PLASTICS DECORATING

IN-MOLD IMDA DECORATING ASSOCIATION

Digital Heat Transfers for 3D Plastic Parts: Techniques and Applications

XEIKON

A DIVISION OF FLINTGROUP

CDIGITAL

HEAT TRANSFER LABEL SOLUTION PARTNER

PRESENTER

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LABELS & PACKAGING
HEAT TRANSFER LABEL SUITE

XEIKON

A division of **Flint**Group

- Founded in Baltimore in 2001 to purchase and operate the first U.S. based all digital print system to be used to decorate optical media – CD's and DVD's.

- In mid 2005, began adapting its process for general product decoration.

- In early 2006, acquired the patent (U.S. Patent No. 6,656,306) on its process and began providing digital heat transfers to a broad range of product decorating clients.

- Today, CDigital heat transfers can be found on over thousands of plastic, glass, and metal products.
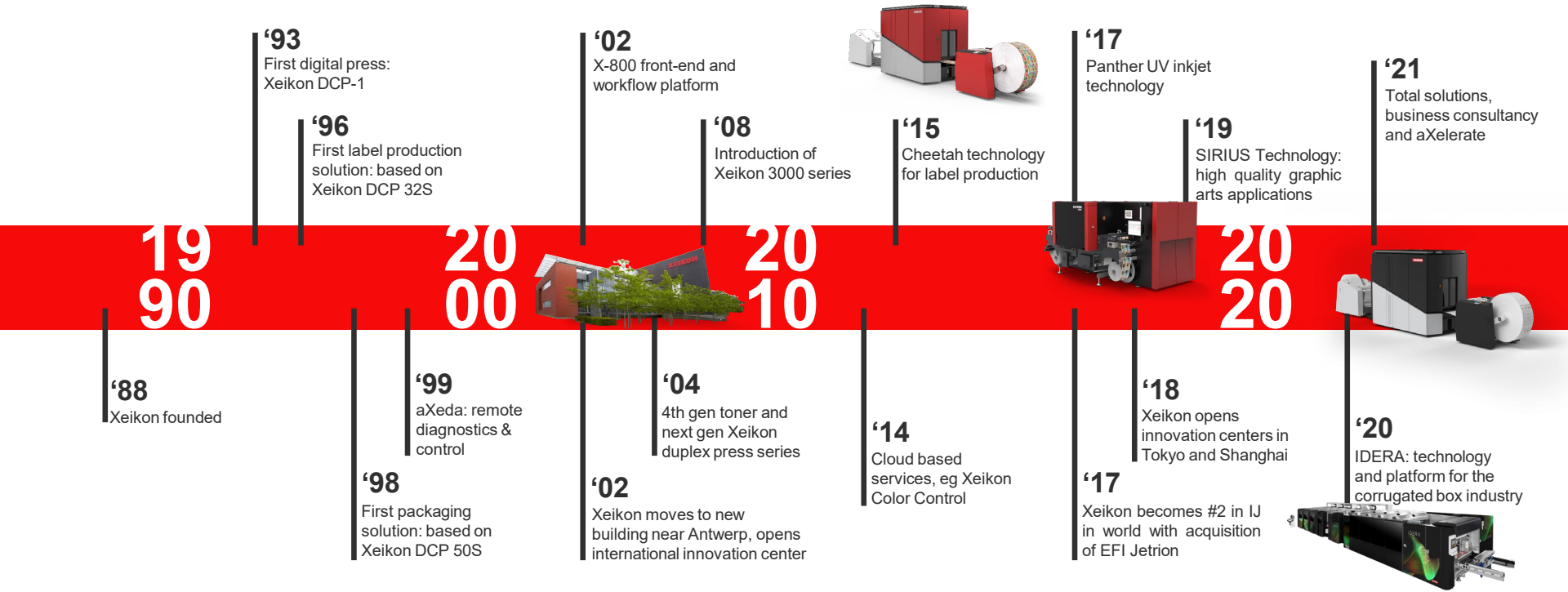
1.5 € billion

5,000 people

Privately owned by Goldman Sachs & Koch Industries

Part of

*Flint*Group

Print Industry Leader

130 sites

40 countries

35 years of innovation for quality, productivity and sustainability

XEIKON

'93
First digital press: Xeikon DCP-1

'96
First label production solution: based on Xeikon DCP 32S

'02
X-800 front-end and workflow platform

'08
Introduction of Xeikon 3000 series

'17
Panther UV inkjet technology

'15
Cheetah technology for label production

'19
SIRIUS Technology: high quality graphic arts applications

'21
Total solutions, business consultancy and aXelerate

19 90
20 00
20 10
20 20

'88
Xeikon founded

'99
aXeda: remote diagnostics & control

'04
4th gen toner and next gen Xeikon duplex press series

'14
Cloud based services, eg Xeikon Color Control

'18
Xeikon opens innovation centers in Tokyo and Shanghai

'20
IDERA: technology and platform for the corrugated box industry

'98
First packaging solution: based on Xeikon DCP 50S

'02
Xeikon moves to new building near Antwerp, opens international innovation center

'17
Xeikon becomes #2 in IJ in world with acquisition of EFI Jetrion

Our purpose & values

We bring **colour** to the world

Accountable   **Collaborative**   **Trustworthy**   **Sustainable**

A ccountable:

We take responsibility for our actions and deliver on our commitments.

C ollaborative:

We act in a collaborative and respectful manner. We work in teams to leverage our diverse talents and expertise.

T rustworthy:

We act with integrity and honesty, to do the right thing every time.

S ustainable:

We act sustainably – we will reduce our impact on the environment for the benefit of a cleaner, safer, brighter future.

XEIKON

Rely on us.

Sustainable print
will be the only affordable print

XEIKON

> Dry toner is the most sustainable printing technology

> Ecovadis silver sustainability rating

SUSTAINABLE DEVELOPMENT GOALS

SILVER
2022
ecovadis
Sustainability Rating

Food safe prints at top speeds with our Cheetah series
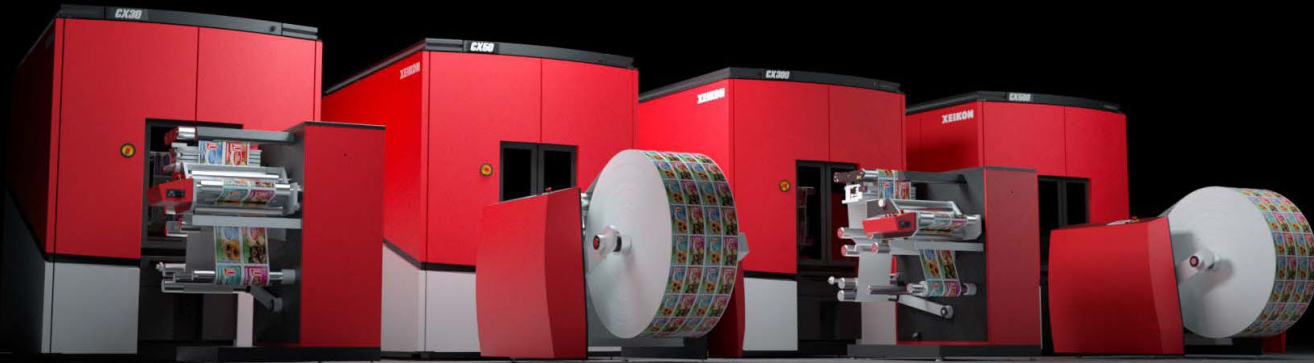
XEIKON CX30

Embark on your digital label printing journey with the latest generation press.

XEIKON CX50

The digital dry toner press for wide format applications is an appropriate choice when looking at digital for the first time with future plans to expand and grow.

XEIKON CX300

Faster running speed, lower operating costs and unseen flexibility to meet complex customer demands without compromising quality, reliability or consistency - whatever the label or volume.

XEIKON CX500

The most cost-effective press for high volumes. An appropriate choice for printers and converters looking at digital with future plans to expand and grow their operation.

PMS   Xeikon 3500   XRN500r2   Heat transfer applicator
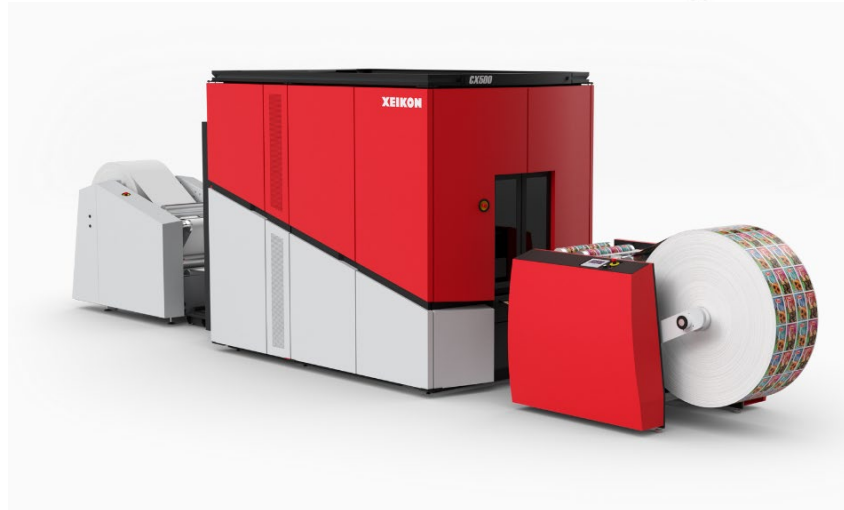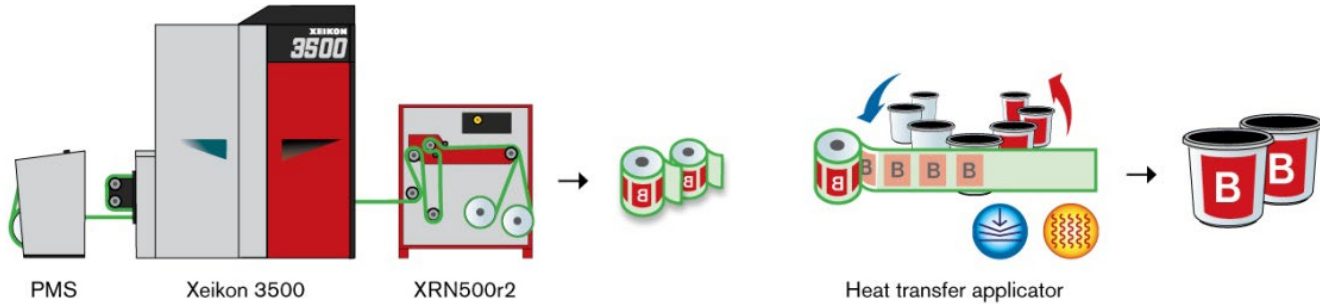
Industrial Heat Transfer

XEIKON

- Products are consumer goods
- Price is compared to other decoration methodes (self adhesive labels etc)
- High in quality
- Per unit cost is low (due to volume)
- Price of the end-product is lower/unit
- Digital competes against flexo, gravure HTL
- Good mechanical resistance

Why HTL?

Brand Image Improvement and Protection

- Improved performance due to high label placement accuracy
- True "No-Label" look
- Durability that will stand out on the shelf
- No flagging or wrinkling
- Anti counterfeiting properties
- Label becomes a part of bottle, can not be peeled off

Environmetally friendly

- Label can fused with PP, HDPE, LDPE, LLDPE, PET (Versatile use)
- Label can be recycled with container
- Reduces waste.   Less Material involved verse PSL.

Digital Heat Transfers with Xeikon

- Bringing digital technology to the established heat transfer industry.

- Making the digital decoration of flat and shaped products efficient and affordable using conventional hot stamp equipment.

Digital vs Other Print Processes

- No extensive pre-press, no physical printer set-up.

- No dyes, no inks, no screens – only ecologically benign dry toner.

- Single step process using cmyk+w – prints a multicolor image in one step.

- No additional curing or drying needed.

Examples of 3D Applications

- Plastic soap dispensers
- Wood barstool seats.
- Leather billfolds and portfolios.
- Plastic cups.
- Cosmetic Containers
- Plastic bag tags.
- Picture frames and decorative rails

- Credit cards
- Name Badges
- Golf balls
- Sports equipment
- Candles
- Poker chips
- Toothbrushes
- Drink coasters
- Paper gift bags.

Substrates

Paper	Polyurethane	Styrene
Card	Leather	Polycarbonate
Paper Coasters	Vinyl	Acrylic
Corrugated Paper	Hard Rubber	Nylon
Plastics	Wood	Wax
Polypropylene	MDF (Masonite)	Cosmetic tubes
Polyethylene	Plywood	Composite clay
ABS	Laminates	Lacquers and paints
PET	Stamping Foils and	Holograms

With additional surface treatment

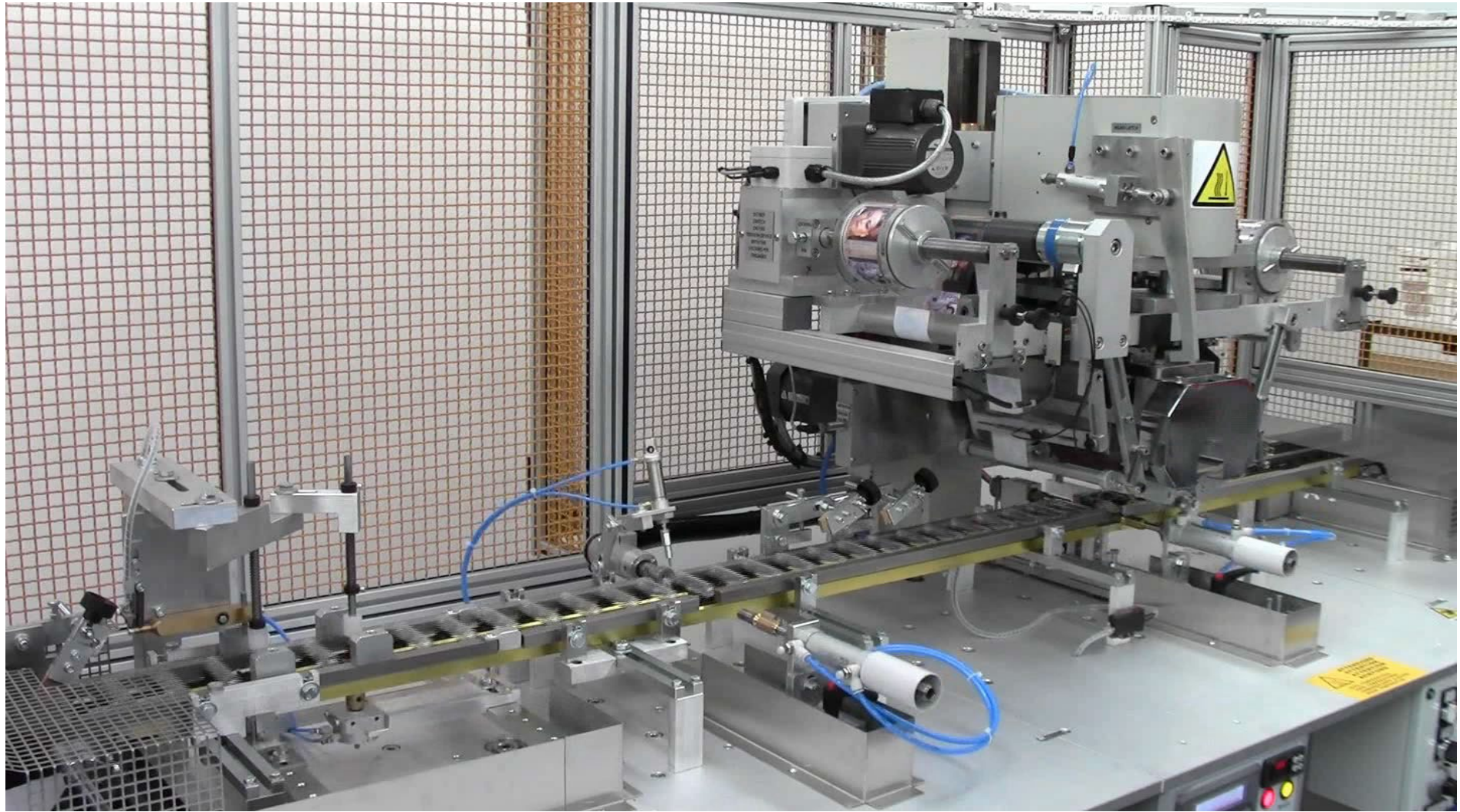|		
Glass	Ceramics	Metal

Benefits

- One color, multicolor, process color in one print pass.

- Economical for runs of any size, but especially for full color short runs.

- Fast turns on short and long runs. Long runs can be segmented into inventory reducing shorter runs.

- Variable data capable– barcodes, numbers, photos, names, addresses, etc.

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3D Applications

THANK YOU FOR YOUR TIME

Any questions / ideas?