development, and sales.



~1997	~2000	~2010	~2015	~2019	~2022	~2023
Cutting Plotter Pen Plotter Drafting Machine Parallel Ruler	Sign & Grphics Printer	Dye Sublimation Printer	Direct Textile Printer	Food Printer	Package Printer	Acquire d·gen

HYBRID SUBLIMATION PRINTER **FH-3204**

Over 80 Countries

DGI has been expanding its presence to approximately 80 countries. As of last year, the service was being operated in various countries, including Italy, the UK, Saudi Arabia, and the US. Now, more than 3,600 companies are estimated to have been using it.

DGI HEADQUARTERS

52, Cheongdam-Ro, Yangju-si, Gyeonggi-do,
Korea
TEL +82-31-820-8900

DGI GROBAL SALES OFFICE

11F, Simon Tower, 15 Teheran-ro 84-gil,
Gangnam-gu, Seoul
TEL +82-2-820-8900

DGI Europe

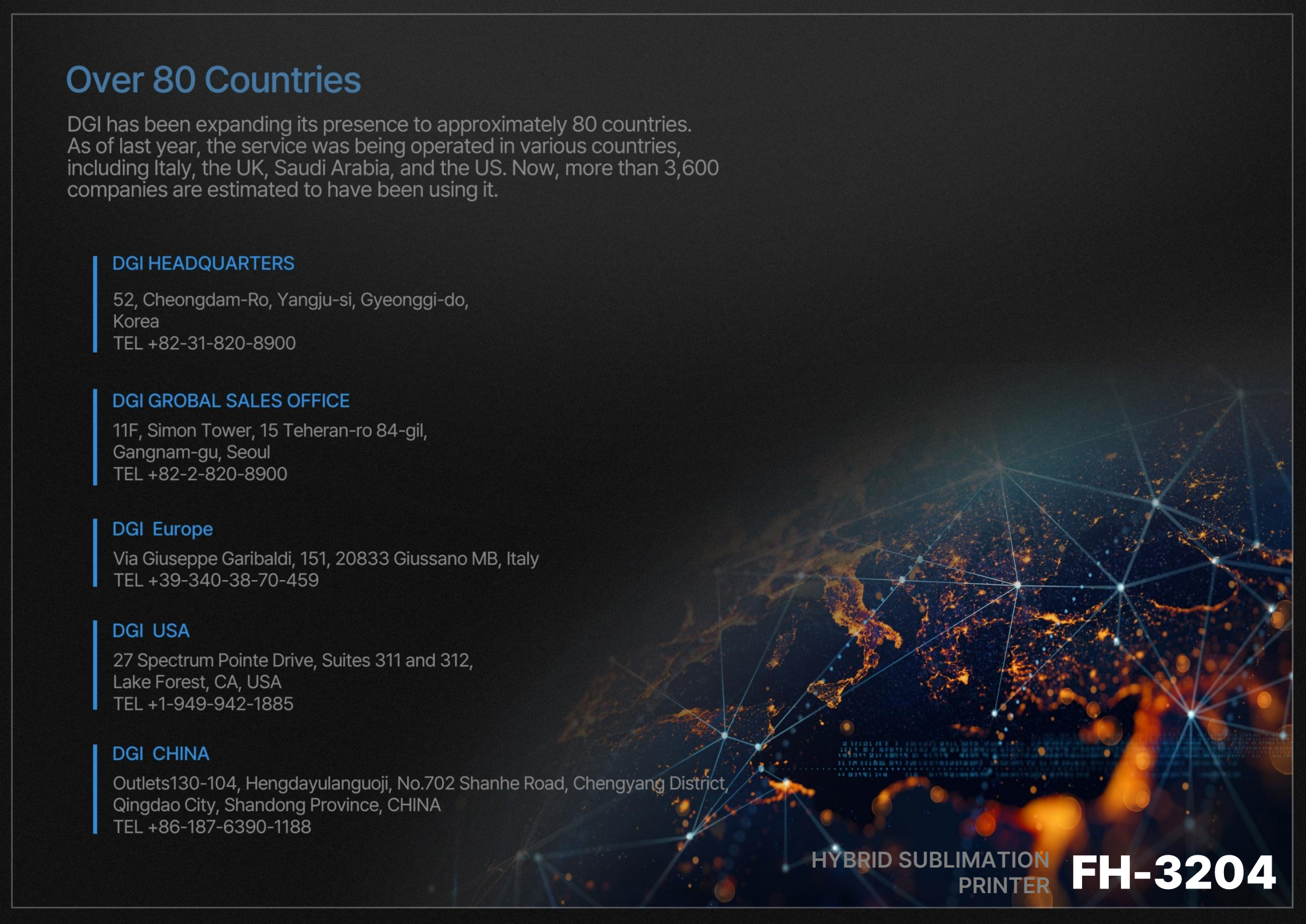
Via Giuseppe Garibaldi, 151, 20833 Giussano MB, Italy
TEL +39-340-38-70-459

DGI USA

27 Spectrum Pointe Drive, Suites 311 and 312,
Lake Forest, CA, USA
TEL +1-949-942-1885

DGI CHINA

Outlets130-104, Hengdayulanguoji, No.702 Shanhe Road, Chengyang District,
Qingdao City, Shandong Province, CHINA
TEL +86-187-6390-1188



HYBRID SUBLIMATION PRINTER **FH-3204**

" The FH-3204 wide-format, high-speed production printer is designed to greatly enhance your customers' productivity "



Max printing width

3.2m

Max printing peed

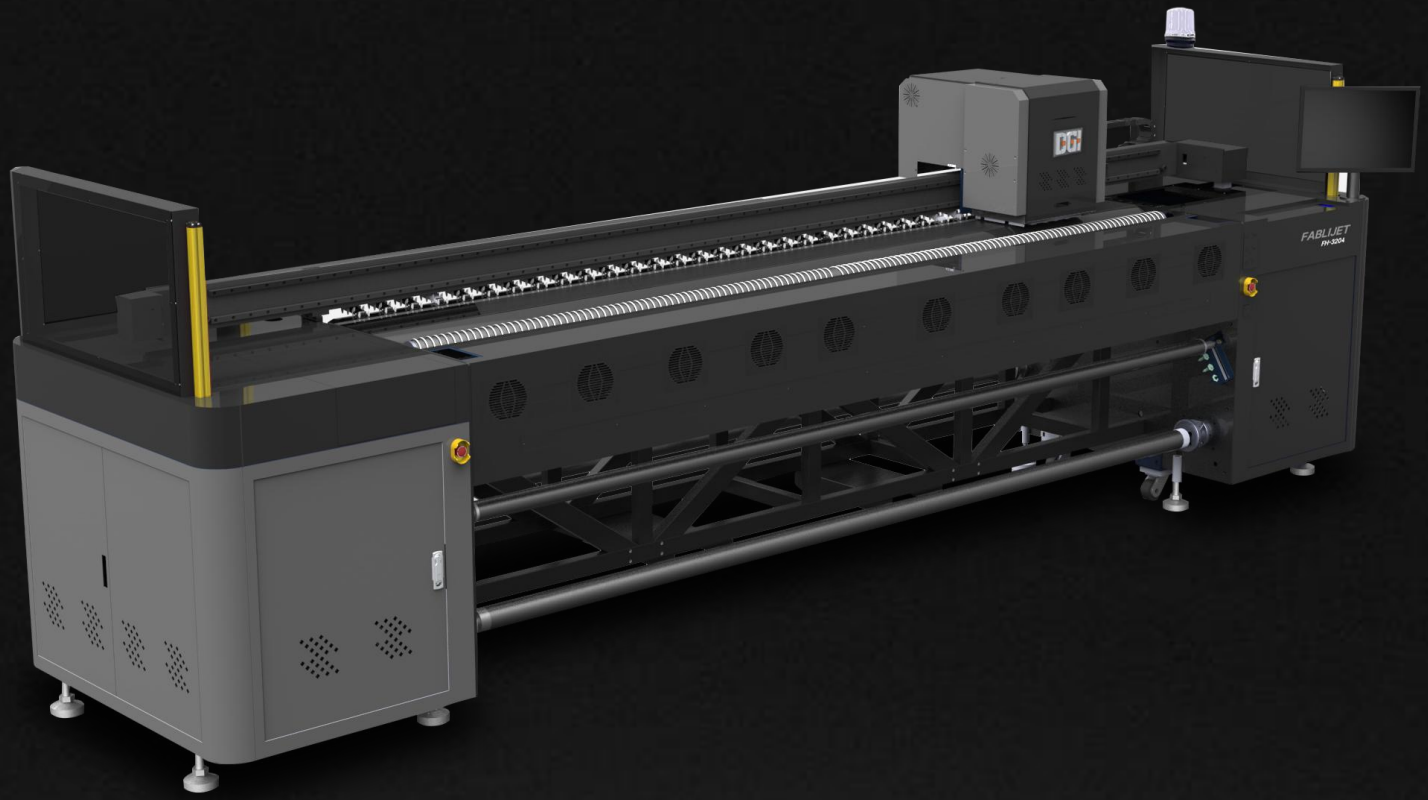
155m²/h

Max printing resolution

600 X 1800dpi

(12 Pass)

Technological advancements of the FH-3204



High Production Speed

155m² /h

Expandable Color Channels

4 to 6 Colors

Resolution

600 x 1800 dpi

Wide format Printer

3.2m

Advanced Printheads

KYOCERA 300dpi Head

Waveform

DGI enhances print quality by utilizing its proprietary waveform technology

Bulk ink system

Ink refills even during printing

Hybrid printer for fabric and sublimation paper

FH-3204

Highlight



Enhanced with industrial Kyocera printhead.

- Capable of running larger jobs and improved durability.
- In-line arrangement for Quality production.

Standard hybrid

- Capable to use fabric and sublimation paper in single unit.
- No need to buy additional printer for using each application.
- Affordable cost of using both application.

Monitor with Mobile Devices

- Connect with Mobile Devices to Monitor jobs.
- Dedicated Application for Mobile Monitoring.
- Check the status of machine and Jobs.

Hybrid printer for fabric and sublimation paper **FH-3204**

Why the FH-3204 is essential for your business.

The DGI FH-3204 is a **3.2m (126-inch) wide hybrid dye-sublimation printer** manufactured by DGI. It's designed for high-production textile printing and is known for its versatility in handling both direct-to-fabric and paper transfer sublimation.

" Hybrid Printing Method " (Versatility)

Transfer Paper Printing:
This is the standard method for dye-sublimation printing, where ink is printed onto transfer paper and then transferred to fabric using a heat press. This allows for vivid and durable images on various materials, including polyester blends.

Direct-to-Fabric Printing:
This method prints directly onto the fabric without using transfer paper. It shortens the production process and is particularly advantageous for printing on certain fabrics like mesh.

The ability to flexibly switch between these two methods on a single printer is one of the biggest strengths of the FH-3204. This provides excellent flexibility to meet diverse customer demands and product applications.

"High Productivity and Speed"

Wide 3.2m Print Width:
Enables efficient production of large-format products such as soft signage, banners, and flags.

Industrial Kyocera Print Heads:
Kyocera heads are well-known for balancing speed and quality. The FH-3204 uses these heads to deliver a fast print speed of up to 155m²/h, suitable for mass production.

Variable Dot Technology:
Allows for adjusting ink droplet sizes to enhance image detail and create smooth gradients while maintaining high speeds.

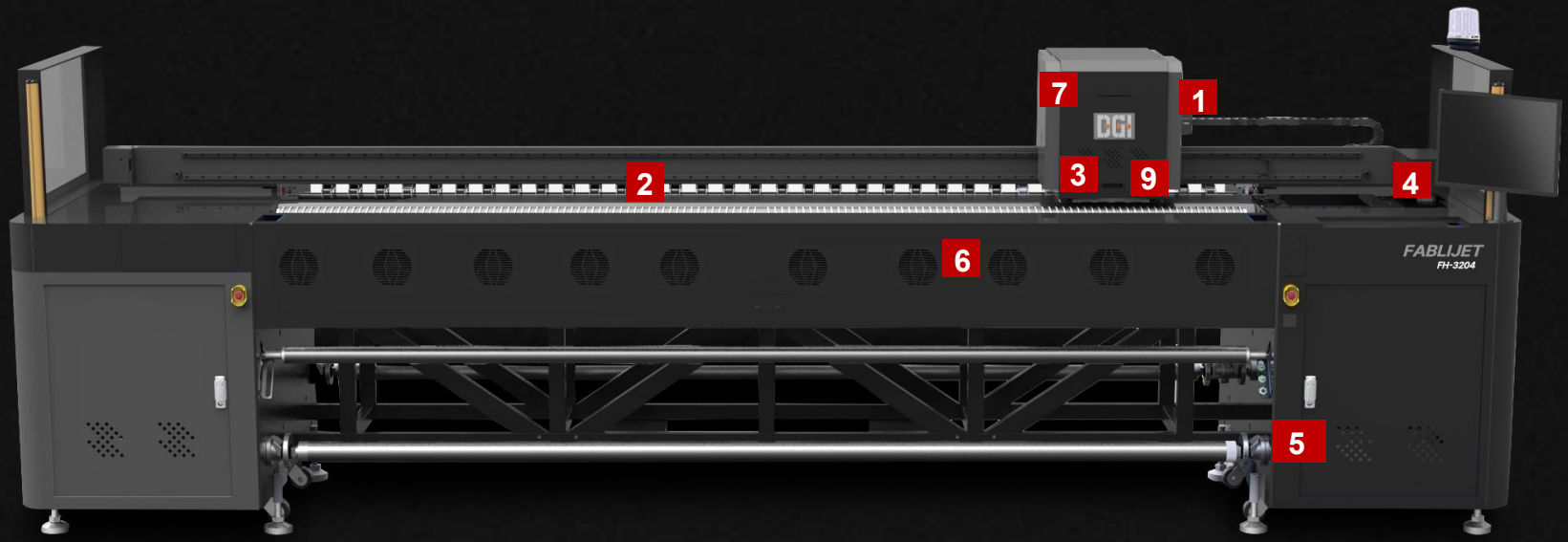
" Excellent Print Quality "

High Resolution of 600 x 1,800dpi:
Enables sharp and detailed image reproduction.

Fluorescent Colors Possible:
With specific ink configurations, it supports fluorescent colors, allowing for extremely vivid and eye-catching hues that are difficult to achieve with standard CMYK. This is a significant advantage, especially for sportswear, unique fashion items, and prominent signage.

Excellent Penetration:
For applications where double-sided printing is crucial, such as flags and banners, the ink penetrates well to the backside, delivering excellent results on both sides.

MAIN KEY FEATURES





INDUSTRIAL LEVEL PRINT HEAD

Kyocera print heads are well-suited for enhancing both printing speed and quality. Also, it provides a variety of arrangements to meet customers' needs.



ADVANCED REMOVABLE PLATEN

The removable platen can change between different media types, from paper to fabric. If the platen is removed, the printer can print fabrics, including mesh.



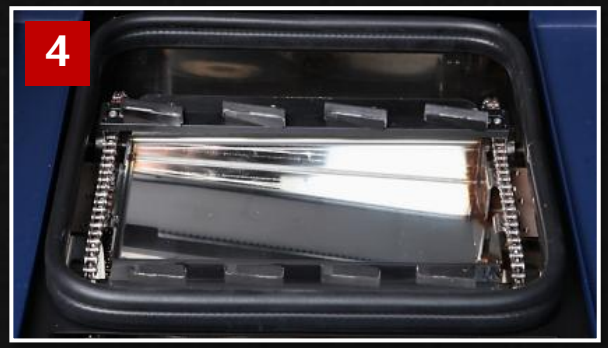
DELICATED MEDIA COLLISION SENSOR

The collision sensor reduces the likelihood of paper and media strikes during printing, thus increasing printhead protection.

Hybrid printer for fabric and sublimation paper

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MAIN KEY FEATURES



NEWLY DESIGNED WIPING SYSTEM

The wiping system keeps the cleaning blades in optimal condition by immersing them in the cleaning liquid when not in use.



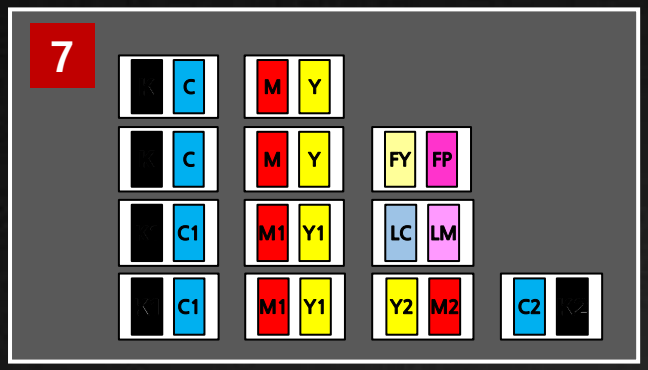
POWERFUL AIR PRESSURE ROLL

To ensure stable media control and winding, the air pressure roll is equipped. Additionally, a ruler was used to guarantee a dependable media installation.



ENHANCED STANDARD DRYER

The standard dryer, equipped at the front, enhances both drying performance and printing quality by controlling the temperature up to 120°C.



CAN BE EXPAND FROM 4 TO 6 COLORS

- Designed to print 4 / 6 colors for high gamut of prints.
- Provide basic 4 colors CMYK or add light colors or Fluorescent colors. CMYKLC/ CMYKFPFY (6 color arrangement)



DGI PRINTERMANAGER (MOBILE MONITORING)

- New mobile monitoring application for monitoring printer status in real time with mobile device.



MEDIA GAP SENSORING

- Automated media gap sensor for different kinds of medias.
- Can be used for different thickness of medias

Hybrid printer for fabric and sublimation paper

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Examples of how to verify print quality



[Duty Free in Cheju Island]



[COEX MALL]



[Incheon Airport]

Hybrid printer for fabric
and sublimation paper

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Specification

PRINTING	INK	PRINTING SPEED
Print Head	**Water Based Dye Sublimation(4 Colour)**	**600 X 600dpi 2pass**
Kyocera, 2/3/4 Heads	Yellow, Magenta, Cyan, Black	155m²/h
Ink Type	**Water Based Dye Sublimation(6 Colour)**	**600 X 600dpi 4pass**
Water Based Dye Sublimation	Yellow, Magenta, Cyan, Black, Fp, Fy	95m²/h
Number of Colour	**Ink Capacity**	**600 X 1,200dpi 8pass**
4 / 6	4L	50m²/h
Max Printing Resolution		**600 X 1,800dpi 12pass**
600 X 1,800dpi		35m²/h
Max Printing Width		
3,200mm		
Printing Mode		
Bi-Direction/Uni-Direction, Normal/Interleave		

Hybrid printer for fabric
and sublimation paper

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Specification

MEDIA

Media Drive
Roll to Roll

Max Media Width
3,320mm

Max Media Load
Diameter : 300mm, Weight : 100kg

Core Diameter Feeder
200mm, 3inch

OPERATIONAL ENVIRONMENT

Temperature
Operating: 20°C~30°C

Humidity
Operating: 40~70%

- Environmental influences can affect print quality.

DEMENTION

Printing Machine
5,020(W) x 1,470(D) x 1,840(H) mm

WEIGHT

Printing Machine
1,280kg

ELECTROCITY

Printing Machine
7.7kW, 1Φ AC 220~240V, 35A

OTHERS

Rip Software
Ergosoft

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Advantages over competitors

	DGI FH-3204	EFI FabriVu 340	DOVER MS Impres 4320	MIMAKI TX500P-3200	MIMAKI TS500P-3200	Durst Rhotex 325
Photo						
Head	Kyocera 300	Kyocera 300	Kyocera 300	Panasonic	Panasonic	Ricoh Gen5
No. of head	2/3/4 (4X1)/(6X1)/(4X2)	4(4X2)	4(4X2)	12 (4X3)/(6X2)	12 (4X3)/(6X2)	16(4X4)
No. of colors	4/6	4	4	4/6/8	4/6/8	4
No. of nozzles	2,656	2,656	2,656	800	800	1,280
Drop size	4 to 72 pl	4 to 72 pl	4 to 72 pl	N/A	N/A	7
Max Printing width	3,200mm	3,400mm	3,200mm	3,290mm	3,290mm	3,300mm
Production Speed	2pass 600x600 155m²/h	2pass 600x600 165m²/h		3pass 540x360 130m²/h	3pass 540x360 130 m²/h	Production mode 170m²/h
	4pass 600x600 95 m²/h			4pass 540x720 105m²/h	4pass 540x720 105m²/h	Quality mode 130m²/h
	8pass 600x1200 50m²/h			6pass 720x720 70m²/h	6pass 720x720 70m²/h	
	12pass 600x1800 35m²/h			12pass 720x1080 50m²/h	12pass 720x1080 50m²/h	
Production Speed	120 / 58	132	124	70 / 50	70 / 50	170
Dimensions(W x D x H)	562cmx1470cmx1840	615cmx218cmx180		562cmx305cmx182	562cmx180cmx182	680cmx3500x2300

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