

Technology overview - Print

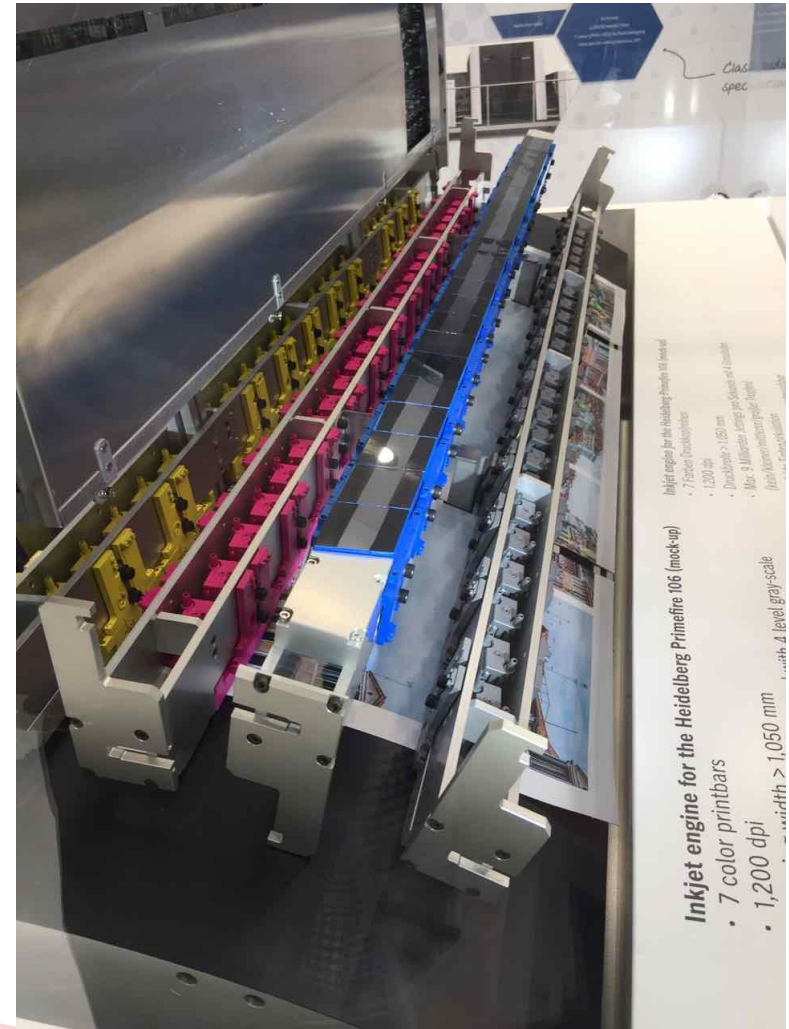
Albert Yeung
Golden Cup Printing

2016 · 6 · 20

Tradition x Digital

Heidelberg x Fujifilm

Primefire 106+L : 7C 3,500 B1 SPH



Next Commercial Print Presentation at 11:00 am.



HEIDELBERG

Next Co



Komori x Landa

Impremia NS40 : 7C 6,500 B1 SPH



KOMI

OPEN NEW PAGE

Impremia NS⁴⁰ KOMORI CORPORATION

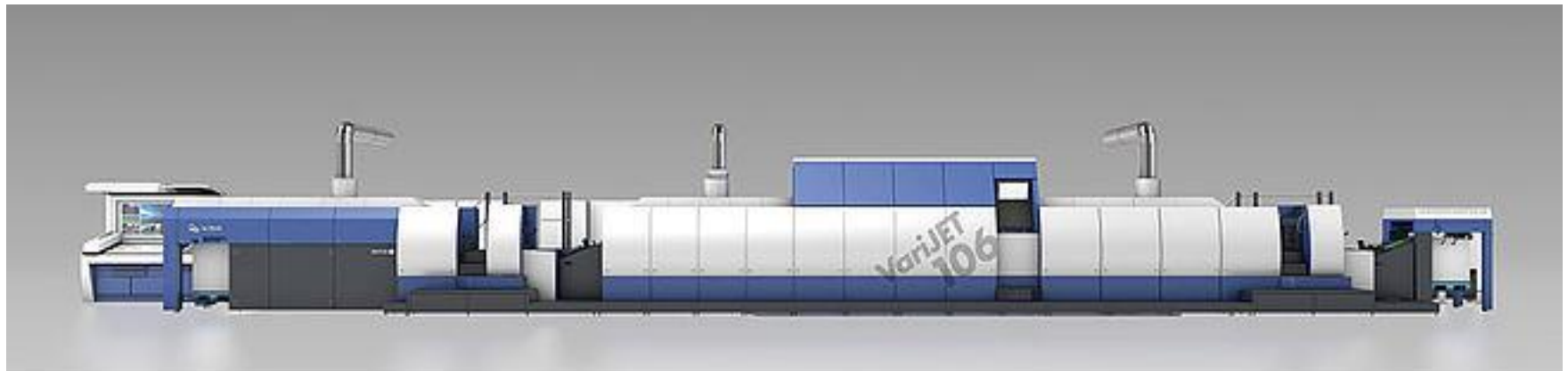
Impremia NS⁴⁰ 40" Monochrome Monographs Printing System

Specifications	
Number of colors	4 CMYK + 1 Variable Ink
Max. print resolution	7,200 x 7,200 dpi
Printing speed	6,000 ipm
Max. sheet size	720 x 1,200 mm
Sheet thickness	0.18 ~ 0.5 mm
Dimensions	
Length	1,100 mm
Width	4,000 mm
Height	3,400 mm

In Japan, please refer to the product name "Impremia NS⁴⁰" as the model name. The product name "Impremia NS⁴⁰" is the registered trademark of Komori Corporation. The product name "Impremia NS⁴⁰" is the registered trademark of Komori Corporation.

KBA x Xerox

KBA VariJET 106 : 7C 4,500 B1 SPH



Post Inkjet Options
(Double) Coating + Drying
Offset Units
Screen Print + Drying
Rotary Die-Cutting

**High-performance
KBA VariDry
Dryers**

Inkjet Module
Offset quality
using 7 colours

Pre-Treatment & Drying
Corona Treatment
Primer + Drying
Opaque White
Offset Units
Cold Foil Application

KBA
KBA
Koenig & Bauer C

xerox
xerox



KBA VariJET 106
Inkjet Marking Module

xerox



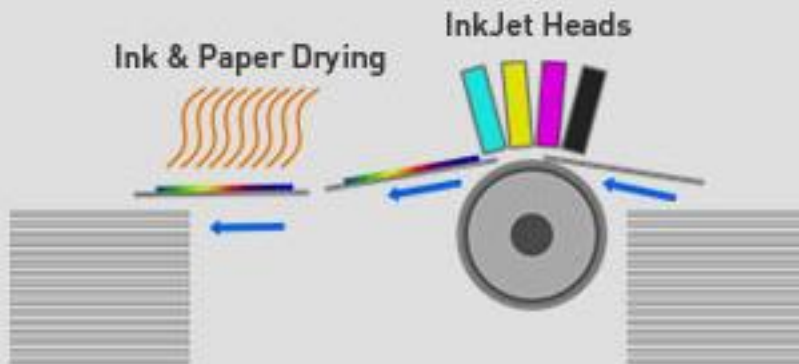
PRINTHEAD TECHNOLOGY	
◆ PRINTING WIDTH :	1075,15 MM
◆ PRINTING SPEED :	4.500 BS SHEETS/H
◆ RESOLUTION :	1440 x 1440 DPI
◆ NUMBER OF NOZZLES :	64 000
◆ INK :	WATER BASED
◆ DROP SIZE :	2,5 PL
◆ DATA :	FULL VARIABLE
◆ MAINTENANCE :	FIELD REPLACEABLE HEADBLOCK

Nano. The Power of Small.



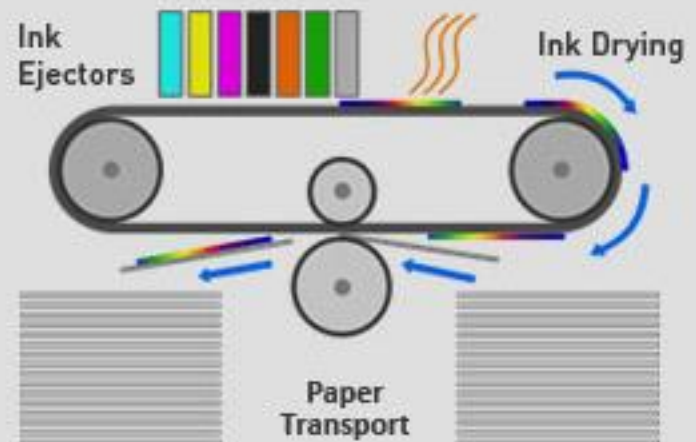
Landa – NANOGRAPHY

Landa S10 : 7C 13,000 B1 SPH



Inkjet – water base

- jetted directly onto paper
- Wet image soaks substrate
- Requires absorbent substrates
- High energy for drying
- Limited area coverage



Nanography

- Ink is ejected onto blanket
- Dry image transferred to substrate
- Can be applied to any substrate
- Less energy for drying
- Unlimited area coverage

S10. Nanography.

Digital. Folding Carton. Display. Signage.

- 13,000 B1 sph
- Offset quality
- Any paper
- Lowest print cost

Landis



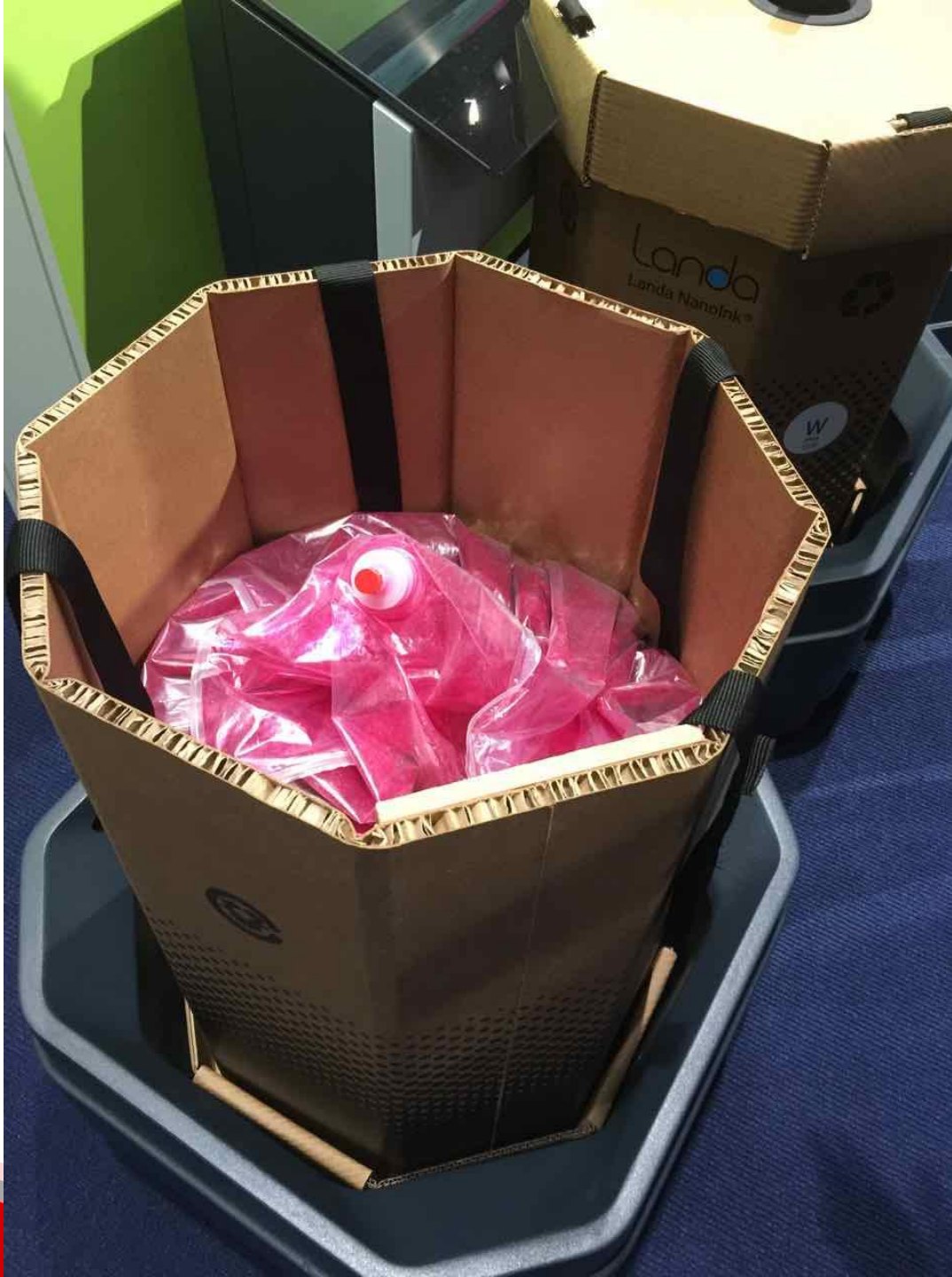






 Packaging
Recycle





Digital webfed presses

Landa W10

4-8C W:1092mm 200M/min



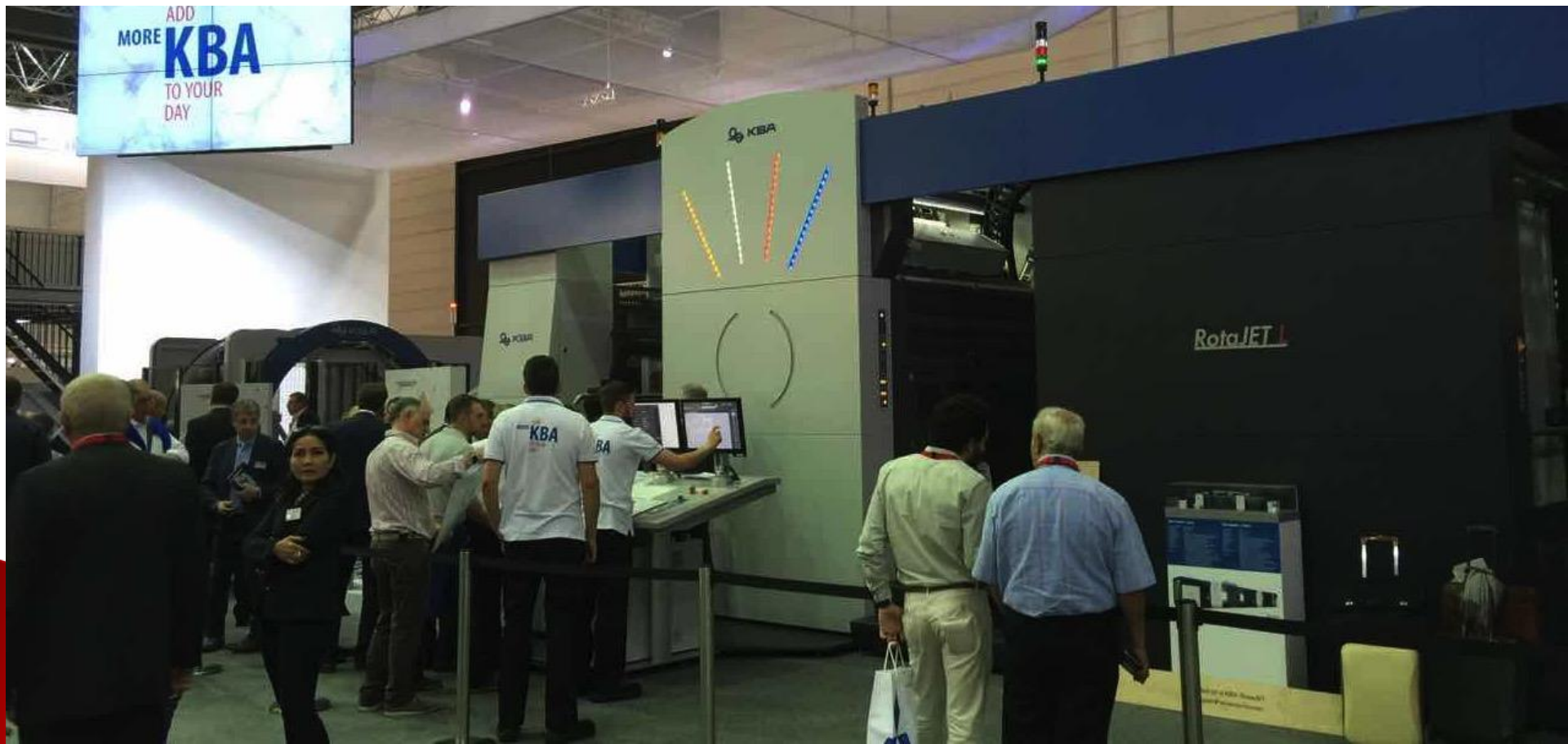
HP T490HD

4+4C W:1066 300mpm



KBA RotaJET L

4+4C W:1380mm 300mpm



Kodak Prosper 6000C

4+4C W:646mm 300 mpm

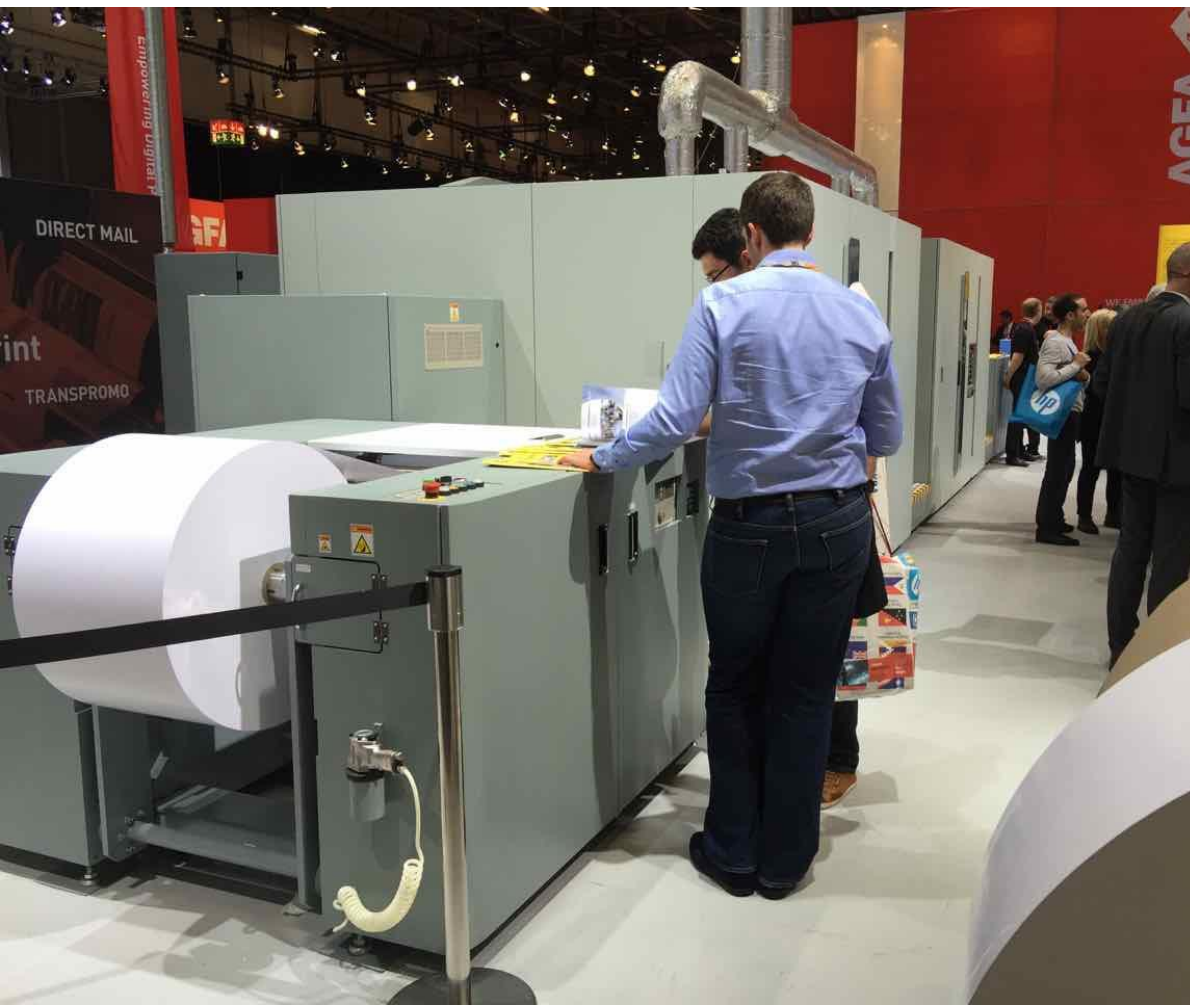


Kodak ULTRASTREAM

600 x 1800dpi , 150mpm



Canon Océ ColorStream 6000



Xerox Trivor 2400 Inkjet Press

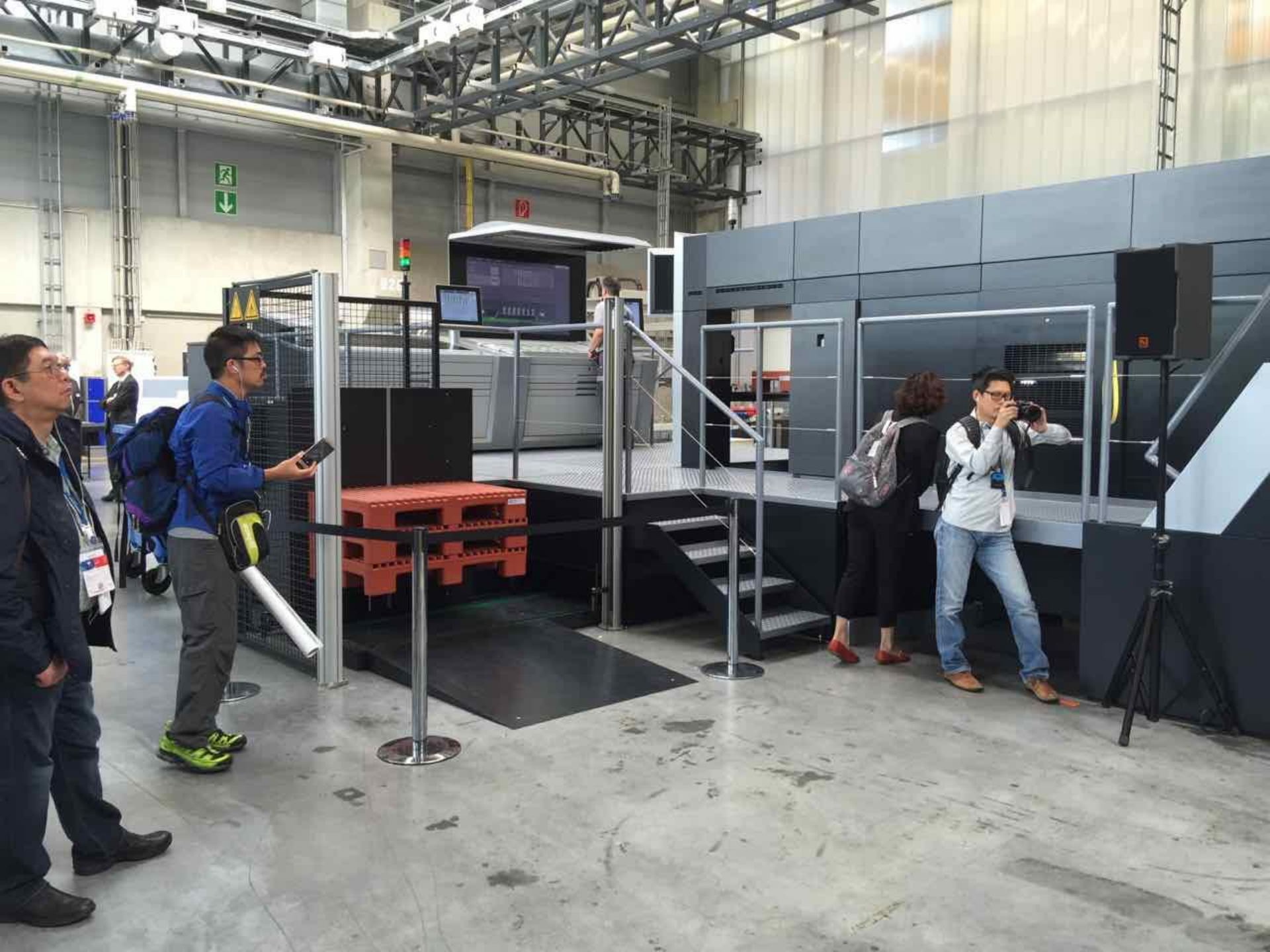


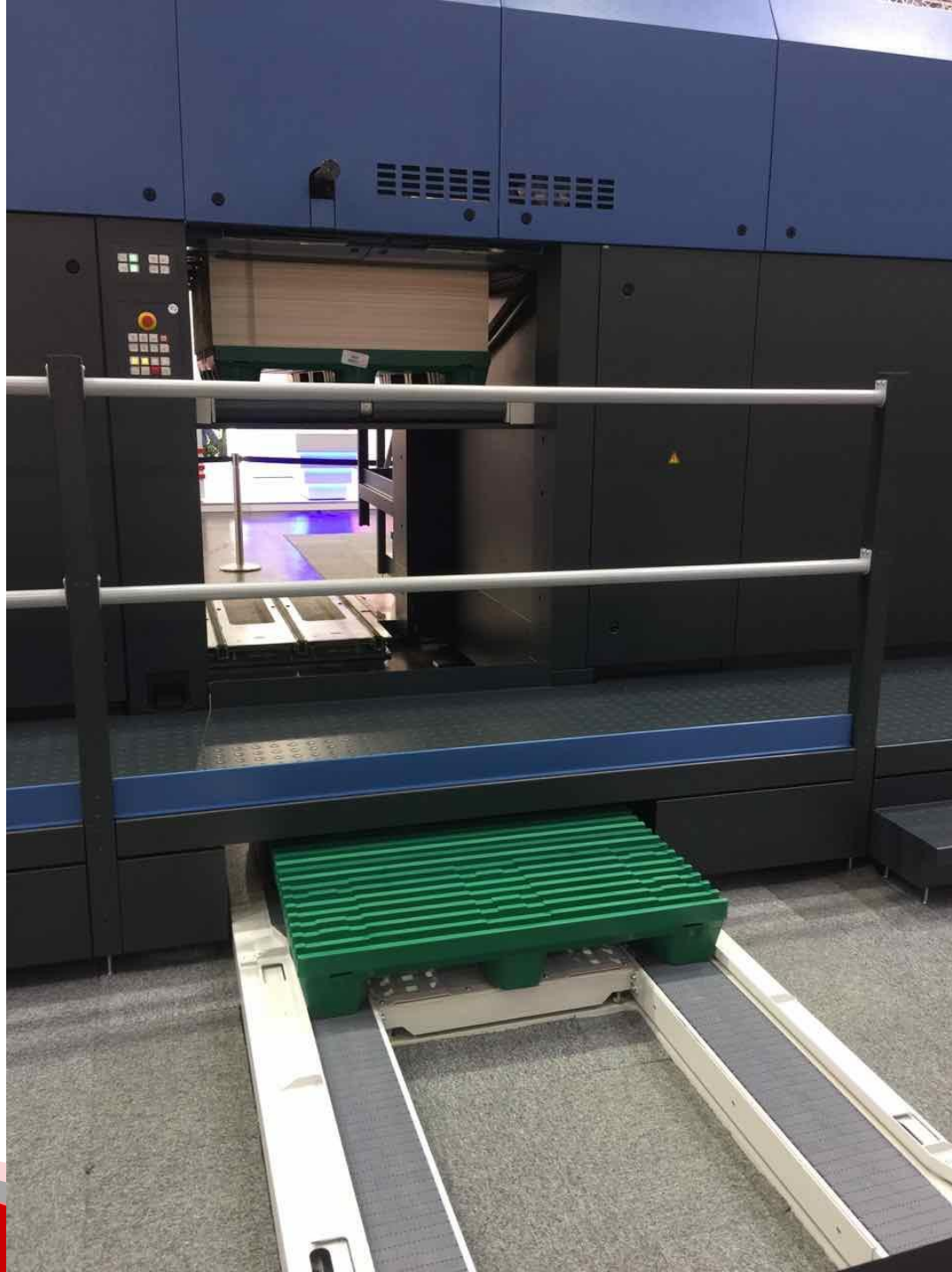
HP Indigo 50000



Traditional Offset

- Synchronized automatic plate loading
- Automatic registration
- Automatic blanket and impression cylinder cleaning
- Inline colour adjustment
- Inline quality checking
- Non-stop automatic paper loading and unloading
- LED-UV curing
- inline coil foil
- Inline diecutting







KBA

KBA

KBA

 KBA

Printing with LED-UV

 KBA



Speedmaster XL 75-8+LYVL
Anicolor 2



Peak Performance
Speedmaster
Anicolor
EIDELL



BRAND A BRAND A
MARKETING MARKETING
WELCOME BIENVENUE WILLKOMMEN BIENVENIDO

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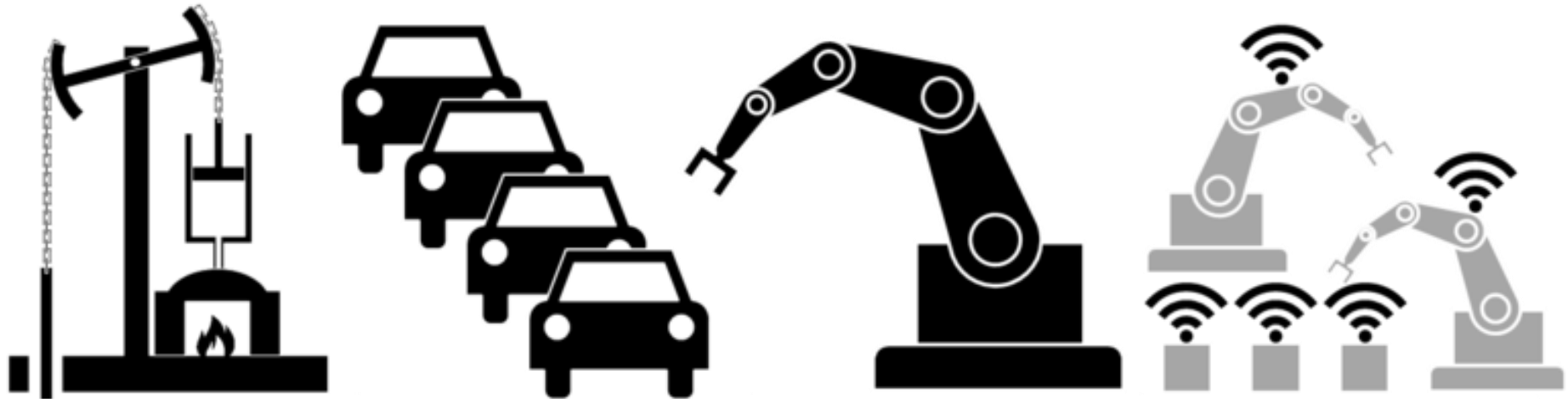
BERG
Amstel







Industrial 4.0 > Print 4.0



1st

2nd

3rd

4th

Mechanization,
water power, steam
power

Mass production,
assembly line,
electricity

Computer and
automation

Cyber Physical
Systems

Print 4.0



- ↴ VDMA Printing and Paper Technology Association

德国机械制造商联合会印刷及纸张技术分会

- ↴ Manufacturer-independent networked Print 4.0 process chains (digital networking)

Print 4.0



- ↴ Cyber-Physical Systems monitor physical processes, create a virtual copy of the physical world and make decentralized decisions
- ↴ will help predict the possibility to increase productivity, quality and flexibility

MORI ICT SOLUTIONS

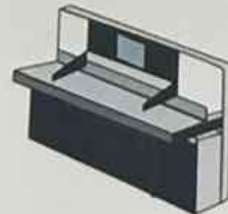
h ICT. Maximize Productivity with a Conn

**Remove the wall between processes
by K-Station 4 Advanced Option**

Prepress



Postpress



Digital-press



H-UV Offset-press



ORIS
ICT. Maximize Productivity with

MIS-centered CIP4/JDF workflow

Fully connecting is difficult



ORI...
CT. Maximize Productivity with a...

Technology exhibit

K-Station 4 centered Process Automation

Advanced Option



ORI ICT
ICT. Maximize Productivity with a...

Demo video

Production results collection



ORI ICT

ICT. Maximize Productivity with a Connected

QCD improvement with ICT Solutions

✓ Quality

Cost

Delivery



Reduce time waste



Reduce material waste



Color management

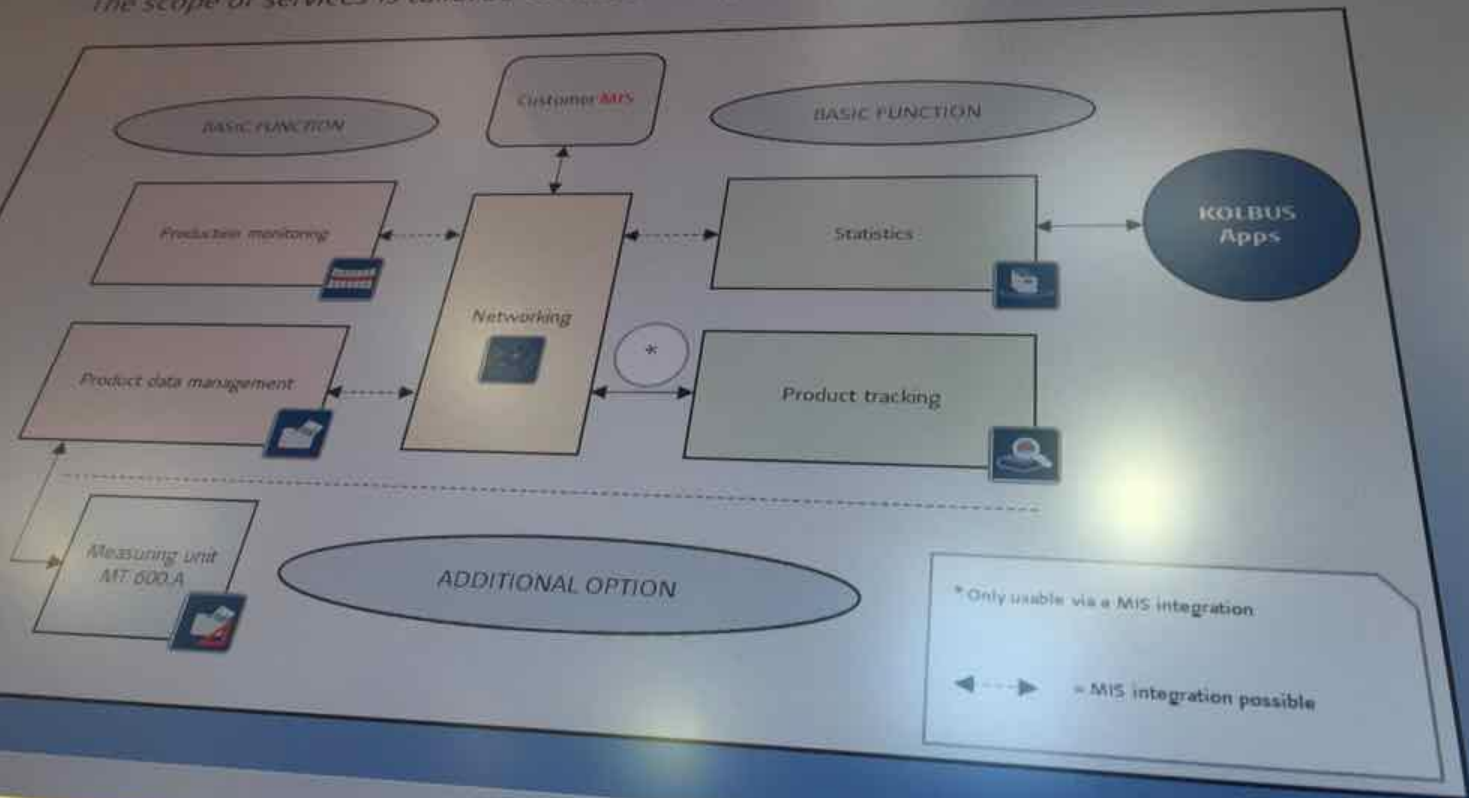


Reduce labor costs

KOLBUS Workflow Design

Connectable software modules for an optimal production support und reliability

The scope of services is tailored to customer-specific production requirements





Digital printing become mainstream?

Thank you!



Technology overview – Green Printing

Albert Yeung
Golden Cup Printing

2016 · 6 · 20

Processless Plate

Kodak : Sonora XP

Fujifilm : Pro-T

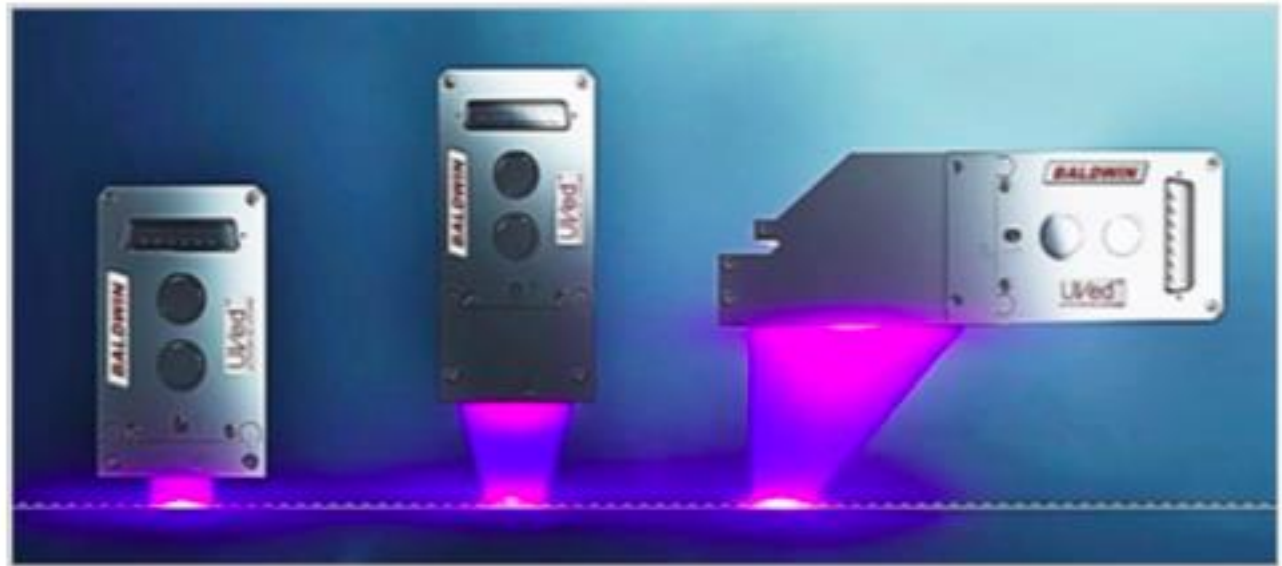
Agfa : Azura TS



Baldwin introduces Broadband LED UV

allows conventional UV chemistries in many applications

drupa



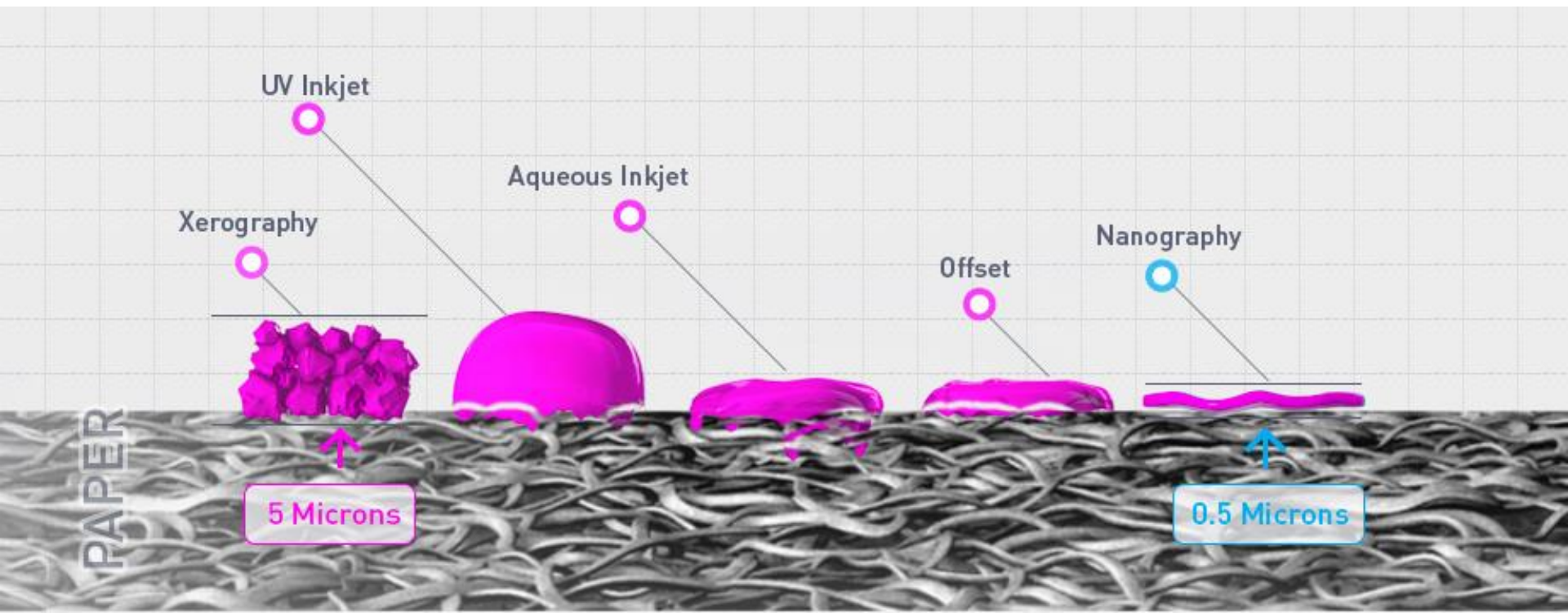
UVed LED Head with interchangeable lenses to optimize the UV output for various applications.

Digital technology



- ↴ no plates
- ↴ reduces makeready time and waste.
- ↴ print only the exact quantities your customers require

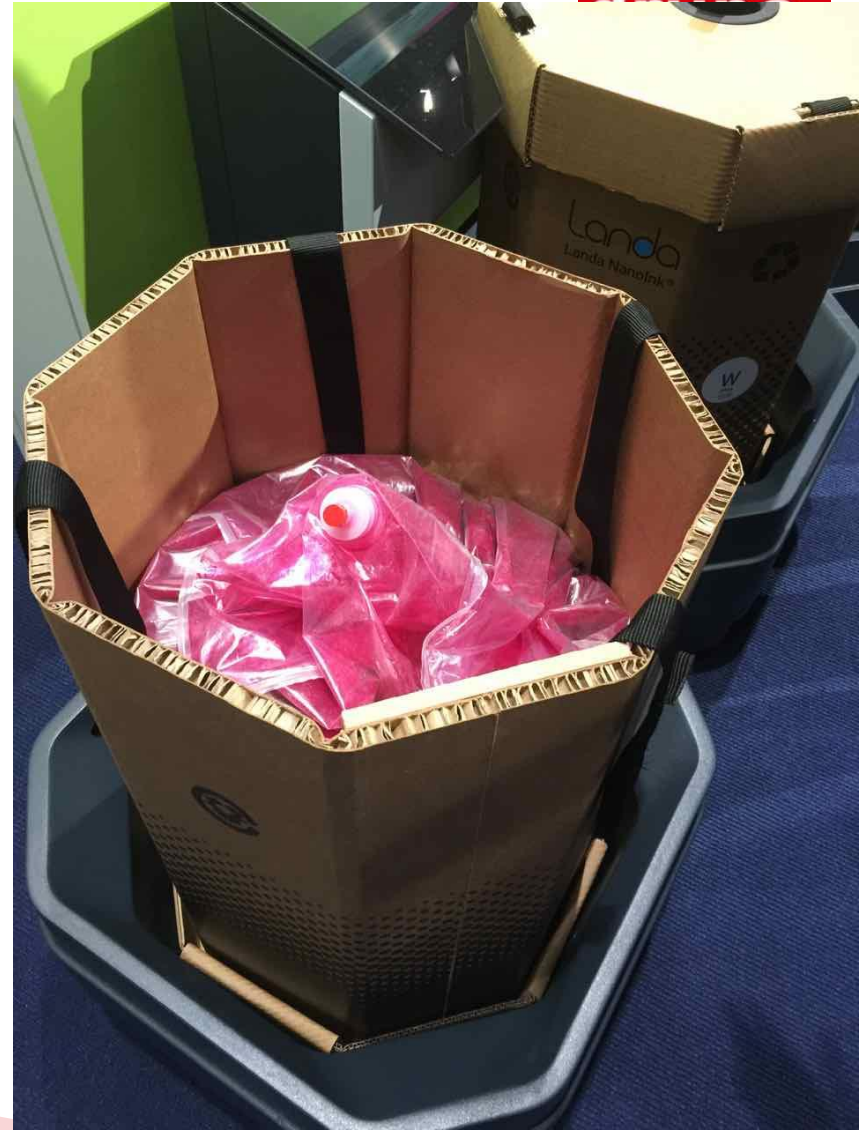
Water-based Landa NanoInk® colorants contain fewer quantities of volatile organic compounds (VOCs) than most conventional printing inks. With pigment particles that are significantly smaller in diameter than other inks, Landa NanoInk delivers more brilliant colors using less pigment. Printed images are a mere 500 nanometers thick, less than half the thickness of offset ink images.



SUSTAINABLE SHIPPING



- ↴ Landa Nanolnk® colorants are supplied as liquid concentrates and need only be mixed with water onsite to prepare it for use. This method of supply avoids the unnecessary shipping of water – saving space and weight, and reducing the impact on our planet. The recyclable ink containers also reduce the cost of waste disposal.



Zero Waste

Good for the Planet
Good for Business

1 kg replaces
3,000 kg of foil



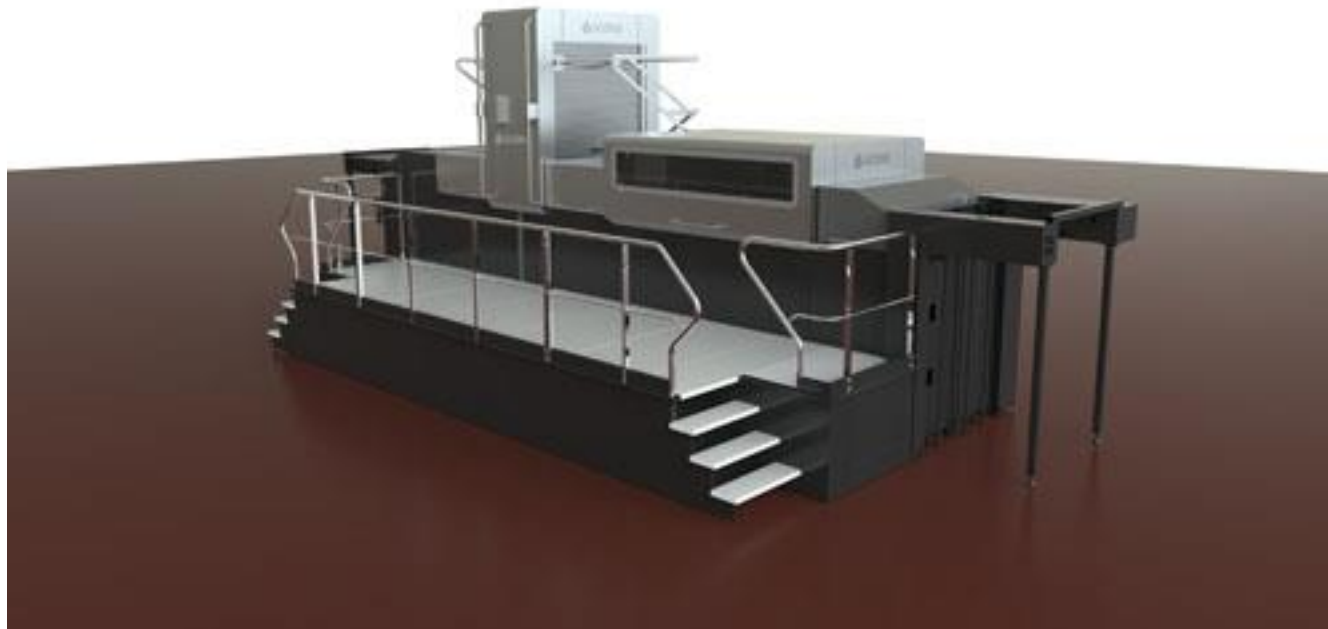
LANDA NANO-METALLOGRAPHY® TECHNOLOGY

Landa NanoFlake™ metal



Digital Secondary Process

Scodix E1 06 – plateless and POD



3d modelling



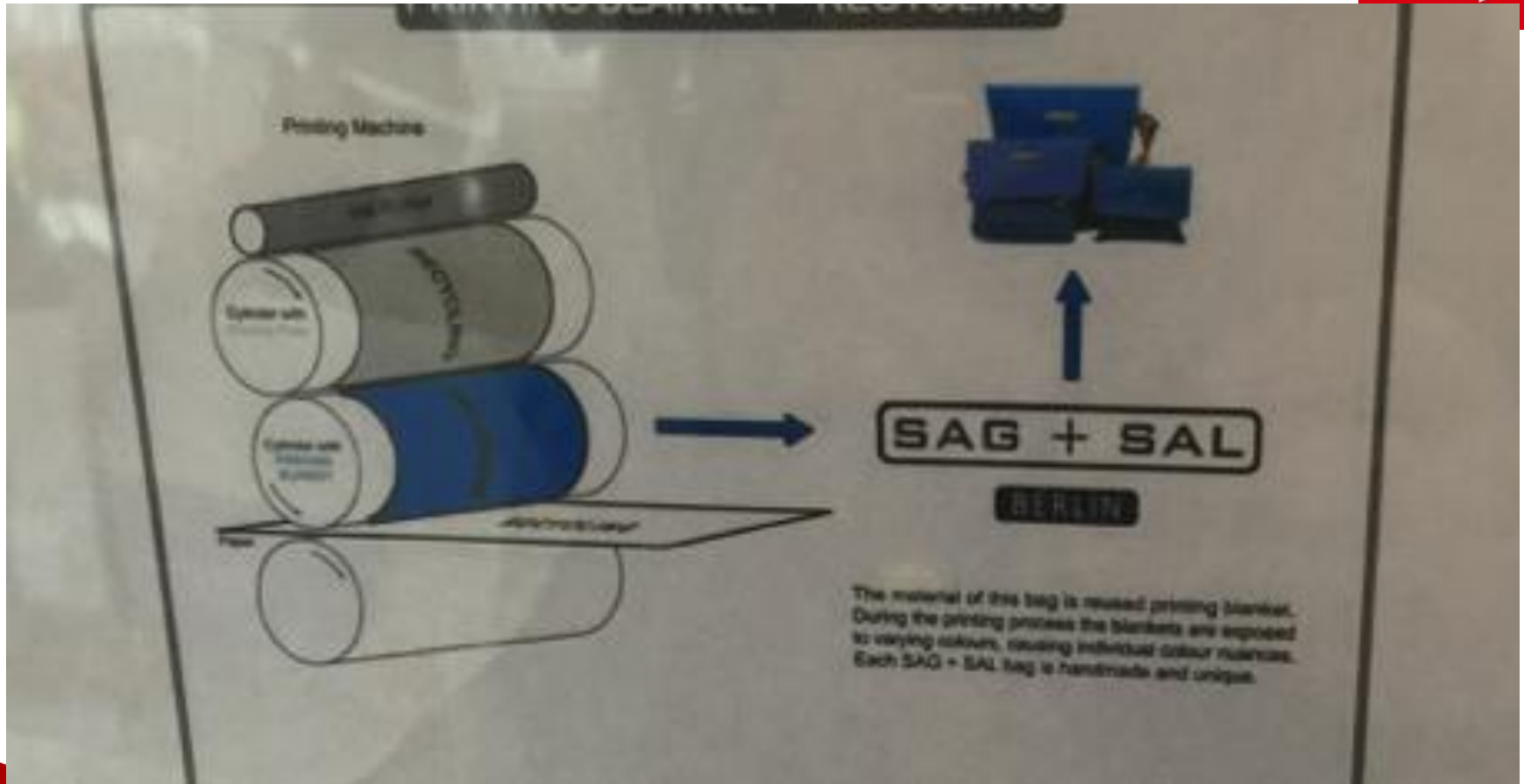
Highcon – Shape







Innovation!



Thank you!

