Cubik

Single-pass Inkjet for Tableware Decoration

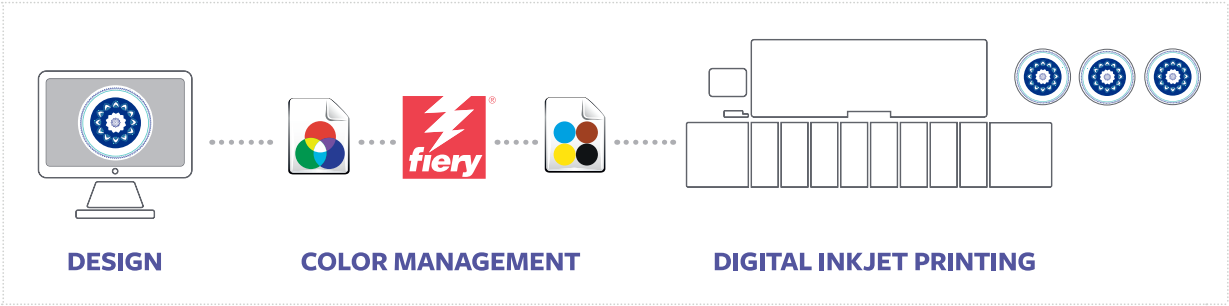
The power of digital printing comes to tableware decoration

Digital inkjet printing turns tableware into a **profitable opportunity**

Digital inkjet printing is a new option for tableware decoration that allows you to print direct to ceramic plates and dishes. Inkjet is a contactless technology where droplets of ink are deposited onto the plates in a single pass as they pass under the printheads through the printer.

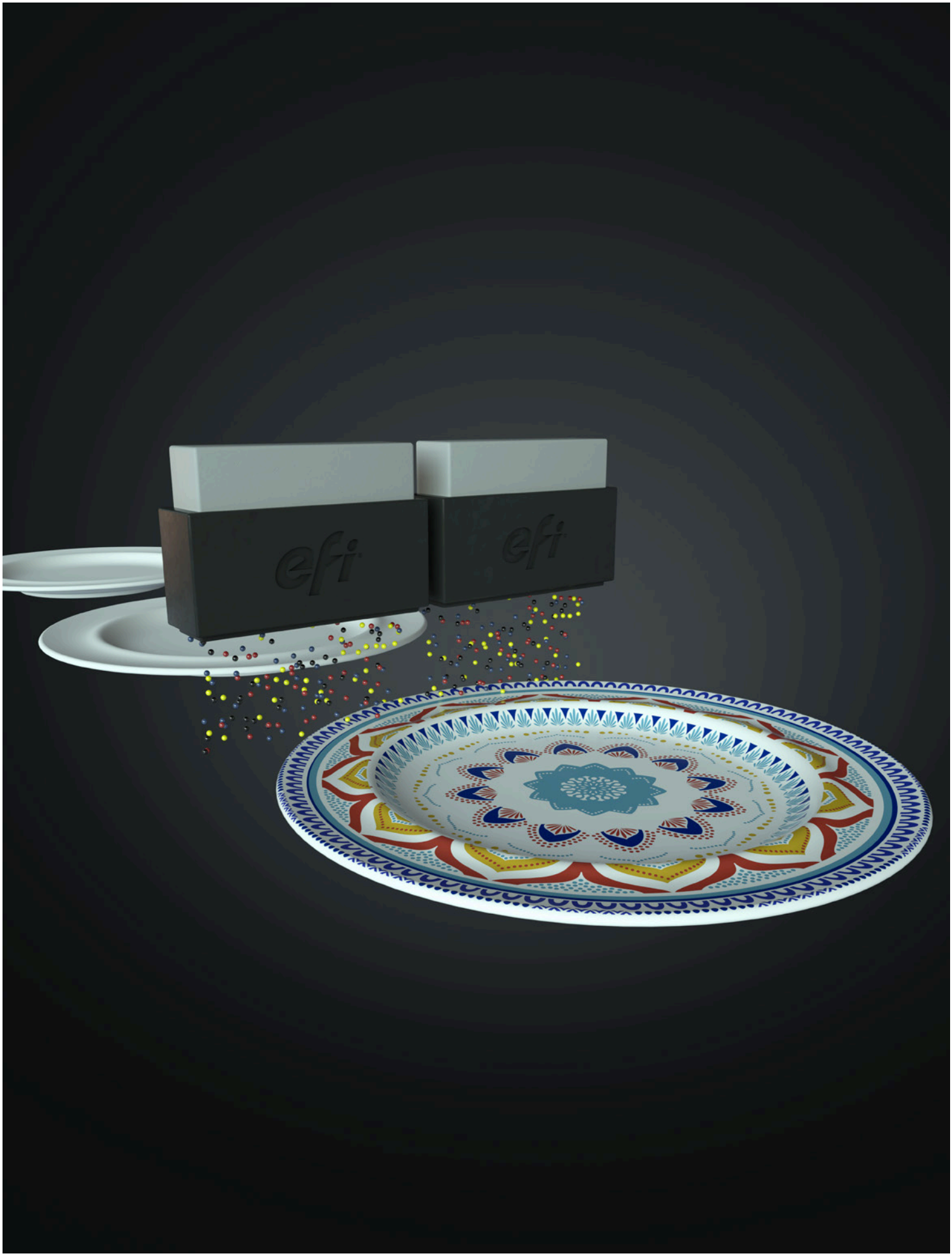
- Eliminate the need for engraved plates and silicone pads
- Print edge to edge
- Print on reliefs

The digital printing process for tableware decoration



Digital inkjet printing is a simplified/streamlined decoration process from file design to kiln:

1. File design
2. Color management
3. Prototyping and proofing
4. Single-pass inkjet printing
5. Firing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Set your table with the power of EFI

EFI™ is a global technology company leading the worldwide transformation from analogue to digital imaging with products that increase competitiveness and boost productivity.

EFI develops breakthrough technologies for industries where imaging is a core part of the finished product, and offers a wide range of printers, inks, and color management software.

EFI Cubik is an industrial digital inkjet ecosystem for tableware decoration that makes the adoption of inkjet printing technology easy with all the elements needed for the brilliant decoration of tableware.

Inks

An ink set that results in defined decorations and a wide color range. Colors available: blue, cyan, red brown, yellow, ochre, black and white

Color management software

The Fiery® proServer is EFI's dedicated color management software for ceramic inkjet decoration. Color management considers manufacturing conditions to guarantee color consistency from batch to batch and have full control of the printed results.

Single-pass inkjet printers

- Ready to operate in industrial environments 24/7
- Available in 27.95 in printing width
- Able to decorate pieces up to 4.73 inches high
- Optional artificial vision system at the entrance of the printer adjusts the graphic to the exact position of the plate and manages different shapes (round, oval, and rectangular)
- Printing speed up to 164 linear ft/min

Benefits of inkjet printing for tableware decoration

Streamlined process

- No need for engraved plates, silicone pads or decals
- Reduced inventories
- No ink mix stock
- Fast set up and model changes
- No highly skilled operators needed
- Higher productivity
- One set of inks for a wide color range

Time to market

- Faster prototyping
- Easy and fast new product development
- Color consistency
- Cost-effective small lots
- Flexible

Boost business

- New, value-added products
- Enhanced decoration possibilities
- Differentiation
- Customization

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Cubik: The proven industrial printer that's **low maintenance** and **easy to operate**

PRINTER ENTRANCE

- Adjustable guides ensure smooth article conveyance
- A dual laser detects both the position and height of each piece so that the printing bars adjust their position to the plate's height
- An optional artificial vision system at the entrance of the printer helps adjust the graphic to the exact position of the plate

TRANSPORT SYSTEM

High precision conveyor belt system with optimal power control and an automated cleaning system

INK DELIVERY SYSTEM

- Total ink recirculation avoids pigment sediments and removes air in the system
- Constant temperature and pressure control

INKJET PLATE

High precision plate for plug and play that assures better printhead alignment and simplifies future adjustments

AUTOMATIC NOZZLE CLEANING SYSTEM

- Non-contact wiping head cleaning system generates significantly fewer permanently missing nozzles
- It also reduces downtimes, thus increasing productivity

INK TANKS

- Slide, accessible tanks
- Level and temperature control
- Easy clean and refill

FRAME AND SEPARATED PRINTING BARS

- Compact and reduced frame, holding up to 8 printing bars
- Sliding bars are accessible for daily operations and maintenance tasks
- Vacuum system between printing bars for a highly efficient steam and mist extraction

USER INTERFACE

- Multi-language and touch screen
- Intuitive user interface with direct access to main functions, printing bars and transport system
- Alarm status is always on screen

User applications:

- TAS for automatic tone adjustment
- Fine tuning for banding compensation
- Nozzle out for clogged nozzle compensation
- ID printing for master plates and traceability

ELECTRONICS AND SOFTWARE

- Proprietary electronics and powerful software for data processing
- Bidirectional communication with printhead enables constant feedback

TECHNICAL SPECIFICATIONS

MACHINE SPECIFICATIONS	
Maximum print width	27.95 in
Number of inks	Up to 8
Print direction	Right / Left
Minimum substrate thickness	0.12 in
Maximum substrate thickness*	4.73 in
Print speed	Up to 164 ft/min
Centering print precision	<0.01 mm

**Other upon request*

MACHINE ASSEMBLY	
External power supply	Variable (380/400/440/480V)
Max. power consumption (8 colors)	18 KVA
Electrical phases	3F+GND
Power connection frequency	50/60 Hz
Pneumatic connection	2 lines 123 psi each
Cabin recommended temperature	72-79 °F
UPS included	Yes

PRINTER DIMENSIONS	
Width	5.41 ft
Height	6.40 ft
Length	13.12 ft

CABIN DIMENSIONS*	
Width	12.14 ft
Height	9.19 ft
Length	18.04 ft

**Cabin is not supplied but is mandatory*

SOFTWARE	
Image file type	TIFF, RPF and PSD
Rendering time	VARIABLE
Image loading time	1 - 15 s (depending on image size)
Image changing time during production	1 s
Parallel RIPing and printing	Yes
Number of images per model	100
Print an image without stopping	Yes

PRINTHEADS	
Printhead width	4.26 in
Number of nozzles	1536
Native resolution (dpi)	360
Drop size (pL)	13 - 98
Grayscale levels	Up to 8
Firing frequency (kHz)	10.2 - 28
gr/m²	Up to 45

Printer in development, specifications subject to change without notice.

Let’s be brilliant. Together.

We understand you want breakthrough technologies to lead you through your digital journey. That’s why we’re passionate about driving your business growth with a scalable portfolio of products, solutions, services, support, and world-class partnerships for the manufacturing of signage, packaging, textiles, ceramic tiles, building materials, commercial print, and personalized documents with a wide range of printers, inks, digital front ends, and workflow software. Our unwavering commitment is to increase your profits, cut costs, improve productivity, and optimize efficiency — job after job, year after year. We’re obsessed with your success. And we definitely believe we have the right people, technology and experience to help your business achieve its goals. Visit www.efi.com or call 800-875-7117 for more information.

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