Cretaprint

Functional Ink Solution
for Ceramics Industry

Functional Ink Solution
For Ceramics Industry

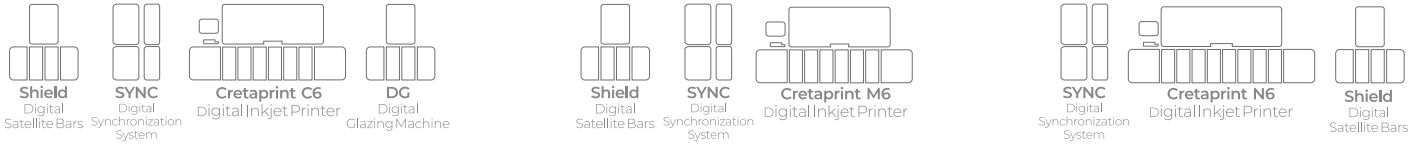


Cretaprint *Shield*

Digital Satellite Bars for Effect Inks and Other Applications

The Cretaprint Shield is engineered around digital core technology. It meets a wide range of custom process requirements, empowering digital ceramic production and enabling unique decorative effects for diverse applications, including architectural ceramics and high-end design.

With a compact footprint and modular, adaptable design, Shield can be flexibly positioned anywhere on a digital production line.It supports smart line connectivity for synchronized multi-machine operation and features the Cretafit AI vision system, ensuring accurate print-to-digital pattern registration to support fully customized production workflows.



TECHNICAL DATA

SPECIFICATIONS	SHIELD	SHIELD+	SHIELD L
Max. printing width	1408 mm	1408 mm	1995 mm
No. of inks	Up to 2	Up to 6	Up to 4
Print direction	Right / Left		
Min. tile thickness	3 mm		
Max. tile thickness	60 mm		
Print speed*	Up to 75 m/min		
Centering printing precision	< 0.3 mm		
MACHINE ASSEMBLY	**SHIELD**	**SHIELD+**	**SHIELD L**
External power supply	Variable (380 / 400 / 440 / 480V)		
Max. power consumption (8 colors)	19 KVA	35 KVA	30 KVA
Electrical phases	3F + GND		
Power connection frequency	50 / 60 Hz		
Pneumatic connection	Line 1:73-123 psi (5-8.5 bar) Line 2:102-123 psi (7-8.5 bar)		
Cabin recommended temp	72-79 °F (22 - 26 °C)		
UPS included	Yes		
DIMENSIONS PRINTER	**SHIELD**	**SHIELD+**	**SHIELD L**
Width	2298 mm	2298 mm	3560 mm
Height	2155 mm	2255 mm	2520 mm
Length	3210 mm	4410 mm	7700 mm
DIMENSIONS CABIN	**SHIELD**	**SHIELD+**	**SHIELD L**
Width	6500 mm	6500 mm	7760 mm
Height	3300 mm	3300 mm	3300 mm
Length	5500 mm	6700 mm	10000 mm

Note: *Print speed depends on printhead model.

PRINTHEADS		
Printhead type	EQ5 L	Dimatix SG 1024 HFL
Native resolution (dpi)	360	400
Drop size range (pL)	30 - 220	35 - 150
Grayscale levels	Up to 6	Up to 4
Firing frequency (kHz)	Up to 41	Up to 20
Laydown gr/m² @25 m/min*	Up to 85	Up to 65

Remarks: * It is related to the ink characteristics.

Cretaprint

Digital Glazing Solutions
for Ceramic Industry

Digital Glazing Solutions
for Digital Ceramic Applications

Cretaprint Shield are satellite bars for digital glazing and other applications to do full digital ceramic decoration.



Sustainability
Along with water-based tile ceramic decoration, digital glazing is a more sustainable process. It is our responsibility to develop environmentally friendly technologies helping to build sustainable manufacturing process.

Efficiency
Reduced glazing costs are feasible thanks to:
- Exact amount of glaze is applied.
- Controlled application of glaze reducing waste both during application and cleaning.
- A more homogeneous glazing process and compatibility with water-based decoration results in reduction of non-quality costs that occur due to defects that often appear after polishing the tile pieces.

Slab manufacturing
Digital glazing is needed because it makes possible a homogeneous application of glaze.

Flexible

- Cretaprint Shield complement your equipment and place them:
  - Prior to tile printing to apply digital glaze.
  - Post tile decoration, to apply glues and other effects.
- No cabin needed
- Ready for bulk tank supply
- Includes transport system
- Escada application to connect Cretaprint Shield with your factory installed systems using standard communication protocol.
- Table in and out options for big slabs pieces.

Versatile

Choose Cretaprint Shield for:

Digital Glazing

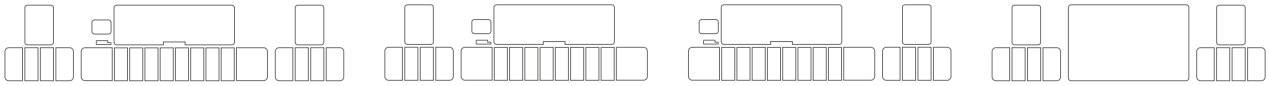
It allows a more uniform and controlled glaze application.

Effects

If you have no chance of upgrading the digital printer, you could use Shield for effects.

Glues application

Available both eco-solvent and water-friendly. They can also be synchronized with rest of your equipment in plant thanks to CretaSync.

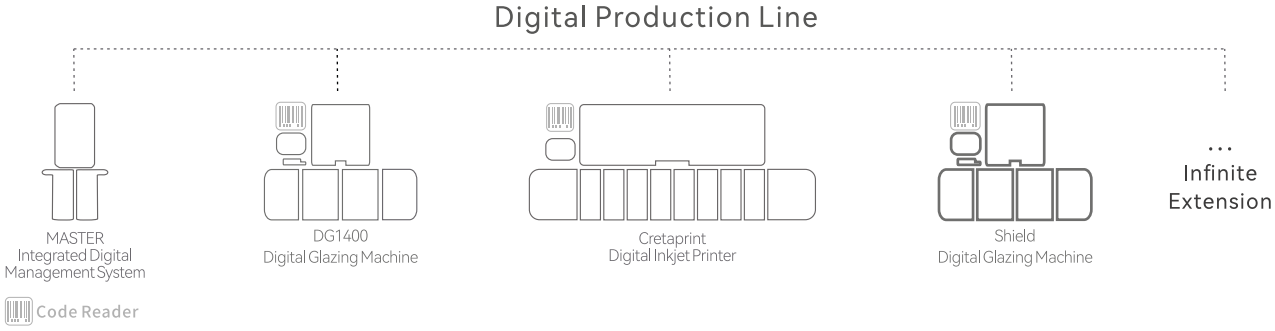


Technical Data	
Max printing width	1440 mm
Number of printing bars	2
Printhead	e·G5
Number of prinheads per bar	14
Resolution	360 dpi
Discharge (per bar)	80gr/sqm (*)
Drop size	25-225 pL
Glaze	Water-friendly digital glaze

(*) 25 m/min d=1,35 g/cc

Digital Printing Solution

DPI Cretaprint offers a complete digital printing solution for the ceramic industry, which is designed and optimized for the industry's specific needs. We offer a wide range of digital printers, digital glazing machine and a complete service program to delivering an efficient solution to customers worldwide.



DPI is a global technology enterprise, specializes in the R&D, manufacturing, sales, and service of high-speed industrial digital inkjet printers. DPI delivers innovative digital printing solutions to diverse industries such as ceramics, building materials, textiles, and packaging.
For more information, please visit www.dpi-t.com