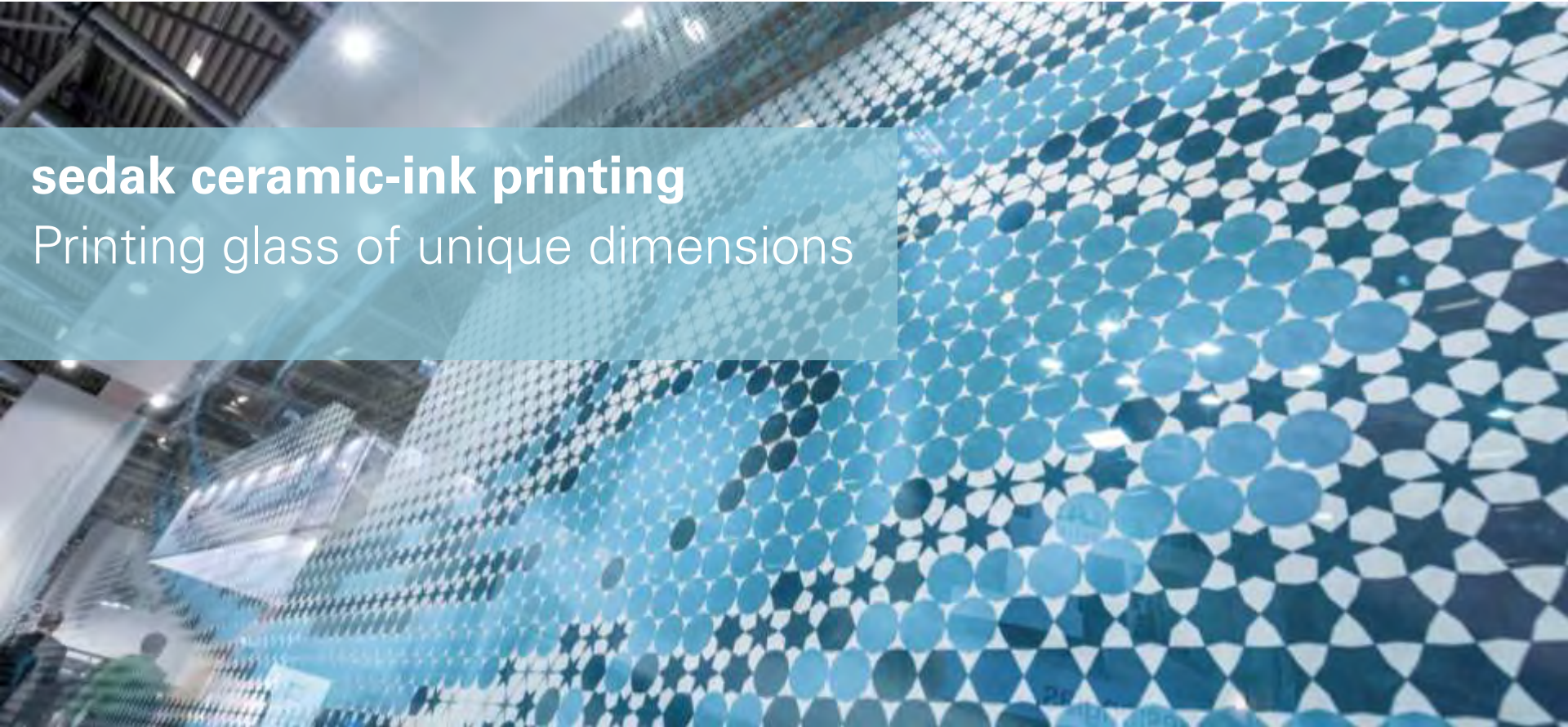


## sedak ceramic-ink printing

Printing glass of unique dimensions



## sedak printing know-how

Ceramic-ink digital printing or full-coverage roller-coater technique

### Colors

The wide color range of ceramic inks contains pre-mixed and digitally mixed colors.

Permanent color brilliance of the facade

Black and white colors are „Side One“ suitable, e.g. as colors that prevent slipping.

### Subsequent processing

Processing into insulating and safety glass possible



## sedak printing know-how

Ceramic-ink digital printing or full-coverage roller-coater technique

### **Durability**

Sub-micron glass frits and natural pigments are bonded to the glass during the tempering process giving ceramic inks an unmatched resistance to scratching, UV radiation and the weather.

### **Sustainable Architecture**

The ceramic inks are non-toxic in its liquid and printed form making the glass fully recyclable.





**roller coater**  
printing options



## roller coater

### Capabilities

Full-coverage and single-color printing

Very homogeneous ink application

Opaque quality possible

Application e.g. with:

- roofs or canopies (sun protection)
- counter prints



## printing

### Facts & figures

#### roller-coater printing (Cefla Large)

<b>max. size</b>	3300mm x 20000mm	130in x 787in
<b>thickness glass</b>	6mm - 19mm	
<b>thickness coating</b>	Approx. 60 $\mu$ wet coating thickness	
<b>colors</b>	ceramic ink, heavy-metal free, metallic available	

## printing

### Facts & figures

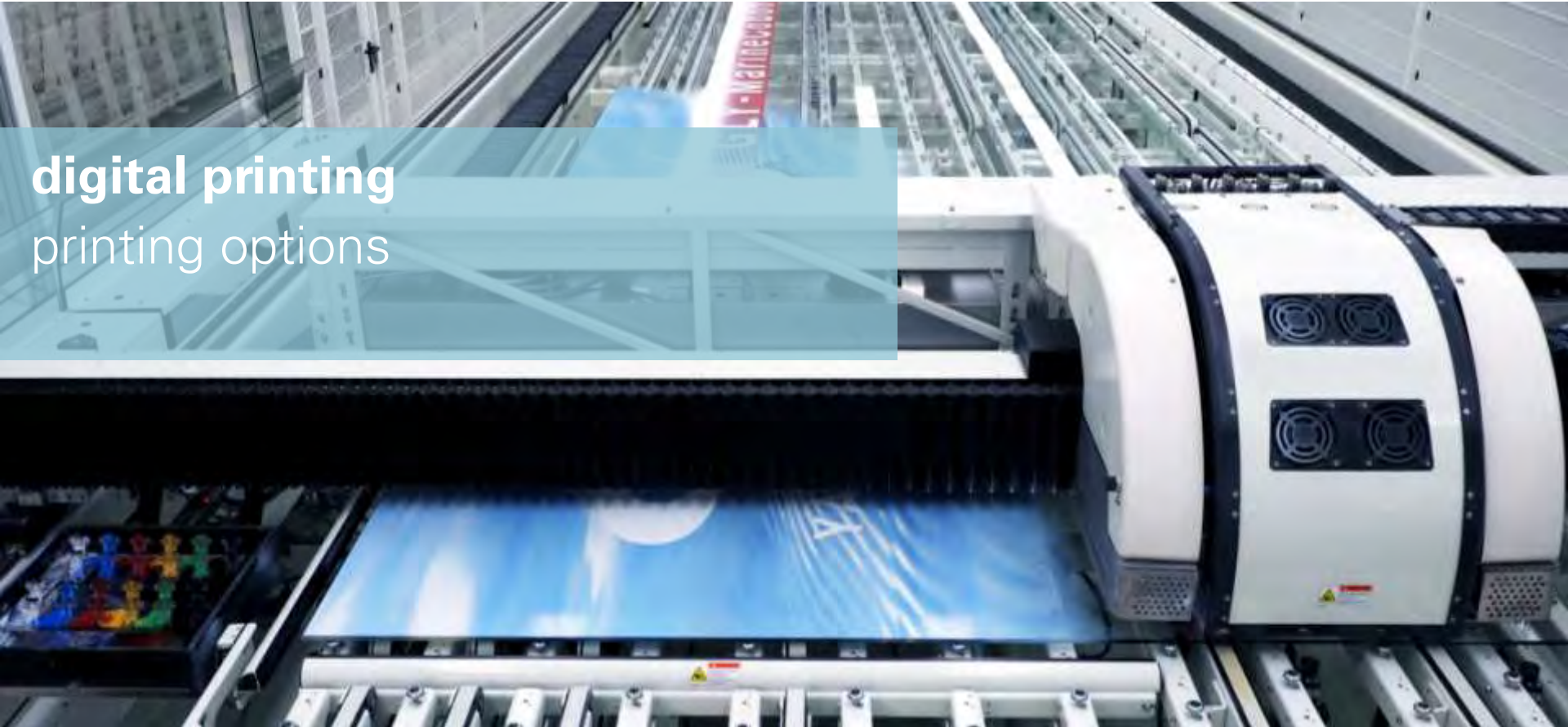
#### Roller-coater printing (Cefla Small)

<b>max. width</b>	12000mm	472in
<b>thickness glass</b>	6mm - 19mm	1/4in - 3/4in
<b>rollers</b>	engraved roller	
<b>colors</b>	ceramic ink, heavy-metal free, metallic possible	

#### Edge-Coater

<b>max. width</b>	600mm	23in
<b>thickness coating</b>	80 $\mu$ - 120 $\mu$ (wet coating thickness)	

**digital printing**  
printing options





## ceramic-ink digital printing

### Capabilities

Prints based on six basic colors

Resolution up to 1024dpi

Color transitions possible

Thin lines, concentric circles, dots at different levels of intensity and opaqueness

Complex, multi-color grid designs

Frameless prints



## ceramic-ink digital printing

### Advantages / strengths of digital printing

Variable thickness of color application

Transparent, opaque as well as multi-layer printing

Higher saturation due to counter print

Flexibility thanks to digital technology

Design easily and cost-efficiently reproducible ( $\neq$  screen printing)



## digital printing

### Possible applications

#### Decorative:

- Interior design
- Photorealistic designs

#### Functional:

- Sight protection
- Sun protection
- Printing of serial numbers and barcodes
- Black and white colors are „Side One“ suitable, e.g. for slip prevention on steps.



## digital printing

### Facts & figures

#### Ceramic-ink digital printing

<b>max. size</b>	3300mm x 18000mm	130in x 709in
<b>max. thickness</b>	6 – 19mm	1/4in - 3/4in
<b>max. weight</b>	2822kg	6221lbs
<b>type of color</b>	ceramic ink, heavy-metal free	
<b>coating</b>	6µm – 80µm	
<b>precision</b>	± 20µm/m	



## digital printing

### Facts & figures

#### Ceramic-ink digital printing

<b>tolerances printing size</b>	± 2mm (8mm - 9000mm); ± 4mm (9000mm - 18000mm)
<b>colors</b>	6 basic colors: RAL 9005, RAL 9010, RAL 3009, RAL 6001, RAL 5005, RAL 1016 digital mixtures
<b>application area</b>	interior/exterior
<b>picture formats</b>	PDF, PS, EPS, AI, TIFF, BMP, JPEG, DXF
<b>printing resolution</b>	max. 1024 dpi



**digital printing**  
possible applications

## double vision

Sun protection from inside – sight protection from outside

Two print layers lying exactly on one another for in diverse colors or gradients

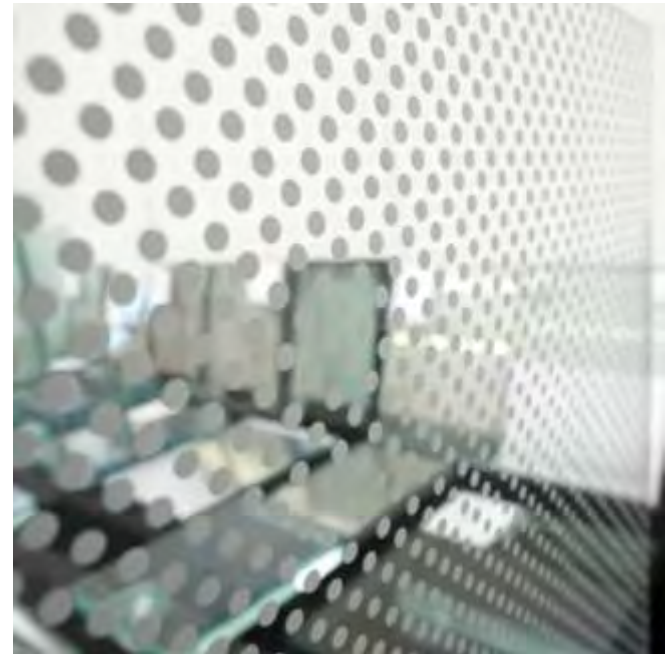
Basic pattern freely designable

Different appearance:

e.g. dark dots on the inside for a hardly noticeable sun and glare protection; light-color dots on the outside for sight protection inwards.

sedak capabilities:

- Precise positioning before each of the two printing runs
- Double-vision technology in different patterns and colors



# House of European History, Brussels

Glass expansion of a historic building





decorative application

Digital print as etching imitation



## decorative application

Imitation printing: cost-efficient and weight reducing



decorative application

Writing for a creative facade design



functional application

Dot grid for sight protection





# industrial facade

Reducing solar radiation



medical sector

decorative: photo-realistic printing for an ICU



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