

**efi** Cretaprint C4 Twin  
Digital Inkjet Printer

The easy way to access  
inkjet printing for ceramics



# Industrial inkjet printing for ceramics made simple

With EFI™ Cretaprint C4 Twin printer's dual printhead approach, you can access the most advanced inkjet decoration for ceramic with a reasonable investment. The C4 Twin's doubled printing bars use a single row of dual printheads Xaar 2001+.

Assembling two printing bars grants a simpler machine while EFI technology ensures the robustness and productivity of the printer.



1 **Double printing bars**  
with dual print-head

2 **Cleaning system**  
Advanced new automatic  
nozzle cleaning system

3 **Vacuum:**  
Highly efficient Vacuum  
between bars

4 **Exclusive ink system**  
with reverse flow

5 **Maintenance**  
Low maintenance costs  
and energy consumption

6 **Compact:**  
Compact and reduced size frame, holding  
up to 4 double printing bars.

7 **Printheads:**  
Multihead from 2001+ family  
(GS6, GS12 y GS40) and larger choice  
of ink type: Pigments, Effects and Glue.

8 **Ink System:**  
Ink System with  
automatic reverse flow

13 **Interface**  
Touch screen, user friendly

12 **TAS**  
Tone Adjustment System

11 **Printing width:**  
Up to 695 mm.

10 **Electronics**  
New improved  
EFI Electronics

9 **UPS:**  
Uninterrupted Power  
System included

# Key features of the most convenient ceramic printer

## A reliable choice

Our state-of-the-art digital printers are prepared for 24/7 use in the highly demanding industrial environment of ceramics.

## Tile thickness detector

A dual laser at the material supply entrance detects both the position and the thickness of each tile. Apart from detecting any possible defects on the tiles, it enables the height adjustment of the printing bars.

## Vacuum

The powerful suction system is an outstanding feature of EFI Cretaprint printers. It keeps the entire print-head environment between the printing bars clean and ensures a perfect printing surface.

## Precise transport system

A guiding device at the entrance of the machine lines the tiles while the anti-vibration system assures accuracy and precision while printing.

## Cleaning system

Combined with the vacuum, EFI Cretaprint printers use an advanced automatic nozzle cleaning system that generates significantly fewer permanently missing nozzles. As a result, print-heads have a much longer life and a perfect ink drop placement is ensured.

## Operation and daily maintenance

The accessible sliding bars greatly ease maintenance tasks. Besides, daily ink re-filling operation is quick and easy thanks to the extractable tanks.

## Ink system

EFI Cretaprint ceramic printers use an optimized ink system with a tubing design to avoid pigment-settling. In addition, the manual and automatic reverse flow improve anti-settling even more. The flexible system allows very fast ink changes and ink tests without emptying the tank.

## Software

The software excels especially with its ease of use and its intuitive interface. It is fully touch screen optimised and basic functions are permanently on display. All main functions are accessible in 1-2 clicks.

## EFI Electronics

Genuine EFI electronics are perfectly matched to each print-head type and guarantees absolute control. In addition, all C4Twin printers include an uninterruptible power supply (UPS) as standard to save print heads, print job data and electronics. EFI's system controller offers highest productivity. Fast loading of print files and data transmission is combined with the ability to print while processing files and to modify settings on the fly to make adjustments in production.

## Specific features for tile industry

In addition to features like linearization and ink consumption calculation, the Tone Adjustment System (TAS) guides the user through the process of study and application of changes in tone or intensity to apply to a model. It allows adjustments in the system without use of external software or extensive knowledge in colour management.



## Dual printhead Xaar 2001+



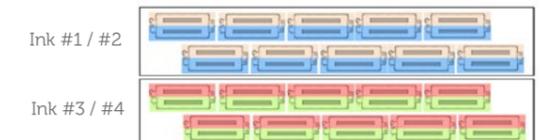
### Ultimate versatility in ceramic tile decoration

- 2000 nozzles, at 720 dpi resolution  
High print quality, to cover a very wide range of designs
- Dual colour capability
  - One colour at 720 dpi
  - Or two colours at 360 dpi each



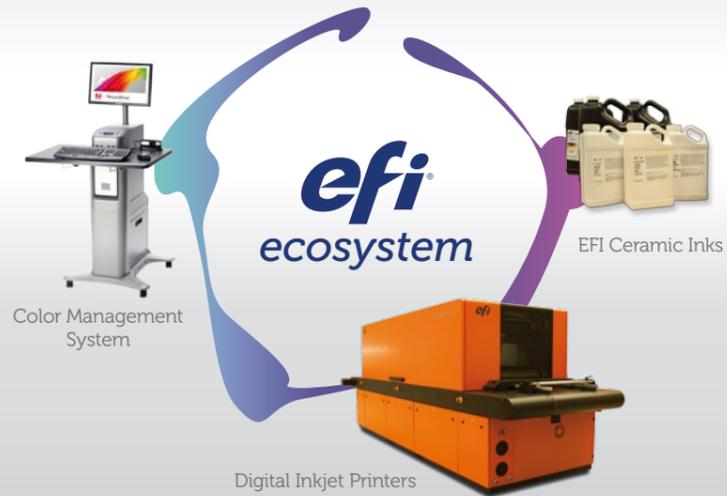
### Cost-effective configuration - 2 inks per bar

- Enables multiple machine configurations with a single printhead
- Provides more options to tile manufacturers to adjust the ink configuration over time to respond to changing design trends



# EFI Ecosystem

We offer top quality decoration, maximum performance and ink savings through our unique EFI Ecosystem approach that gets the printer, ink and Fiery proServer color management system all working together, as a unique concept solution, providing high value to the ceramic tile manufactures.



# Technical Data

PRINTHEAD MODEL	Xaar 2001+/GS6	Xaar 2001+/GS12	Xaar 2001+/GS40
C4Twin printing width (mm)	695	690	690
Printheads width (mm)	70,5mm	70,5mm	70,5mm
Number of nozzles	2000, in 4 rows	2000, in 4 rows	2000, in 4 rows
Native resolution (dpi)	Single colour: 720 Dual colour: 360	Single colour: 720 Dual colour: 360	Single colour: 720 Dual colour: 360
Drop size range (pl)	6-42 pl	12-84 pl	40-160 pl
Greyscale levels	Up to 8	Up to 8	Up to 5
Firing frequency (kHz) jetting max drop volume	6 kHz / 7 dpd	6 kHz / 7 dpd 12 kHz / 3 dpd	6 kHz / 4 dpd
gr/m <sup>2</sup> (25m/min)	Single colour: 20,5 g/m <sup>2</sup> Dual colour: 10,25 g/m <sup>2</sup>	Single colour: 41 g/m <sup>2</sup> Dual colour: 20,5 g/m <sup>2</sup>	Single colour: 78 g/m <sup>2</sup> Dual colour: 39 g/m <sup>2</sup>

Information according to the print-head manufacturer

## Additional configuration devices



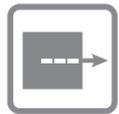
### DTP: 2 formats, 2 designs, 1 printer

Double Tile Printing is a printing solution that allows simultaneous printing of two tiles of different formats even with different designs.



### Cretavision

This AI-system allows associating each one of the designs of a model to different reliefs of a set of tiles. It can, therefore, perfectly fit-in a certain design with the tile's relief, regardless of the order in which the tiles enter the system.



### Table in/out

With the IN and OUT accessory tables, long tiles are aligned before printing for an optimal print quality, reducing the risk of misalignment due to transition from the production line in and out of the printer, thus maximizing printing accuracy. This is recommended for tiles exceeding two times the default entry and exit space on the printer belt.



### Fiery proServer

EFI™ Fiery® proServer for Cretaprint is the most complete color management system for ceramic tile decoration (printing). Used with the Cretaprint digital ceramic printers, the proServer produces the most accurate and consistent color quality for ceramic tile decoration and lowers your ink consumption, regardless of the production conditions.

MACHINE SPECS	
Number of inks	up to 8
Print direction	right / left
Min. tile thickness (mm)	3
Max. tile thickness (mm)	30
Max. tile length (mm)	3000
Print speed (m/min)	up to 50 m / min
Centering printing precision	< 0,3 mm

MACHINE ASSEMBLY	
External power supply	variable (220/380/400/440/480V)
Max power consumption (8 colours)	18 kVA
Electrical phases	3F+GND
Power connection frequency	50/60 Hz
Pneumatic connection	6 bar
Cabin recommended temperature	25-35°C
UPS included	Yes

SOFTWARE	
Image filetype	TIFF and RPF
Rendering time	Variable
Image loading time	Between 1 sec. and 15 sec.
Image changing time during production	≈ 1 sec.
Number of images per model	100
Parallel ripping and printing	Yes
Cretavision: reliefs recognition system	Optional
Dobule tile printing	Optional

MACHINE DIMENSIONS	
Width	1700 mm.
High	1900 mm.
Length	4000 mm.

CABIN DIMENSIONS	
Width	3700 mm.
High	2800 mm.
Length	5500 mm.



# EFI fuels success.

Used by tens of millions of professionals around the world, EFI is the only technology company that creates products and services exclusively focused on helping businesses and enterprises be more successful.

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