

GRANDE ARTEMIS

A New Era in 3.2m Wide-Format Printing.
Speed that drives productivity. Quality you can trust.



DGI
DIGITAL GRAPHICS INCORPORATION

 **d-gen**

SPC

Stylish Penetration Control

SPC is DGI's proprietary technology that utilizes a specially formulated "Stylish Penetration Control" liquid to enhance ink penetration, resulting in superior color uniformity and Perfect double-sided results for flags.



PENETRATION WITHOUT SPC

PENETRATION WITH SPC

WITHOUT SPC



FRONT

BACK

WITH SPC



FRONT

BACK

Revolutionary 3.2m Printing,
Grande Scale, Supreme Velocity

ARTEMIS GRANDE

Introducing ARTEMIS GRANDE

The definitive 3.2-meter direct-to-fabric printer, engineered to deliver revolutionary performance and unlock new revenue opportunities for your business.



**Unrivaled
Performance**

New benchmark
in speed and
productivity



**Intelligent
Engineering**

Smarter features for
versatility and
quality



**Economic
Advantage**

Seamless inline workflow
from printing to cutting

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ARTEMIS GRANDE

Technological advancements of the ARTEMIS GRANDE



**High
Production
Speed**

200m² /h
(4C, 360x1200
2pass)



**Printing
Resolution**

720 x
3600 dpi



**7pl Smallest
Droplet and
Variable Dots**



**Ink
Configuration**

4, 6, 8 Colors
+
Optional SPC



**Max Media
Thickness**

15mm



**Robust
Printheads**

Ricoh gen5
X
12 Printheads



Max Printing Width

3,230mm

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Performance

4 color

200 m²/h (2pass)

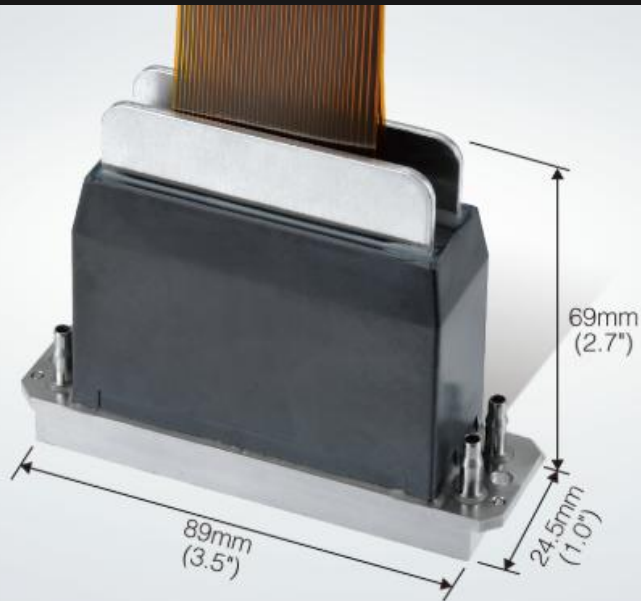
6, 8color

150 m²/h (3pass)

Engineered for Pure Speed

***“Robust and reliable printhead
for consistent performance”***

**RICOH
GEN5i**



Advanced Head Array

4x3 staggered layout of 12 Ricoh Gen5 print heads maximizes print width coverage with every pass.

Linear Motor Carriage

X-axis driven by quiet, high-precision linear motor eliminates pulley replacements, ensuring consistent printing at high speeds.

Multiple Print Modes

3-Pass Mode achieves up to 150 m²/h production speed.

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Control Every Detail. Maximize Every Output.

***“Precise control across media, color, and motion
Stable performance in demanding production environments”***

Motorized Carriage Height Adjustment

Adjustable up to 15 mm
Enables stable printing on thick and challenging materials

Flexible color configuration with optional SPC

Enhanced color consistency and deeper penetration

Enhanced Media Handling

Superior feeding system ensures reliable, precise media transport for consistent print quality across entire roll.



Lower Investment

Optimized cost efficiency for faster ROI



Increased Productivity

Up to 150 m²/h maximizes ROI



Competitive Edge

No compromise on quality or features

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“Print on Thick and Challenging Materials”

Motorized carriage height adjustment via touch panel

Feature: Up to 15 mm clearance for thick and textured media.

Advantage: Print directly on carpets, rugs, and other challenging textiles.

Benefit: Unlock new high-margin applications in flooring and specialty textiles.



“Brilliant Color” *Vibrancy and Flexibility in Every Drop*

Feature

Flexible ink configurations with up to **8 colors**, including Light Cyan, Light Magenta, Orange and Blue, plus optional Stylish Penetration Liquid.

Advantage

Achieve exceptionally wide color gamut for photorealistic quality, smooth gradients, and precise brand color matching.

A New Spectrum of Applications

***“Built for high-volume soft signage, including flags and banners
Expand into home textiles and specialty applications with one system”***



Soft Signage & Display Graphics

High-speed production for soft signage and display graphics
Wide 3.2 m printing for impactful large-format output



Home & Technical Textiles

Supports thick materials up to 15 mm
Unlock new applications in home décor and specialty textiles

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Built for Real Production Environments

“Stable, efficient, and easy to operate”

Ergonomic layout for intuitive operation
Accessible design for simplified maintenance
Stable structure for continuous production



LEFT SIDE VIEW



FRONT VIEW



REAR VIEW

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ARTEMIS GRANDE Production Line Configuration



UNWINDER

PRINTER

SUB PLATE

FIXATION

WINDER

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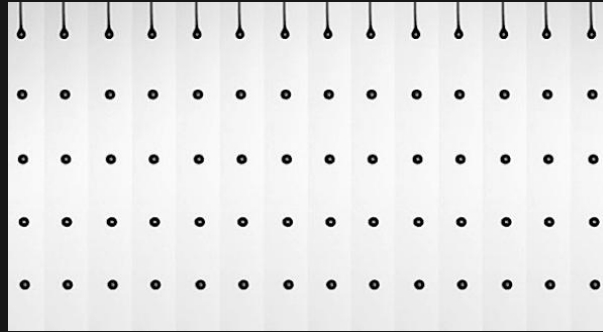
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Main key features



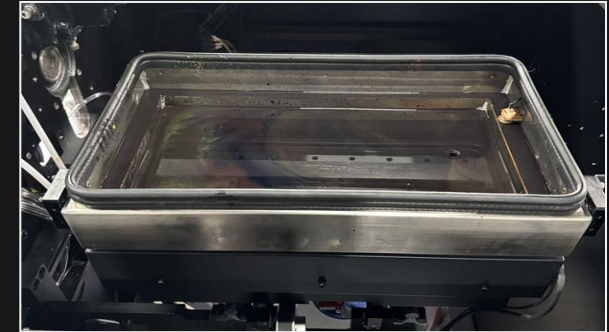
Heavy-duty, long-lasting printhead

To ensure high-resolution printing, the Ricoh Gen5 printhead is equipped with 1280 nozzles, enabling it to produce droplets as small as 7pl.



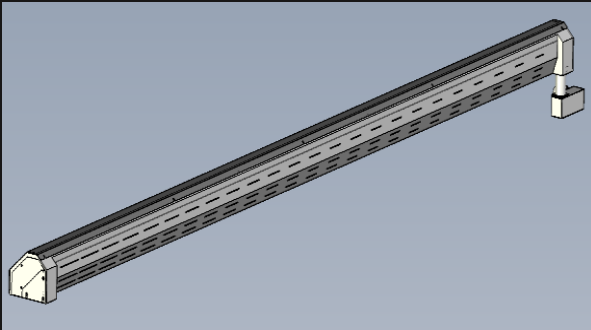
Dedicated Waveform

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



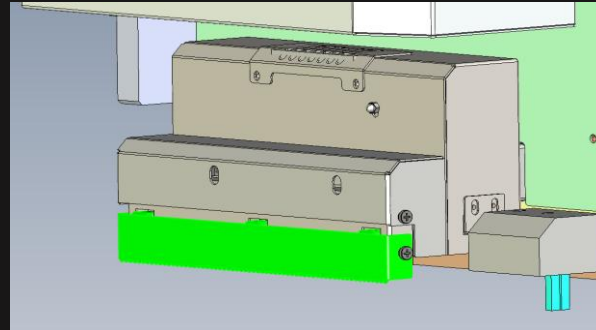
Advanced Cleaning System

The entire printhead can be wiped clean with a single blade stroke, ensuring optimal maintenance efficiency.



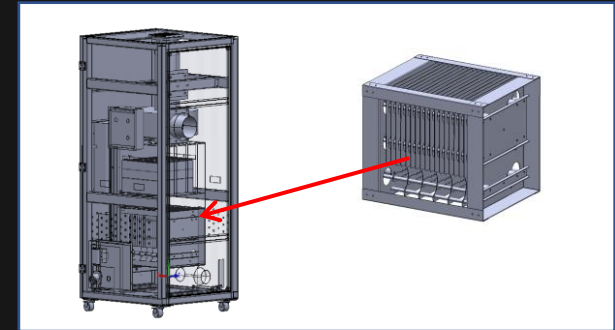
Mist Removal in Main Body & Head Carriage

Dual dust removal systems prevent contamination of both the media and peripherals by effectively removing ink mist and dust generated during printing.



Head Collision Protection System

Bi-directional anti-collision sensors are located on both the left and right sides of the carriage to detect and prevent potential damage.



Air Circulation and Purification System

Using electromagnetic adsorption technology, effectively removes fine oil mist for a cleaner working environment.

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Main key features



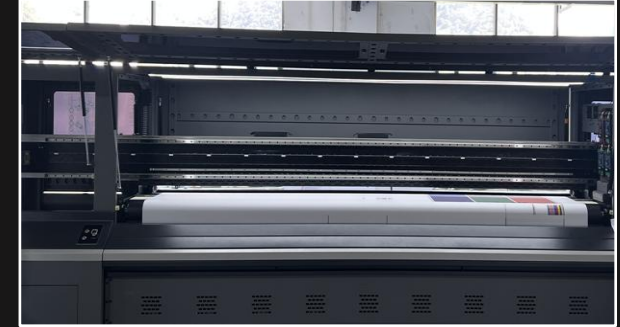
Dual Dryer System (Front & Rear)

Dual heaters are arranged in a 2-stage front and rear configuration to achieve powerful and consistent drying performance.



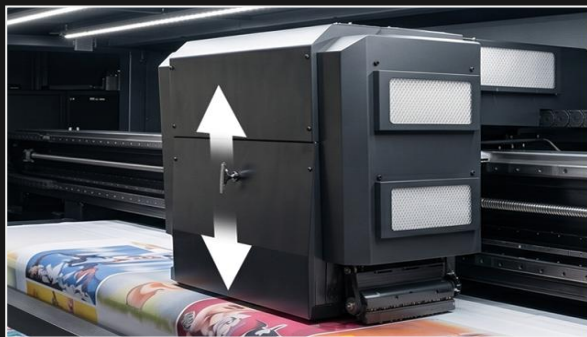
Safety Rope Switch

For maximum operator safety, emergency stop rope switches are located at both the front and rear of the machine.



Linear Motor & Metal Encoder

The application of a high-precision linear motor and metal encoder scale provides superior stability and accurate output.



Supports media up to 15 mm thickness

The carriage height can be adjusted along the Z-axis to accommodate various media thicknesses (up to 15mm).



Fixation + Cutter(Optional)

Integrated inline cutter installed on fixation unit
→ Enables efficient post-processing without additional equipment



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Specification

Printing	Ink	Printing Speed	
Print Head	Water based Dye Sublimation	4C	6/8C
12 Ricoh Gen5 Heads / 3Stagger	Yellow, Magenta, Cyan, Black, Orange, Blue, Light Cyan, Light Magenta, SPC	360X1200dpi 2pass	360X900dpi 3pass
		200 m ² /h	150 m ² /h
Number of Color	Ink Capacity		
8	5L	360X1800dpi 3pass	360X1200dpi 4pass
		150 m ² /h	115 m ² /h
Maximum Print Resolution			
720X3,600dpi		360X2400dpi 4pass	360X1800dpi 6pass
		110 m ² /h	76 m ² /h
Max Print Width			
3,230mm			360X2400dpi 8pass
			58 m ² /h
Print Mode			
Bi-Direction/Uni-Direction			

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Specification

Media

Media Drive
Roll to Roll

Maximum Media Width
3,250mm

Maximum Media Load (Basic Spec)
Diameter : 350mm, Weight : 150kg

Maximum Media Load (Optional Spec)
Diameter : 800mm, Weight : 250kg

Core Diameter Feeder
3 inch

Operational Environment

Temperature
Operating: 20°C~25°C(68°F~77°F)

Humidity
Operating: 45~65%

* Environmental influences can affect print quality.

Others

Rip Software
Ergosoft, Caldera, etc.

Air Supply Specifications
Supply Pressure: 4 bar
Flow Rate: 6 m³/h
Air Connection Tube Diameter: ø8 (O.D.)

Dimensions / Weight

Printer
5,697(W) x 1,405(D) x 2,288(H) mm, 2,960kg

Sub Plate
3,800(W) x 590(D) x 210(H) mm, 116kg

Winder (Take Up)
2,100(W) x 847(D) x 1,415(H) mm, 300kg

Fume Buster
755(W) x 692(D) x 1,588(H) mm, 270kg

HeatMan Pro Grande (Fixation)
4,675(W) x 1,154(D) x 1,410(H) mm, 950kg

Size based on connection structure

(1) Printer + Sub Plate + Winder
5,697(W) x 2,611(D) x 2,288(H) mm

(2) Printer + Sub Plate + HeatMan Pro Grande + Winder
5,697(W) x 3,934(D) x 2,288(H) mm

**(3) Optional Unwinder + Printer + Sub Plate
+ HeatMan Pro Grande + Optional Winder**
5,697(W) x 5,240(D) x 2,288(H) mm

Electricity

Printer
19kW 3Φ AC 380V, 29A

Winder (Take Up)
0.4kW 1Φ AC 220V, 2A

Fume Buster
1.3kW 1Φ AC 220V, 6A

HeatMan Pro Grande (Fixation)
28kW 3Φ AC 380V, 43A

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Spec Comparison

Item		Artemis Grande				Teleios Grande G5		Teleios Grande H12	
Head		RICOH GEN5				RICOH GEN5		RICOH GEN5	
Color		4		6/8 (SPC Available)		4		6 (SPC Available)	
Print Speed	2 Pass	200m ² /h	Production 360x1200 Quality 720x1200			154m ² /h	Production 360x1200 Quality 720x1200	143m ² /h	Production 400x1200 Quality 600x1200
	3 Pass	160m ² /h	Production 360x1800 Quality 720x1200	150m ² /h	Production 360x900 Quality 600x900	119m ² /h	Production 360x1800 Quality 720x1200	98m ² /h	Production 400x1800 Quality 600x1800
	4 Pass	120m ² /h	Production 360x2400 Quality 720x2400	115m ² /h	Production 360x1200 Quality 600x1200	90m ² /h	Production 360x2400 Quality 720x2400	78m ² /h	Production 400x2400 Quality 600x2400
	6 Pass			76m ² /h	Production 360x1800 Quality 600x1200	-		-	
	8 Pass			58m ² /h	Production 360x2400 Quality 600x2400	-		-	
Media Width		3,250mm				3,250mm		3,250mm	
Head Arrangement		4 Heads per row (3 rows)				4 Heads per row (2 rows)		6 Heads per row (2 rows)	
Media Weight		350mm/150kg Optional : 800mm/250kg				350mm/150kg		280mm/150kg	
Dimension (mm)		5,697*1,405*2,288				5814(W)*1167(D)*1720(H)		5014(W)*1150(D)*1665(H)	
Tension Control System		Cylinder Press roller				2 nd roller(Servo motor)		Fabric Press Roller	
Carriage Motor Type		Linear motion / Magnetic type (Precision & Stability)				Belt / Encoder strip type		Linear motion / Magnetic type	
Head Height Adjustment		Z-axis (1mm ~ Max 20mm) (Ultimate Media Versatility)				Z-axis (1mm ~ Max 10mm)		Manual(L : 2mm, M : 3mm, H : 4mm)	
Tension Roller Type		Cylinder type				Weight type		Cylinder type	
Dust Protection		(1) Carriage Fan (2) Dust removal devices(2ea)				None		(1) Printer Rear Cover Fan (2) Dust removal device(1ea)	
Dryer Performance		Front: 7.5kw / Rear: 5kw / Distance : 410mm (Powerful Dual Dryer)				1kw*6ea = 6kw / Distance : 650mm		1kw*6ea = 6kw / Distance : 350mm	
Exterior		Covered				Without Cover		Covered	
Auto-Cleaning System		Single Blade				None		Dual Wiper	
Individual Print Mode		Row1, Row2, Row3				Row 1, Row 2		Row 1, Row 2	
Power Specifications		3-Phase, AC380V, 18kw				3-Phase, AC380V, 13.4kw		3-Phase, AC380V, 13.8kw	
Remote Monitoring Industry 4.0		DGI Monitoring Center DMC (Smart Operation)				None		None	