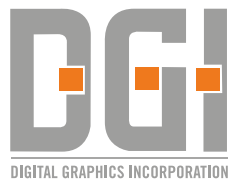


POSEIDON II

HIGH PRODUCTIVITY
DYE-SUBLIMATION & GRAPHIC PIGMENT INK PRINTER



010 020 9999 • sales@midcomp.co.za • www.midcomp.co.za



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



High Productivity
Dye-Sublimation & Graphic Pigment Printer

POSEIDON 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.

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

High Productivity
Dye-Sublimation & Graphic Pigment Printer **POSEIDON II**

POSEIDON II

INDUSTRIAL LEVEL DYE SUBLIMATION & GRAPHIC PIGMENT PRINTER

Up to

760 m²/h

Speed

Up to

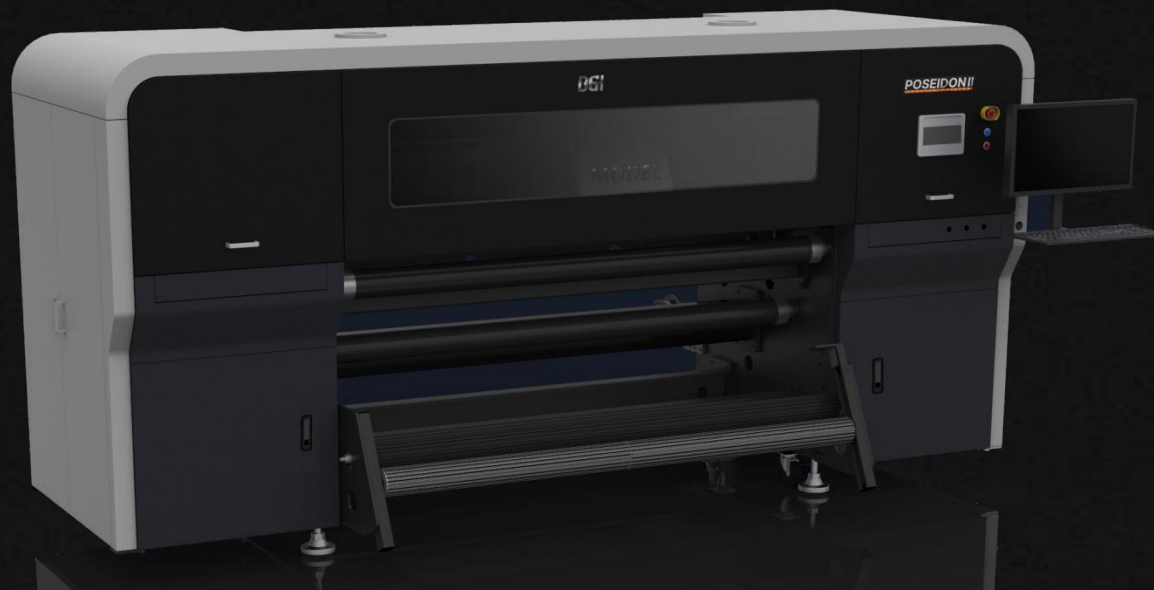
600
X 1,800 dpi

Resolution

This data is based on the specifications of the 8-head (2-stagger) model.
The 4-head and 8-head (4-colour) models are also available as bespoke options.

High Productivity
Dye-Sublimation & Graphic Pigment Printer **POSEIDON II**

Main advantages



**Max
Production
Speed**

760 m² /h



**Micro Piezo
Printing
with
Variable
Dot(5,7,12pl)**



**Max
Printing
Resolution**

1800dpi



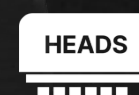
**Industrial
Chiller**

Head Cooling
System
(Adjust head
temperature)



**MAX
Printing
Width**

1820mm



**8 KYOCERA
Printheads**

4/8 Heads



Linear technology

Faster printing speed,
higher printing quality

High Productivity
Dye-Sublimation & Graphic Pigment Printer **POSEIDON II**

Keywords to describe POSEIDON II



High-Speed Output

Boasting an incredibly fast speed of up to 760 m²/h (based on 300 x 600dpi, 1-pass), it is ideal for mass production.



High-Quality Printing

Equipped with 4 or 8 Kyocera industrial print heads, it enables high-resolution printing up to 600 x 1,800dpi, and provides precise print quality through variable dot technology.



Versatile Ink Support

It supports both water-based dye-sublimation inks (4-color) and water-based graphic pigment inks (4-color)

High Productivity
Dye-Sublimation & Graphic Pigment Printer **POSEIDON II**

Why the POSEIDON II is essential for your business.

The DGI Poseidon II is an industrial dye-sublimation printer well-suited for environments prioritizing productivity and print quality.

“High Speed and Productivity”

Ultra-High Output :

Boasting best-in-class printing speeds, it can achieve up to 760m²/h with an 8-head configuration, making it highly advantageous for mass production.

Continuous Printing Capability :

Capable of up to 10 hours of unattended printing, supported by a large-capacity bulk ink system (10L) and a jumbo roll unwinding system (max. diameter 800mm, weight 700kg). This facilitates long-duration continuous operation, maximizing productivity.

“Excellent Print Quality”

High Resolution :

Utilizes Kyocera print heads to deliver high resolutions of up to 600 x 1,800 dpi, enabling sharp and precise image reproduction.

Precise Printing :

Employs linear motors and metal encoder scales for highly accurate printing. The S-shaped suction plate minimizes cockling (wrinkling) that can occur on lightweight transfer paper with high ink loads, ensuring stable print quality.

Diverse Color Support :

Beyond the standard 4 colors (CMYK), it supports fluorescent inks (e.g., Fluorescent Yellow, Fluorescent Pink), allowing for more vibrant and unique color expressions in sportswear and fashion.

Variable Ink Droplet Size :

Offers a wide range of picometer sizes (5-18PL) for richer and deeper color rendition.

“Stability and Easy Maintenance”

Industrial Design :

Engineered with a robust and durable industrial structure for 24/7 operation.

Head Cooling System :

A water-cooling head system consistently maintains the print head temperature, enhancing output stability during continuous printing and extending head lifespan.

Automatic Maintenance Functions :

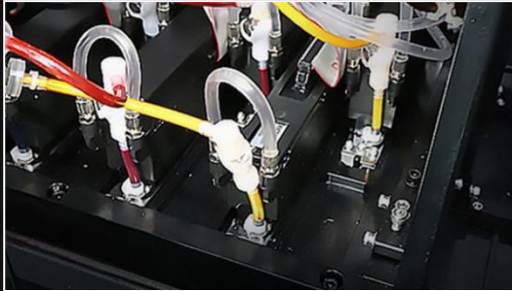
A chain wiping system and automatic water cleaning function keep the print head blades in optimal condition, reducing the need for manual cleaning.

The Nozzle Weeping function prevents nozzle drying during non-operation, preventing clogs.

Head Crash Sensor :

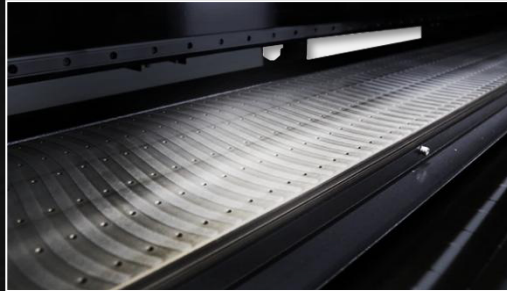
Detects contact with obstacles during printing and automatically stops the carriage to prevent head damage.

Main key features



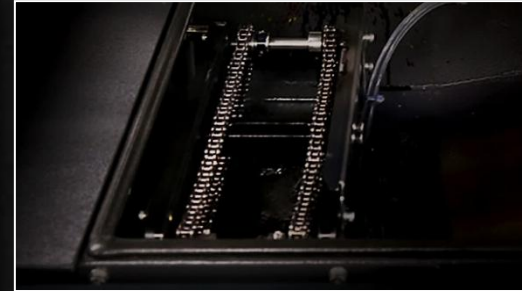
HEAD COOLING SYSTEM

The water based head cooling system maintains the temperature of the print head to enable continuous printing and improve runability.



THE INVENTIVE S-SHAPED SUCTION PLATE

A new suction system has been implemented to minimize cockling issues that may occur when using a large amount of ink on low-weight transfer paper.



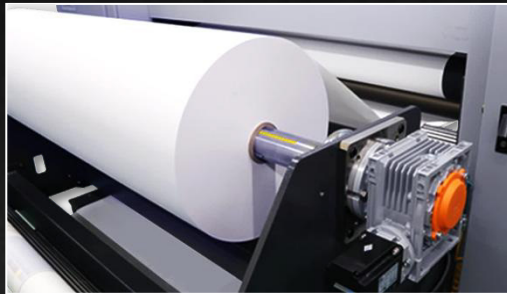
NEWLY DESIGNED WIPING SYSTEM

The chain wiping and automatic water flushing system maintain optimal blade conditions, thereby eliminating the need for operators to clean the printhead blades.



LINEAR MOTOR AND METAL ENCODER SCALE

The linear motor and metal encoder scale ensure high-precision printing, while also maintaining low operational and maintenance costs.



JUMBO ROLL UNWINDING SYSTEM

The jumbo roll unwinding system has a loading capacity that can support a maximum paper diameter of 800mm and a maximum weight of 700kg. (*Optional)



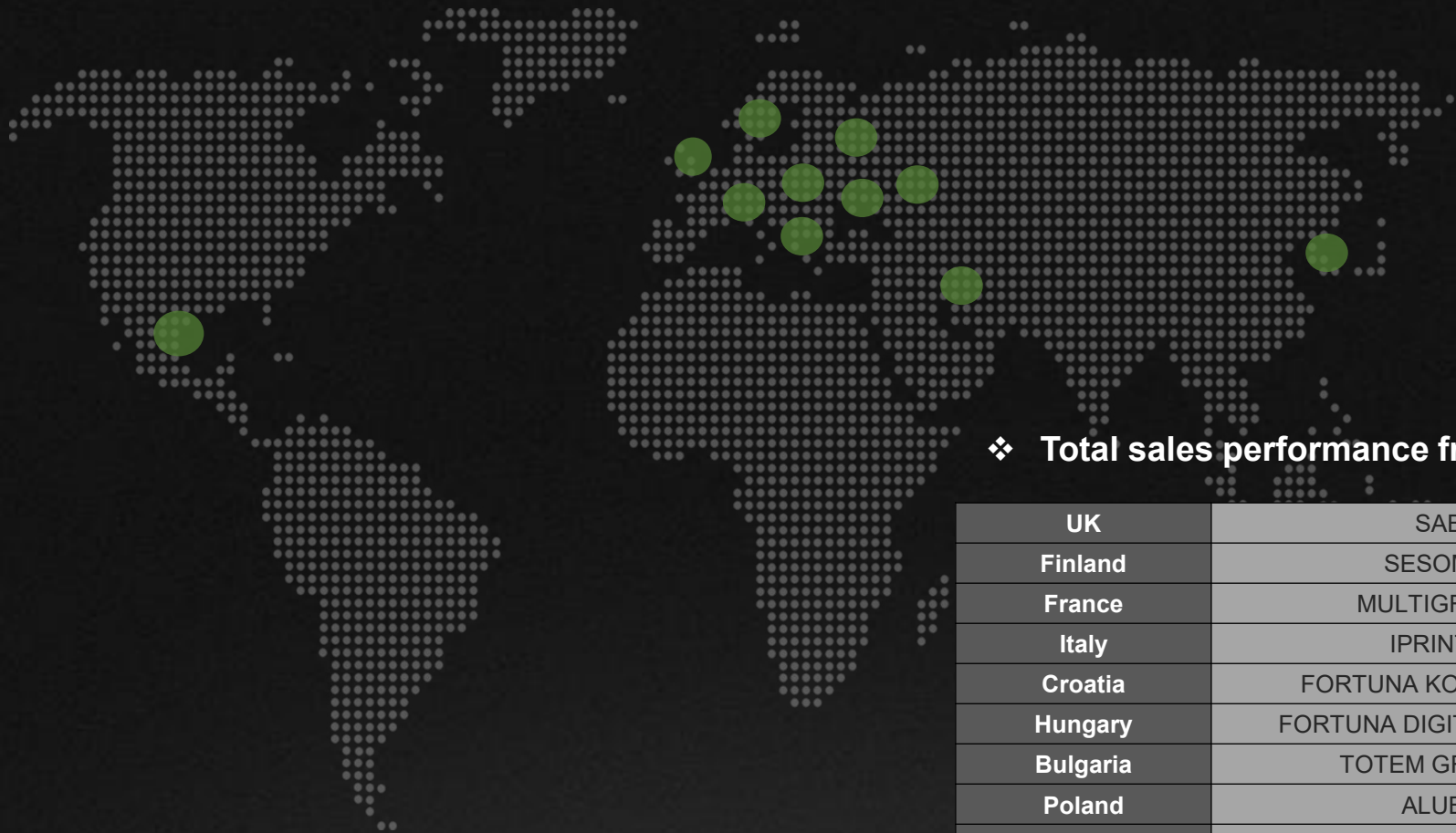
BULK TYPE INK REFILL SYSTEM (10L)

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

Advantages over competitors

Model	DGI POSEIDON II	Aleph LaForte 200	MS JP4 (Evo)	EPSON ML-8000	Mimaki Tiger-1800B / Tiger600-1800TS
Design					
Head	Kyocera Head (Piezo DOD)	Variable Drop Inkjet	Scanning (Inkjet)	Precision Core (Inkjet)	On-demand Piezo Head
Max printing width	1820mm	2400mm	1800mm - 3200mm	1850mm	1850mm
Heads	4/8 (Kyocera)	2 ~ 8	8	8	16 (Tiger-1800B) / 8 (Tiger600-1800TS)
Max printing speed	760 m ² /h (300x600 dpi, 1-pass)	Max 420 m ² /h	210 m ² /h (2x CMYK) 315 m ² /hh (Paper, 2xCMYK)	290 m ² /h (300x600 dpi, 1-pass)	385 m ² /h (Tiger-1800B) 135 m ² /h (Tiger600-1800TS)
Max resolution	600 x 1800 dpi	1200 DPI	600 x 600 dpi	1200 x 1200 dpi (안료)	600 dpi (Tiger-1800B) / 300, 600 dpi (Tiger600-1800TS)
Ink	Water-based Sublimation, Water-based Graphic Pigment	Reactive ,Acidic, Pigment, Direct Sublimation, Direct Dispersion	Open tank system (Main : Sublimation)	Reactive ,Acidic, Pigment, Direct Dispersion	Reactive, Acid, Sublimation, Textile pigment
Color	4 colors (Lc, Lm, Fm, Fy)	4 / 6 / 8 color	Max 8 Colors	8 color	8 color (Tiger-1800B) / 4 color (Tiger600-1800TS)
Minimum Ink Droplet Size	4pl ~ 72pl (Kyocera Head)	4pl ~ 72pl	4pl ~ 72pl	Variable Ink Droplet Technology	Various ink droplet sizes
Ink capacity	10 L	5/10 L	10 L (By color)	3 L, 10L	10 kg (Tiger-1800B) 10kg (Tiger600-1800TS)
Feeding system	Role to role, Jumbo role unwinding system	Rotary sticky belt system	Vaccum & Media handling system	Conveyor Belt (Adhesive Type)	Belt type(Tiger-1800B)
Key feature	Head cooling system	- Dual module heads	Compatibility with various materials (fabric, paper)	PrecisionCore technology	High-speed production, stable mechanism, various optional units
	LINEAR MOTOR AND METAL ENCODER SCALE	Automatic head alignment	Energy Efficiency	Epson Precision Dot technology	
	JUMBO ROLL UNWINDING SYSTEM	Precision belt feeding	User friendly interface	Automatic belt cleaning	
Size	3600 x 2500 x 2450 mm	4680 x 2100 x 2400 mm	Various size by model	3700 x 2690 x 1830 mm	5250 x 2700 x 2000 mm (Tiger-1800B)

POSEIDON II sales performance



❖ Total sales performance from 2024 to 2025

UK	SABUR	2
Finland	SESOMA OY	1
France	MULTIGRAPHICS	5
Italy	IPRINT SRL	4
Croatia	FORTUNA KOMERS D.O.O.	3
Hungary	FORTUNA DIGITAL(HUNGARY)	1
Bulgaria	TOTEM GROUP LTD	2
Poland	ALUBEST	2
Slovakia	SPANDEX, S.R.O.	1
UAE	GIFFIN GRAPHICS	2
USA	AMERICAN PRINT CONSULTANTS, LLC	2
Mexico	THE MAGIC TOUCH MEXICO	2
KOREA	Youngshin Trading Co., Ltd	1
KOREA	Vision TM Inc.	1

Specification

Printing	Ink	Printing Speed
Print Head Kyocera, 4/8 Heads		300 X 600dpi 1pass 760m²/h
Ink Type Water Based Dye Sublimation Water Based Graphic Pigment	Water Based Dye Sublimation (4 Color) Yellow, Magenta, Cyan, Black	600 X 600dpi 1pass 500m²/h
Number of Colour 4	Water Based Graphic Pigment (4 Color) Yellow, Magenta, Cyan, Black	300 X 1,200dpi 2pass 350m²/h
Max Printing Resolution 600 X 1,800dpi	Ink Capacity 10L	508 X 1,200dpi 2pass 280m²/h
Max Printing Width 1,820mm		600 X 1,800dpi 3pass 155m²/h
Printing Mode Bi-Direction/Uni-Direction		

Specification

Media	Operational Environment	Others
Media Drive Roll to Roll	Temperature Operating: 22°C~28°C	Rip Software Ergosoft and others
Max Media Width 1,850mm	Humidity Operating: 55~70%	Compressed air Minimum 5kgf/cm ²
Max Media Load Diameter : 300mm, Weight : 200kg (Unwinder) Diameter : 300mm, Weight : 200kg (Winder)	* Environmental influences can affect print quality.	
Max Media Load (Optional) Diameter : 800mm, Weight : 700kg (Unwinder) Diameter : 400mm, Weight : 300kg (Winder)		
Core Diameter Feeder 200mm, 3inch		

Dimensions	Weight	Electricity
Printing Machine 3,600(W) x 2,500(D) x 2,450(H) mm	Printing Machine 2,000kg	Printing Machine 14kW, 3Φ AC 380~415V, 21.3A

■ **SABUR (UK) – Sportswear / Dye-Sublimation**

Achieved around 40% faster print speed compared to the previous model, enabling stable long-run operation and reduced defect rates. Production efficiency improved by over 35%, helping Sabur and its customers strengthen its position in the high-speed sportswear market.

■ **IPRINT (Italy) – Graphic Pigment / Blue Back Paper**

For pigment printing on Blue Back Paper, Poseidon II delivered over 60% faster output speed with excellent drying stability for continuous production. The transition from transfer-based workflow reduced process steps and energy costs, ensuring stronger price competitiveness.

■ **MULTIGRAPHIC (France) – Graphic Pigment**

Poseidon II provided over 50% faster pigment printing speed while maintaining precise color consistency across large panels. The fast-drying pigment ink system improved post-finishing productivity and reduced material handling time in signage production.

■ **TOTEM (Bulgaria) – Graphic Pigment**

Delivered 30–40% higher printing speed and excellent drying uniformity on coated and paper-based substrates. Compact system design and low maintenance enabled 95% uptime, supporting continuous operation for graphic pigment production.

ROI Simulation

Model	ROI Efficiency	Payback Speed	Profitability Level	Key ROI Drivers
POSEIDON II	Very High(~1020%)	Fastest(~2.1 month)	Strong net margin from low CAPEX & Kyocera head efficiency	Low investment, stable 100-120 m ² /h productivity
Laforte 200	High(~950%)	Moderate(~3.1 month)	Excellent speed but higher CAPEX dampens ROI	150 m ² /h class with heavy industrial setup
MS JP4 Evo	High(~930%)	Moderate(~3.3 month)	Reliable textile output but high cost per unit	Fast reactive printing with high maintenance load
Epson ML8000	Upper-Medium (~970%)	Moderate-Fast(~3.0 month)	Balanced productivity and precision	Precision Core head accuracy; higher equipment cost
Mimaki Tiger 1800B	Medium High(~870%)	Slower(~3.6 month)	Strong throughput, lower relative ROI	300 m ² /h class overcapacity for mid-tier users
Mimaki Tiger 600-1800TS	Medium(~830%)	Slowest (~4.0 month)	Industrial-scale volume, heavy investment	Ultra-high speed; best suited for mass producers

Applications for POSEIDON II

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	
	✓				✓			

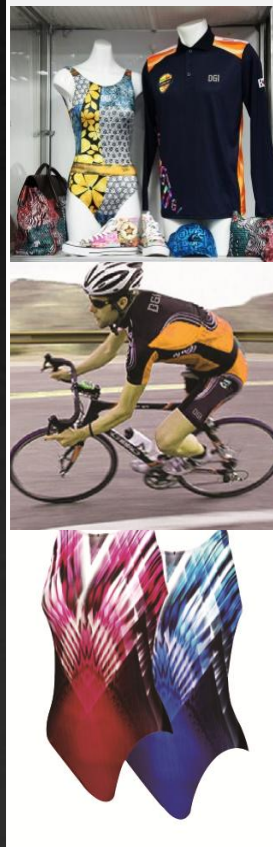
Home textile



Fashion



Sports wear



Soft Sign/Banner



Backlite graphics



Blueback

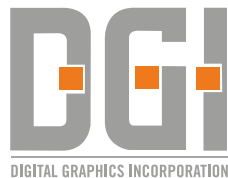
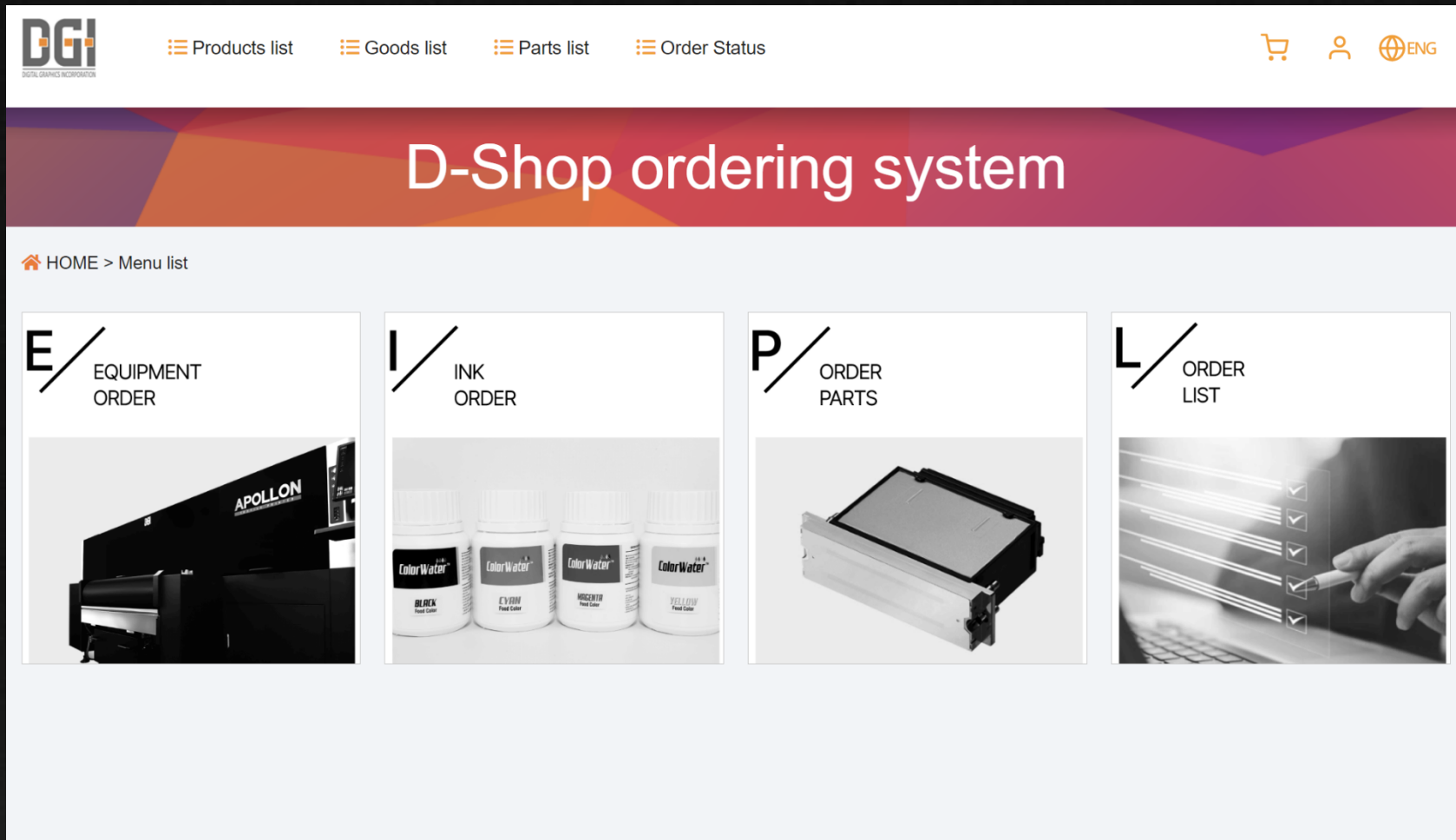


Sun protection



USER FRIENDLY

- Fast customer service and Easy and accurate parts ordering



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