

FH-3204

HYBRID PRINTER FOR DIRECT &
TRANSFER SUBLIMATION PRINTING



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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 persistently stay the course, unwavering in our pursuit of excellence in engineering, development, and sales.



~1997

Cutting Plotter
Pen Plotter
Drafting Machine
Parallel Ruler

~2000

Sign & Grphics
Printer

~2010

Dye Sublimation
Printer

~2015

Direct Textile
Printer

~2019

Food Printer

~2022

Package Printer

~2023

Acquire



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Over 100 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

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Hybrid printer for fabric
and sublimation paper

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

155 m²/h

Max printing resolution

**600
X 1800dpi**
(12 Pass)

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Technological advancements of FH-3204



**High
Production
Speed**

155m² /h



**Expandable
Color
Channels**

4 to 6 Colors



Resolution

600 x
1800 dpi



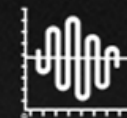
**Wide format
Printer**

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

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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



Monitoring by Mobile Devices

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

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Why 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.

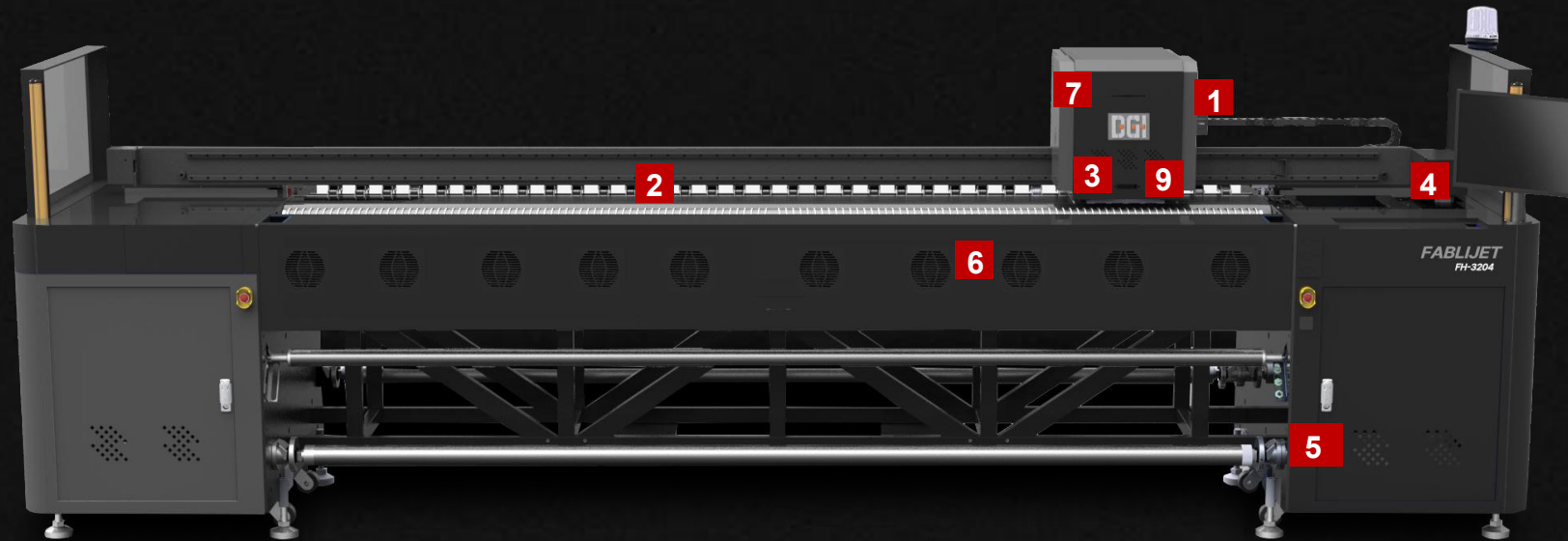
Excellent Penetration:

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.

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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.



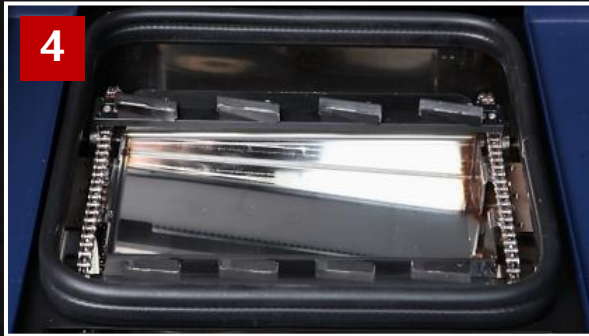
DELICATED MEDIA COLLISION SENSOR

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

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Main key features



WIPING SYSTEM

The newly designed wiping system maintains the cleaning blades in optimal condition by immersing them in a cleaning solution when not in use.



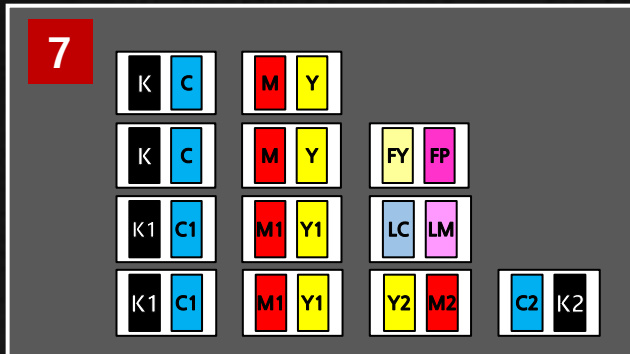
POWERFUL AIR SHAFT

The powerful air shaft provides stable media control and smooth winding. A built-in ruler further ensures precise and dependable media setup.



ENHANCED STANDARD DRYER

The front-mounted standard dryer enhances drying performance and print quality by controlling the temperature up to 120°C.



THE SYSTEM CAN BE EXPANDED FROM 4 TO 6 COLORS

It is designed to support 4 or 6 color printing for a wider color gamut. Standard configuration includes 4 basic colors (CMYK), with optional fluorescent colors available for transfer paper printing.



DGI MONITORING CENTER (DMC)

A new mobile application enables real-time monitoring of printer status from your mobile device.



MEDIA GAP SENSING

The automated media gap sensor automatically detects and adjusts for different types and thicknesses of media, ensuring consistent performance.

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Specification

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

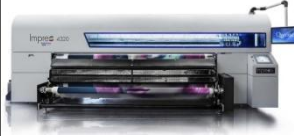
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Specification

MEDIA	OPERATIONAL ENVIRONMENT	DEMENTION
Media Drive Roll to Roll	Temperature Operating: 20°C~30°C	Printing Machine 5,020(W) x 1,470(D) x 1,840(H) mm
Max Media Width 3,200mm	Humidity Operating: 40~70%	
Max Media Load Diameter : 300mm, Weight : 100kg	Environmental influences can affect print quality.	
Core Diameter Feeder 200mm, 3inch		
WEIGHT	ELECTROCITY	OTHERS
Printing Machine 1,280kg	Printing Machine 7.7kW, 1Φ AC 220~240V, 35A	Rip Software Ergosoft

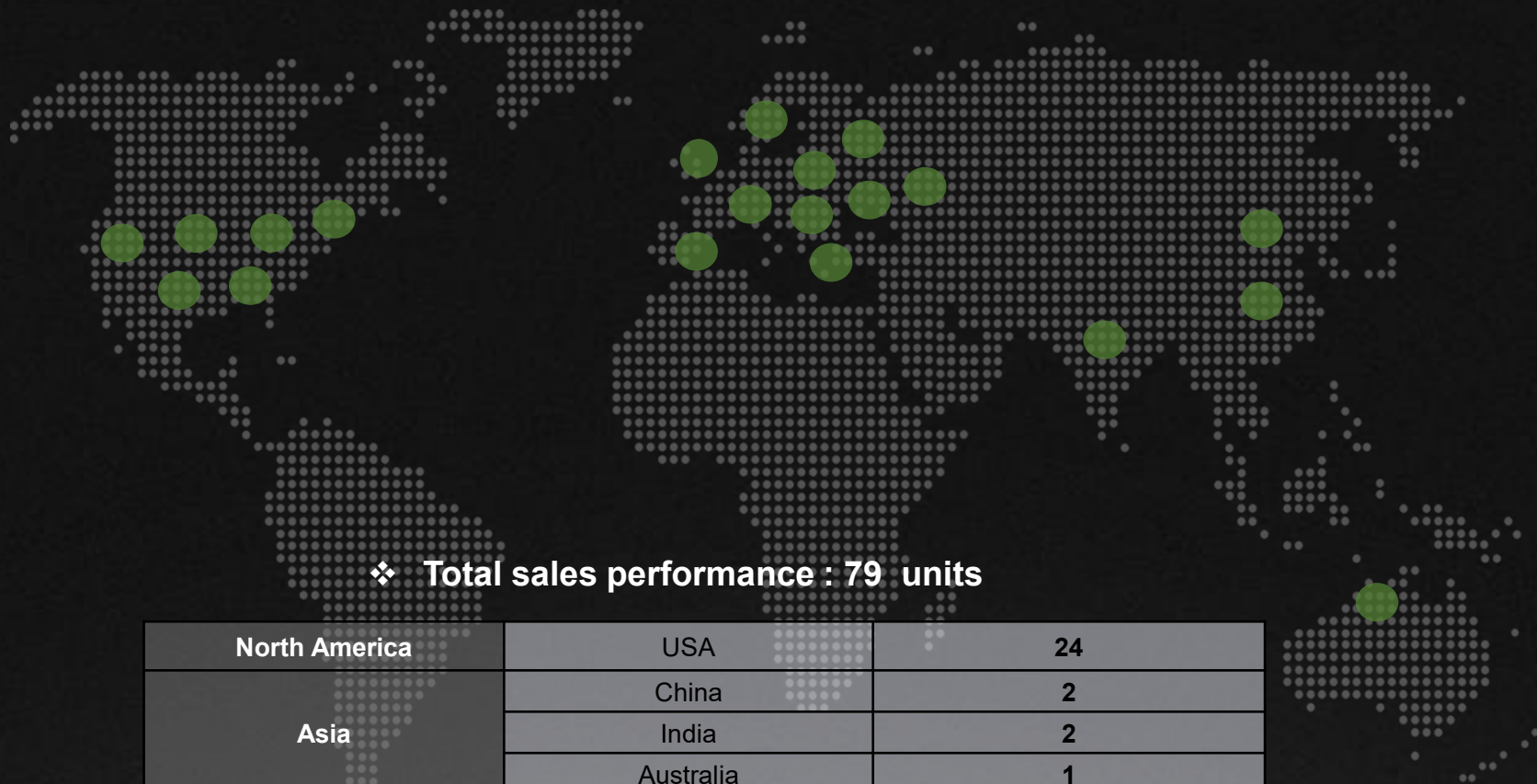
Advantages over competitors

	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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FH-3204 sales performance



❖ Total sales performance : 79 units

North America	USA	24
Asia	China	2
	India	2
	Australia	1
Europe	Belgium	43
	Poland	1
	France	1
	UK	1
	Bulgaria	1
	Turkey	1
	Bulgaria	1
Middle East	Egypt	1

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Key reference : Commercial signboard (Duty Free Shop / Large Shopping Mall)



[Duty free in Cheju island]



[COEX Mall]



[Incheon airport]

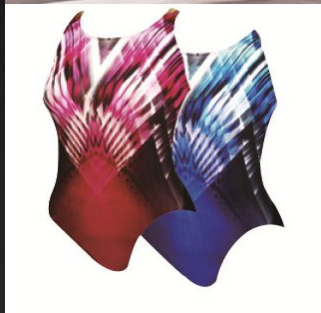
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Applications for FH-3204

Banner & Pos Graphics	Blueback	Fashion	Flag	Frontlite & Backlite Graphics	Home Textile	Industrial Sublimation	Sportswear	Sun Protection
✓	✓	✓		✓	✓	✓	✓	✓
Disperse – Home textile	Graphic Pigment		Reactive		Sublimation		Textile Pigment	
✓					✓			

Sport Wear



Outdoor Equipment



Banner



Soft Signage



Widely supplied & installed in European & American Market by Reliable dealers :

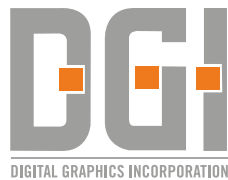
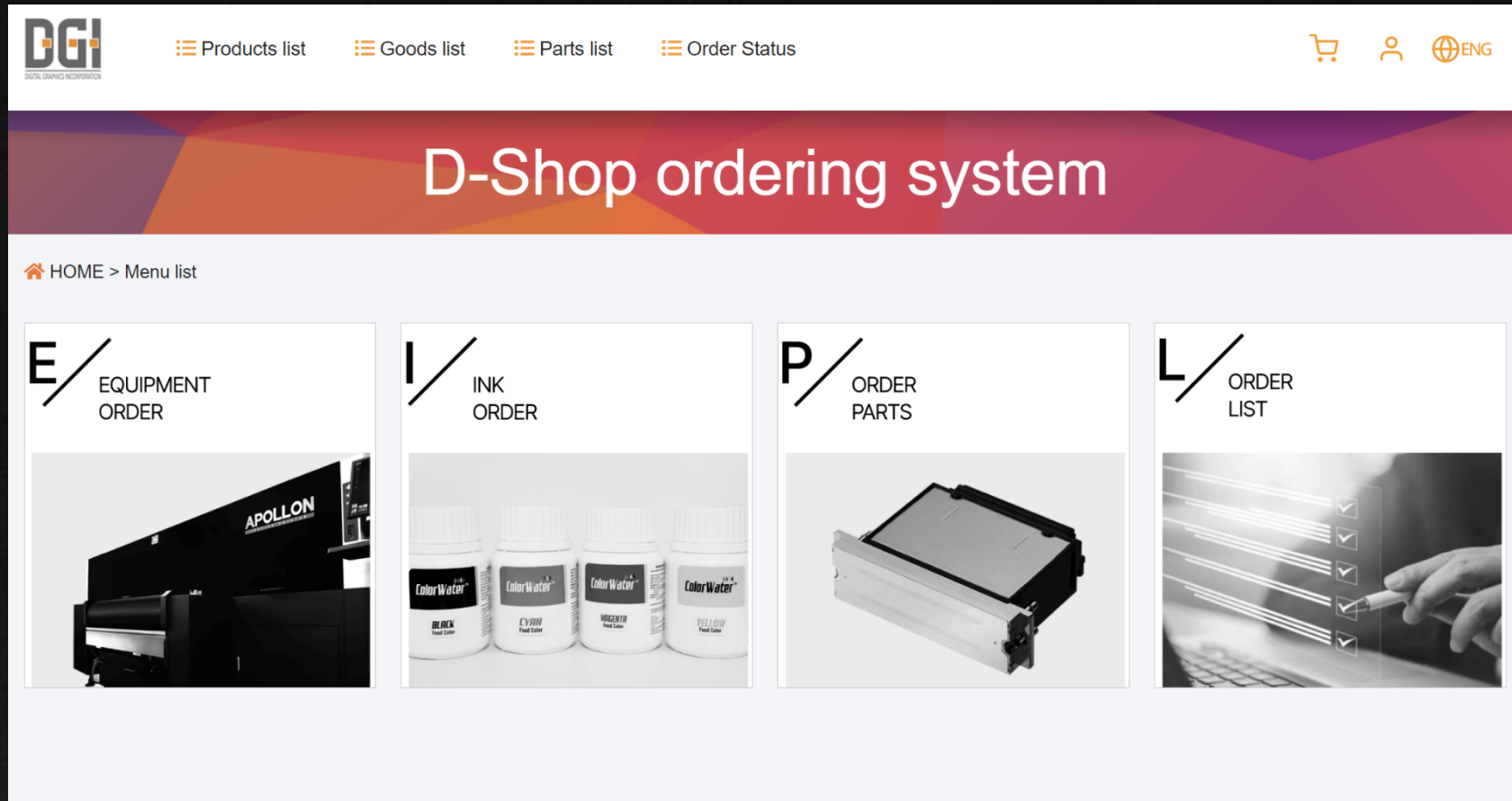
“Canon Solutions America, Inc. Announces New Line of Digital and Textile Print Solutions FH-3204 with DGI USA”

“Sabur Digital is to stock two new industrial printers launched this month by digital inkjet printer manufacturer DGI: the DGI HSFT III and the FH-3204.”

“What is wide format printing? : DGI Fabrijet FH-3204” – by Printwear & Promotion

User friendly

- Fast customer service and Easy and accurate parts ordering



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