



UV DAYS 2011

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UV-Inkjetprinting

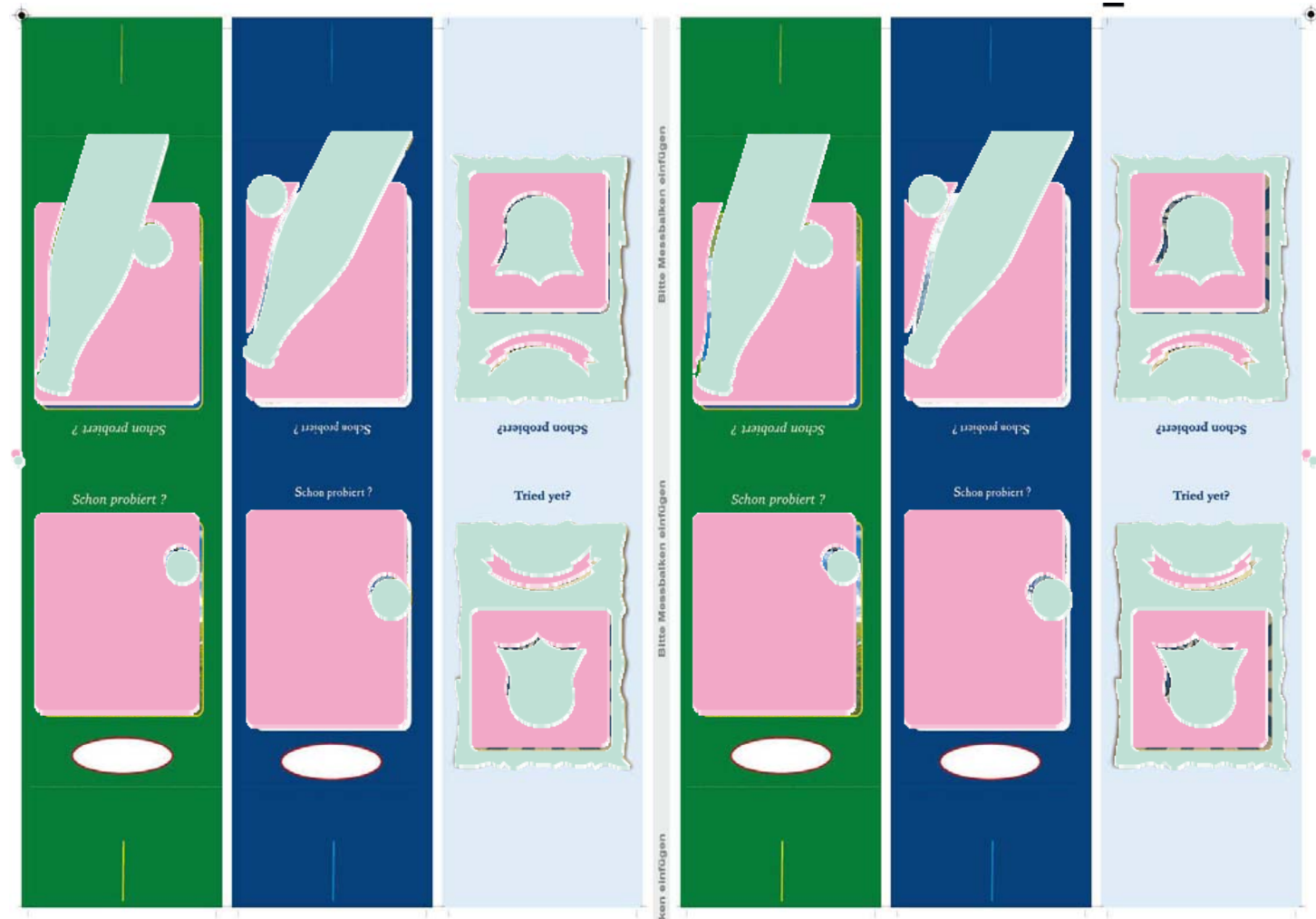
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more than UV

Demojob 1

- Preprinted displays
- paper 250 g/m²
- Gloss coated
- Format 63 x 88 cm
- Inkjet Technology
- UV-varnish

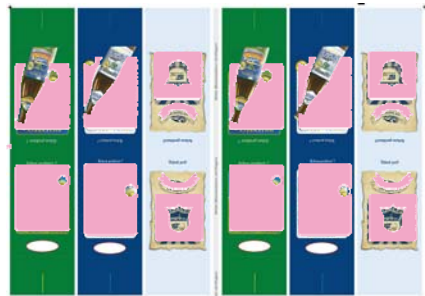
VALUE ADDED PROCESS

- Spot coating to highlight special elements

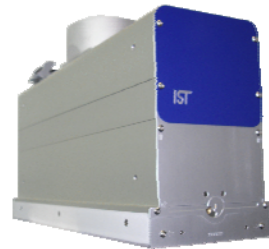


Set-up machine

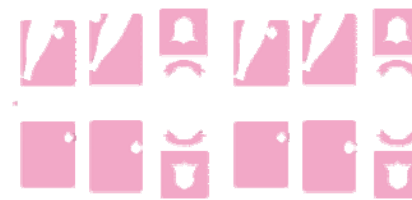
Final product



MBS-5LI UV-dryer

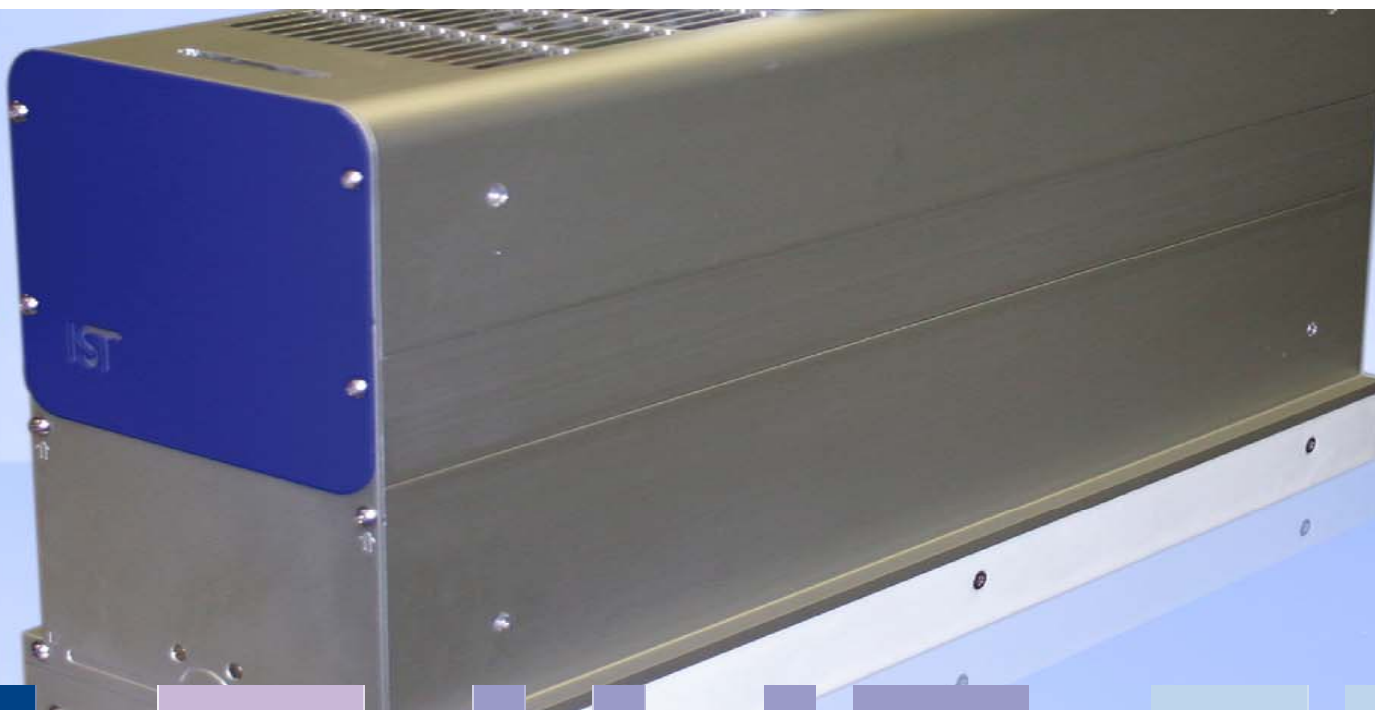


Inkjet varnishing



preprinted sheet





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UV-Systems for inkjet machines

Achim Herzog, Hansjörg Richter, Norbert Peytour

Demands on the UV-System

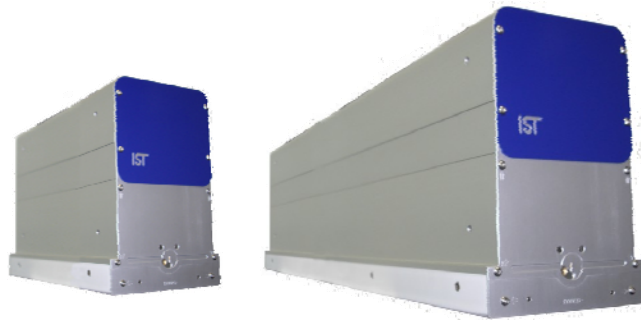
Digital printing systems, especially Inkjet systems have special demands on the UV-curing systems

- Protection for dirt contamination
- High efficiency
- High variability of the UV-system
 - Cover mostly all printing width from 70mm – 500mm
 - Power adaption according to demand and speed
 - Different UV spectra for variable ink systems
- Combination of conventional UV and UV-LED systems
 - UV-LED for pinning of individual colors
 - conventional UV-System for full cure of the final print image
 - UV-LED for full cure of the final print image



High variability

Variable lamp length



150mm

550mm

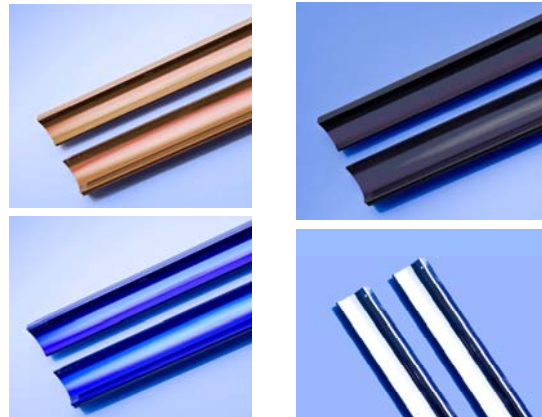
Variable lamp power



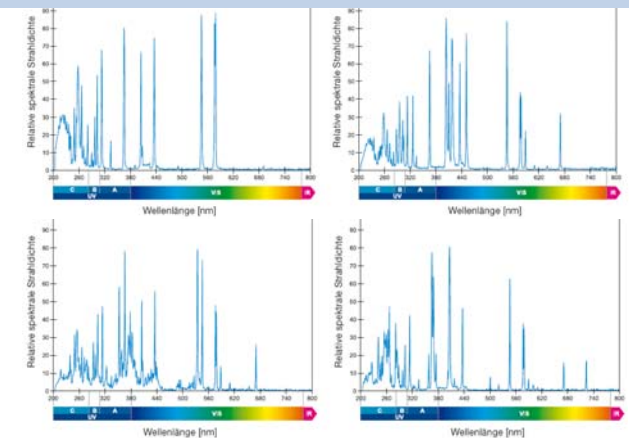
100W/cm

270W/cm

Reflector technology



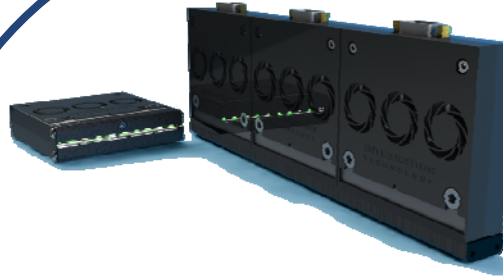
Lamp doping



Combination conv. UV – UV-LED



aircooled



**UV-LED as
Pinning
unit**



**compact
dimensions**

W/cm^2

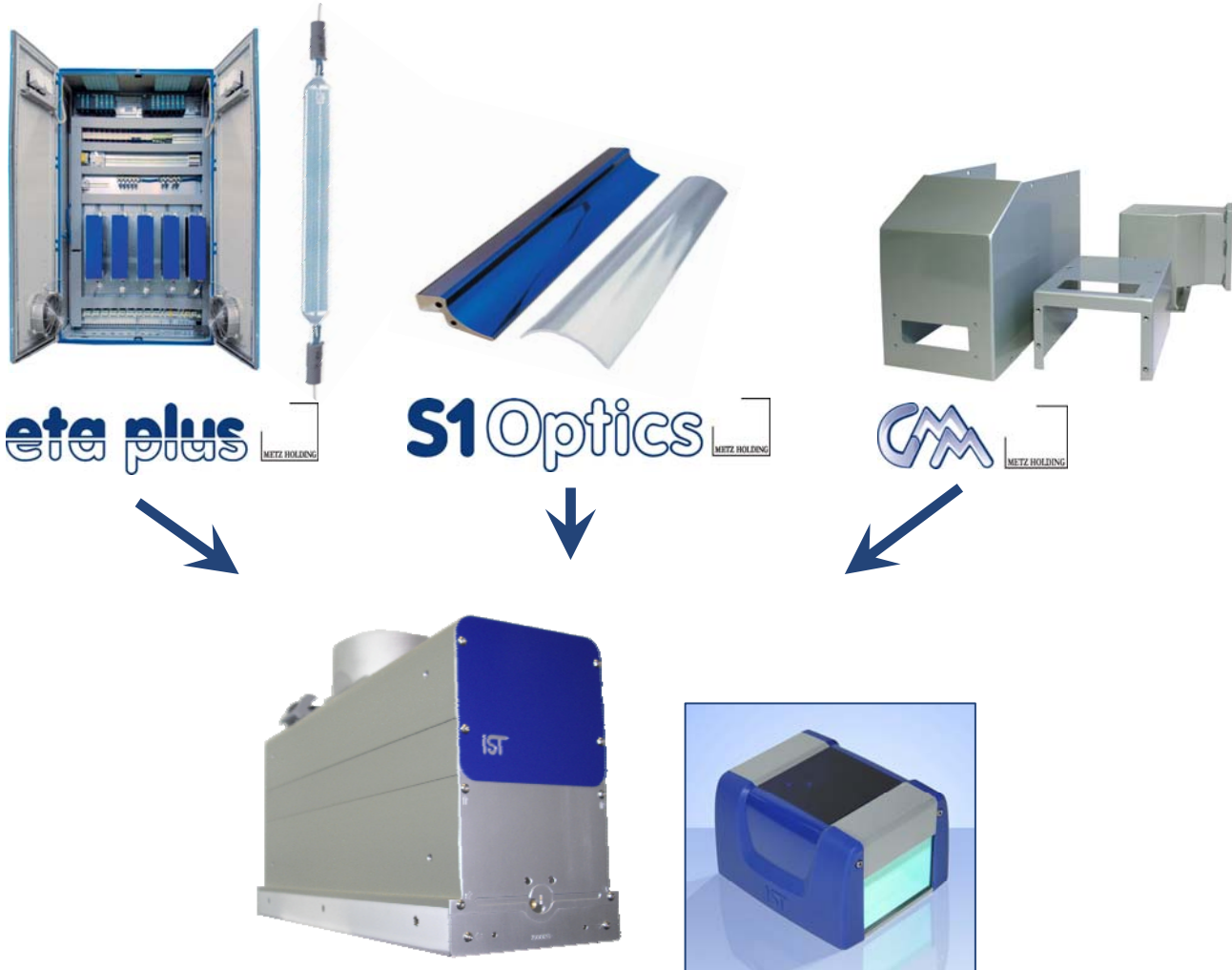
**relatively low
power**

- Stops bleeding of the ink
- Ink will get jellied → no total cure but also no further spread of the ink possible



**no scattering
light at print
head**

UV is our core competence



Strategic
partnership with

INTEGRATION
TECHNOLOGY

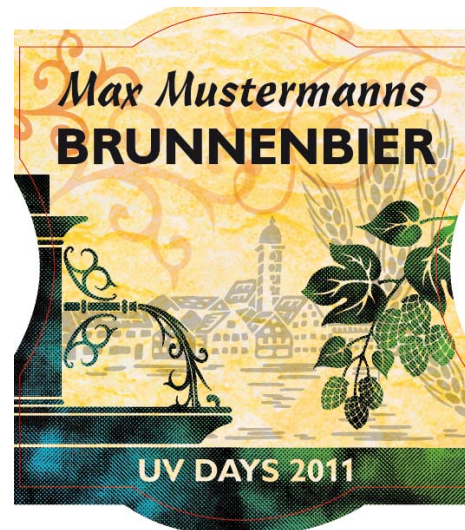


Demojob 2

- 4 process colors
- Self adhesive paper
XXX
- untreated
- Format XXX

Application

- Personalized
labels
- Labels in
short runs

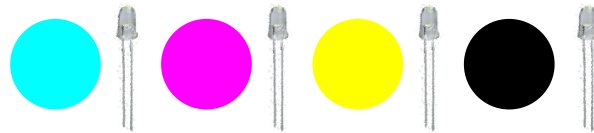


Set-up machine

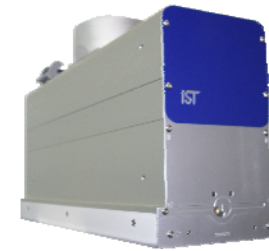
Roll material



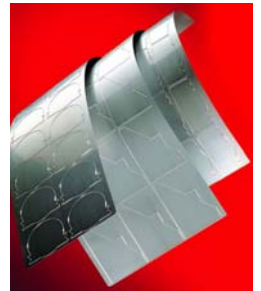
Print station / pinning station



MBS-5LI final cure



Die cut



Final product





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Thank you very much!

... further questions?

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