HERCULES II

HIGH PRODUCTIVITY DYE-SUBLIMATION 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

ENTRY LEVEL
DYE SUBLIMATION PRINTER

HERCULES II

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.

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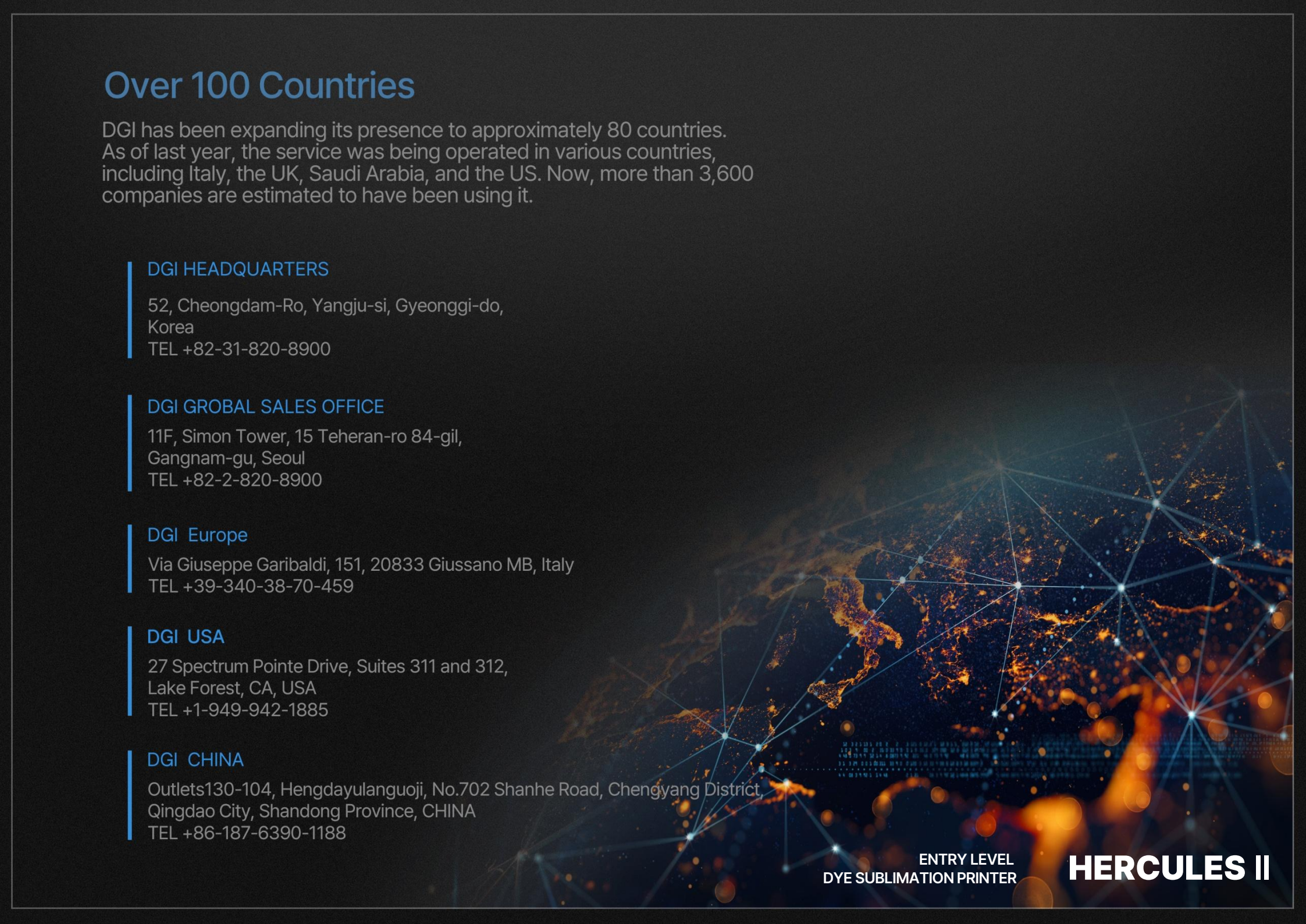

HERCULES II

ENTRY LEVEL DYE SUBLIMATION PRINTER



Your printer should be a tool for success.

"A printing solution that enhances your competitive edge by elevating print quality while simultaneously lowering costs."

COST **QUALITY**

HERCULES II

ENTRY LEVEL DYE SUBLIMATION PRINTER

"A reliable, quality printer at a reasonable price, a highly attractive choice for users who prioritize value for money."

Up to

130 m^2/h

Speed

Up to

720 X 2,400 dpi

Resolution

Technological advancements of the HERCULES II



High Production Speed

130m² /h

2.5pl Smallest Droplet and Variable Dots

6 Colors

Printing Resolution

720 x 2400 dpi

Advanced Printheads

i3200 X 4 Printheads

Take-Up System

Maximum 200 linear meter

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DYE SUBLIMATION PRINTER

HERCULES II

Highlight



EXELENT PRODUCTIVITY

High Printing Speed
Up to 130m²/h

+

Unattended production for
8 hours is possible up to 200m
(Linear Meter) of media.

+

A large-capacity bulk-type ink
system that allows ink refilling
even during printing

HIGH-QUALITY PRINTING

High-Resolution
MAX 720 x 2,400 dpi

+

Precise Head Technology
Epson I3200 print head
with 3,200 nozzles

+

DGI's proprietary dedicated
waveform technology

STABILITY & RELIABILITY

A head crash sensor detects obstacles
during printing and prevents head damage.

+

suction-type capping station easily
and efficiently removes nozzle clogs

+

Dual External Dryers enhance both
drying performance and print
quality during high-speed printing

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DYE SUBLIMATION PRINTER

HERCULES II

Why the HERCULES II is essential for your business.

HERCULES II is a Dye Sublimation printer primarily designed to support business success by enhancing productivity, quality, stability, and ease of maintenance.
The main reasons to recommend this printer to consumers (especially business customers who require mass production) are as follows:

Outstanding Productivity and Efficiency

High Printing Speed:

It supports a fast printing speed of up to 130m²/h, making it suitable for mass production.

8-Hour Unattended Production Capability:

Unattended production for 8 hours is possible through the 2.5L large-capacity ink tank and the take-up system that accommodates up to 200m (Linear Meter) of media. (Utilizing information from previous response)

Continuous Ink Supply System:

By adopting a bulk-type ink system with a large capacity, which allows ink refilling even during printing, it enables long-term cost savings on ink and ensures stable continuous printing.

High-Resolution and High-Quality Printing

High-Resolution Support:

It supports a maximum print resolution of 720 x 2,400 dpi, delivering high-quality output.

Precise Head Technology:

Equipped with the Epson I3200 print head with 3,200 nozzles, it produces fine ink droplets as small as 2.5pl (picoliters), ensuring precise printing.

Proprietary Dedicated Waveform Technology:

DGI's proprietary dedicated waveform technology, combined with the I3200 head, provides optimal printing performance tailored to customers' diverse graphic and design requirements.

Stability and Convenient Maintenance

Head Damage Prevention:

A head crash sensor detects obstacles during printing, stops the carriage, and prevents damage to the head. (Utilizing information from previous response)

Enhanced Drying Performance:

Dual external dryers are installed at the front and bottom, enhancing both drying performance and print quality during high-speed printing.

Easy Nozzle Management:

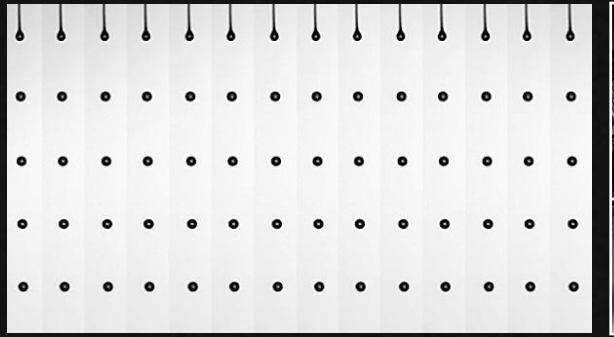
The newly designed suction-type capping station easily and efficiently removes nozzle clogs, facilitating print head maintenance.

Main key features



MORE PRECISE PRINTHEAD CONTROL

To ensure high-resolution printing, the I3200 print head is equipped with 3200 nozzles, enabling it to produce droplets as small as 2.5pl.



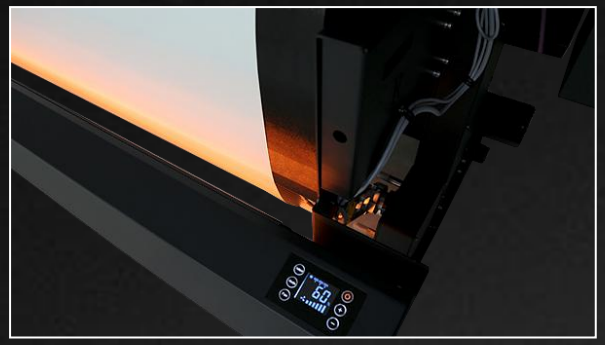
DEDICATED WAVEFORM

The dedicated waveform, developed by DGI, enables us to respond to customers' demands for quality graphics and design in various ways.



SUCTION TYPE CAPPING STATION

The newly designed suction-type capping station enables the easy and efficient and effortless unclogging of print head nozzles.



DUAL SIDED DRYING SYSTEM

The dual external dryers, equipped at the front and bottom, enhance both drying performance and printing quality for high-speed printing.



TAKE-UP SYSTEM FOR HIGH PRODUCTIVITY

The take-up system can accommodate a maximum of 200 linear meters, allowing a deviation of up to 10mm on each side.



CONTINUOUS INK SUPPLY SYSTEM

The bulk type Ink system, which is very simple and accessible, is designed for ink refilling, even during printing, to enable mass printing.

Specification

PRINTING

Print Head

Epson, 4 Heads

Ink Type

Water Based Dye Sublimation

Number of Colour

6

Max Printing Resolution

720 X 2400dpi

Max Printing Width

1600mm

Printing Mode

Bi-Direction/Uni-Direction

INK

Water Based Dye Sublimation(4 Colour)

Yellow, Magenta, Cyan, Black

Ink Capacity

2.5L

PRINTING SPEED

360 X 1200dpi 2pass

130m^2/h

360 X 1800dpi 4pass

95m^2/h

360 X 2400dpi 8pass

80m^2/h

720 X 2400dpi 12pass

40m^2/h

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DYE SUBLIMATION PRINTER

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Specification

MEDIA

Media Drive
Roll to Roll

Max Media Width
1,620mm

Max Media Load
Diameter : 200mm, Weight : 30kg

Core Diameter Feeder
200mm, 3inch

OPERATIONAL ENVIRONMENT

Temperature
Operating: 20°C~30°C

Humidity
Operating: 40~70%

- Environmental influences can affect print quality.

DEMENSION

Printing Machine
2,990(W) x 975(D) x 1,550(H) mm

Front Dryer
1,920(W) x 100(D) x 225(H) mm

WEIGHT

Printing Machine
370kg

Front Dryer
13kg

ELECTRICITY

Printing Machine
1.1kW 1Φ AC 220~240V, 5A

Front Dryer
3kW 1Φ AC 220~240V, 14A

OTHERS

Rip Software
Ergosoft

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DYE SUBLIMATION PRINTER

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Advantages over competitors

Feature	DGI Hercules II	Mimaki TS100-1600	Roland DG Texart RT-640	Epson SureColor SC-F9540
Design				
Model Positioning	**High-Speed/Industrial (High-Volume Production)**	Entry Level (All-in-One Entry)	Professional (Professional Quality)	High-Speed/Reliability (High-Speed & Reliability)
Max. Print Width	**1,600mm**	1,610 mm	1,615 mm	1,620 mm
Max. Print Speed	**360 X 1200dpi 2pass 130m²/h**	Up to 70 m²/h (High-Speed mode)	Up to 48.5 m²/h (4-color, High-Speed mode)	Over 100 m²/h (Manufacturer claimed)
Print Head	**Epson, 4 Heads**	Piezo Head, 2 units (Staggered layout)	Gold-Plated Piezo Head	PrecisionCore™ MicroTFP Head, 2 units
Ink Configuration	**4-color (CMYK)**	4-color (CMYK, Sb610)	4-color or 8-color (CMYK, LcLmOrVi, etc.), Fluorescent Option	4-color (CMYK, HDK), Fluorescent option available
Ink Supply System	**Large Capacity Bulk Ink (Estimated)**	1L Ink Bottle	1L Ink Pouch	Large Capacity Ink Tank /Pack System
Key Features	**Optimized for high-volume production, Robust industrial design (Estimated)**	Economical adoption, Nozzle Recovery/Check System (NCU, NRS, DAS)	Diverse Ink Options (Fluorescent, 8-color), High-quality color reproduction	Epson Genuine Total Solution, Highly reliable PrecisionCore Head Technology
Target User	**Factories requiring large-scale, high-throughput production (Apparel, Signage)**	New entrants to dye-sublimation, Small-batch multi-product production	Designers/Studios focused on diverse colors and high quality	Users prioritizing stable high-speed production and operational efficiency

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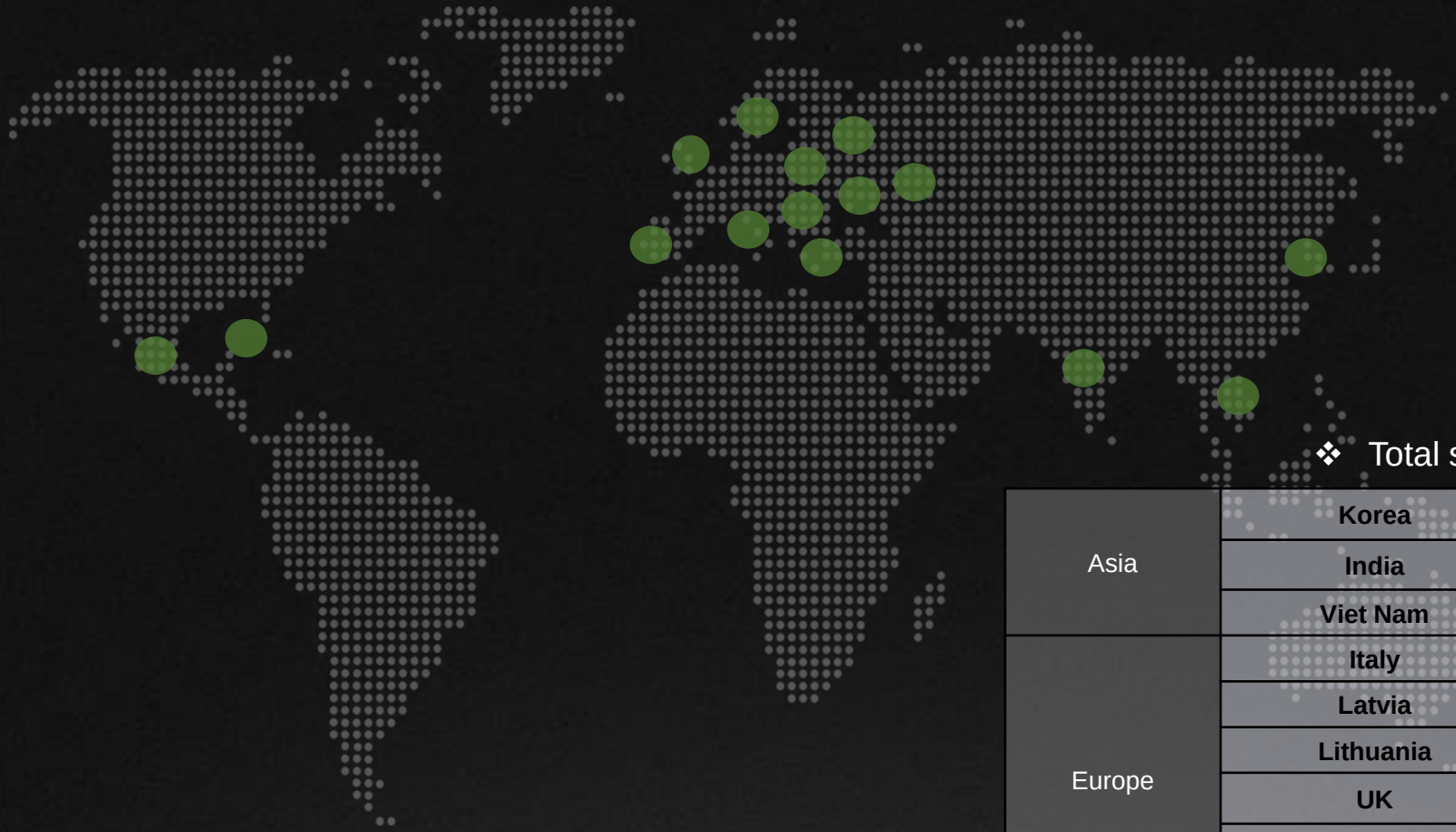
HERCULES Ⅱ sales performance



❖ Total sales performance : 49 units

Asia	**Korea**	7
	India	1
	Viet Nam	1
Europe	**Italy**	3
	Latvia	1
	Lithuania	4
	UK	3
	Bulgaria	7
	Turkey	5
Middle East	**Egypt**	12
	UAE	2
South America	**Jamaica**	1
	Mexico	2

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Applications for HERCULES II

Banner & Pos Graphics	Blueback	Fashion	Flag	Frontlite & Backlite Graphics	Home Textile	Industrial Sublimation	Sportswear	Sun Protection
		✓			✓	✓	✓	✓

Disperse	Graphic Pigment	Reactive	Sublimation	Textile Pigment
			✓	

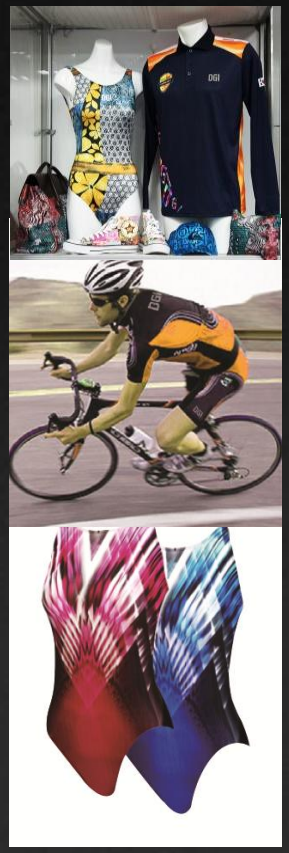
Home textile



Fashion



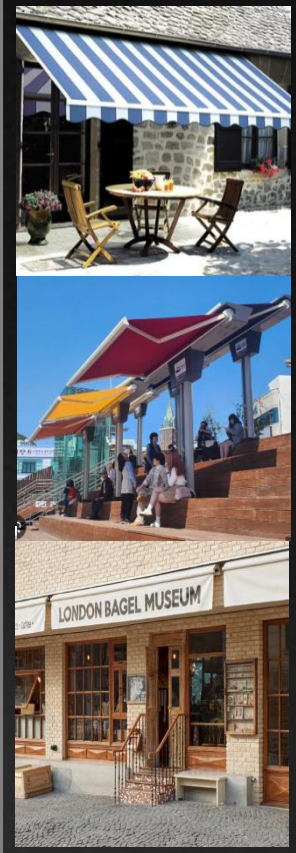
Sports wear



Soft Sign/Banner



Sun protection



Success Story

- Newly Launched in 2024 & promoted to European Market by Reliable dealers

"DGI Invites Visitors To Their Stand At The FESPA Global Print Expo In Amsterdam – Poseidon II & Hercules II"
-by Texintel

"DGI Unveils Latest Offerings at FESPA 2024 : Poseidon II & Hercules II"
– by World Imaging News

"Very serious and professional. The printer is already in function and has been working great!"
– Review from Machinio

ROI Simulation

Model	ROI Efficiency	Playback Speed	Profitability Level	Key ROI Drivers
HERCULES II	Medium (209%)	2.2y	Balanced productivity	Reasonable Investment
Mimaki TS330-1600	Medium (195%)	2.4y	Reliable Textile output	Quality focused
Epon SureColor F6470	Medium - Low (127%)	3.0y	Low productivity	Customized output

Strategic Advantages

-Twin Epson printhead technology / Support up to six hours of unmanned production

-Maximum resolution of 720 x 1800 dpi

-Upgraded pinch roller system to run lightweight sublimation papers / Heavy duty take up system

User friendly

- Fast customer service and Easy and accurate parts ordering

