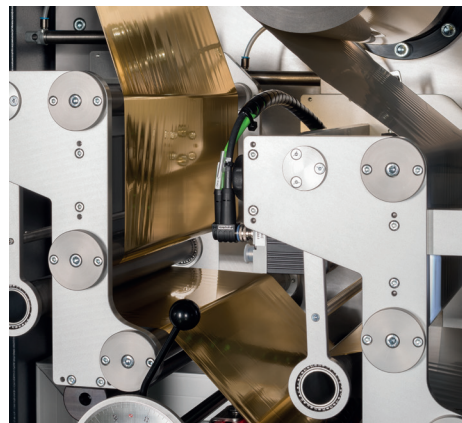


DM-JETLINER®

A glossy look along the entire line



Dancer controlled and featuring a pneumatic clamping device, DM-JETLINER® is capable of keeping up with the high speeds of the printing press.

Whether deployed in mass customization, individualization, small runs, special editions or entire product families – our DM-JETLINER® inline enhancement module lets you refine your packaging and personalize your jobbing work to fit the customer's specifications. There's no need to compromise on flexibility even as you offer attractive decorative options using metal foils. How does it work? DM-JETLINER® can transfer the desired metallization onto paper or a broad range of label materials as part of the digital printing process, while also harnessing the full benefits of our economical digital all-in-one approach. It blends machine, appropriate transfer foil solutions and ink together into efficient and brilliant real metal enhancements. For you, our sophisticated concept, the DM-JETLINER® and customized DIGITAL METAL® foil-based solutions open up new perspectives and interesting new fields of business ready to be fascinated by extreme brilliance, world-class resolutions and uncomplicated overprinting along the entire line.

Real metal effects in digital printing

DIGITAL METAL® gives you the option of creating digitally printed products and packaging with real metal effects. Customized transfer systems for brilliant, high-gloss finishing give your products that special eye-catching gleam at the Point of Sale.

High gloss motifs with sharp edges

Easy-to-process DIGITAL METAL® transfer foil reproduces your motifs at extremely high gloss levels, with world-class resolution and razor-sharp edges. The metallization is transferred onto a digitally printed substrate and can then be overprinted easily using digital or conventional methods.

Design flexibility

Our DIGITAL METAL® complete solution brings you all the benefits of enhancements for your printed products while preserving your entire range of design flexibility. It represents an attractive alternative to metallized papers or cardboard, as DIGITAL METAL® is compatible with everything from partial metallization to full customization.

Digital finishing with real metal – quick overview of features:

- For mass customization and individualization
- Customized metallic finishing for individual labels/packages or various label/package campaigns
- Attractive embellishment for small runs, special editions or different product series
- Variable data brilliantly highlighted
- Impressive high gloss effects
- Huge variety of colors and metallic shades feasible thanks to overprintability
- Almost no limits for creative design
- Last but not least: late stage customization

Flexible finishing and inline metallizing? With our complete solution, we achieve this with high efficiency. From the machine to the transfer foil to the ink, we offer you all components from one single source – perfectly matched to each other. See for yourself – with our printed samples and portfolio of available shades.

KURZ – your one solution partner



The KURZ Group



KURZ worldwide

The KURZ Group is an international leader in thin-film technology and supplies products for surface finishing and decoration. With over 5,500 employees at more than 30 sites worldwide, KURZ has an international presence and manufactures under uniform quality and environmental standards in Europe, Asia and the USA. Thanks to KURZ's many years of experience and the constant expansion of our portfolio, we can offer our customers a wide range of products – and all from one source. A global network of subsidiaries, representatives and sales offices ensures short paths and individual, on-site consulting.

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www.kurz.com.cn

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ISIMAT GmbH
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KURZ Digital Solutions GmbH & Co. KG
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OVD Kinegram AG
www.kinegram.com

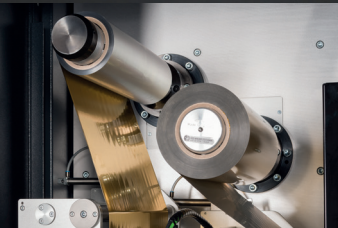
PolyIC GmbH & Co. KG
www.polyic.com

SCHÖFER GmbH
www.schoefer.at

Steinemann DPE AG
www.steinemann-dpe.com



- Machine columns**
- Doors over the entire machine back and front side for easy and fast access
 - Machine columns made of steel
 - Vibration absorbing leveling elements



- Foil unwinding and rewinding**
- Dancer controlled for constant foil tension
 - Dynamic foil transport
 - Able to follow high accelerations of the press
 - Pneumatic clamping device for easy and fast foil change



- Printing unit**
- Compact print engine module
 - Automatic cleaning unit
 - Easily accessible

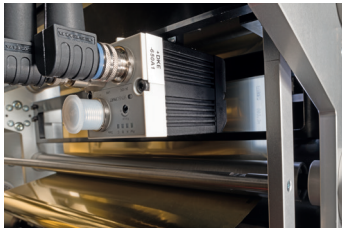


- UV-LED pinning unit**
- Controls the spread of the ink droplets
 - Adjustable over machine interface
 - Supports sharp designs

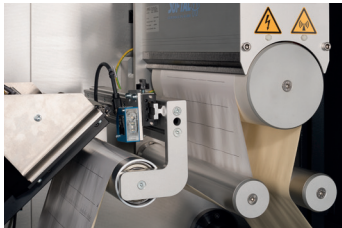
Specifications

Module length/width/height:	approx. 1,790 x 2,040 x 2,345 mm
Application width:	max. 324 mm
Application speed:	max. 75 m/min (max. feasible speed depending on substrate)
Ink type:	UV curable UV-Ink
UV-LED pinning unit:	approx. 3 watt/cm², adjustable over machine control, air-cooled
UV-LED curing station:	20 watt/cm², water cooled UV-curing station
Print head resolution:	600 x 600 dpi
Droplet sizes:	3/7/11/14 pl
Control system:	PC, PLC, touchscreen
Electrical requirements:	3 x 400 V AC, 50 Hz, L1/L2/L3/N/PE, 16 A pre-fuse
Compressed air:	max. 6.5 bar (oil-free) (hose diameter Ø 10 mm)
Register accuracy:	± 0.20 mm (lengthwise and crosswise)
Foil width:	max. 340 mm
Print media width:	150 – 350 mm
Outside foil diameter:	Ø max. 300 mm foil length approx. 2,100 m (RPL)
Supported substrates:	clear and opaque self-adhesive labels, PP, PE and PET, coated paper
File formats:	PDF, TIFF, BMP, EPS
Weight:	approx. 2,600 kg

All technical data are to be interpreted to be only approximate.



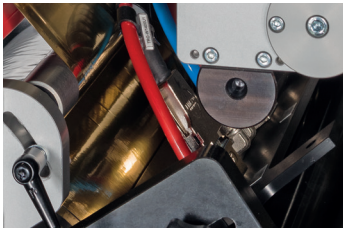
- KURZ Pay-per-Stamp**
- Integrated billing system
 - Convenient, once-per-month invoicing model
 - Automatic consumables reorder upon reaching minimum quantity



- Corona pretreatment**
- Change of surface tension
 - Improve adhesion and wetting
 - Automatically stepless power control



- Connection unit (option)**
- Mechanical connection between DM-JETLINER® unit and digital press with web guidance
 - Integrated service door



- UV-LED curing station**
- Water cooled UV-LED curing station
 - Emission width: 342 mm
 - Performance: 20 watt/cm²

DM-JETLINER®:

DM-JETLINER® lets you transfer metallization effects onto paper and label materials during digital printing. The transfer process can be integrated seamlessly inline into your digital printing machine — upstream from the digital color printing. Once the metallization is applied with a UV-curing adhesive to the unprinted substrate, the PET carrier is removed, and the substrate can be overprinted within the printing machine.

- Can be integrated into production chain
- Also available stand-alone for maximum flexibility
- Follows production speed of the digital printing press
- Transfer foil, adhesive and enhancement module from one source
- Speed to market
- Late stage customization
- Custom-made hologram designs available (for tickets, etc.)
- Metallization is overprintable (imitate/replace offset coldfoil)
- Consignment stock of consumables/pay per stamp model
- Automatic consumables reordering



DM-JETLINER®

Gin label

- Fine graphic artwork, with different locations
- 4c + DIGITAL METAL®



Smoothie label

- Personalization with overprint
- 4c + DIGITAL METAL®



Digital metallization:
DM-JETLINER®
Foil: DIGITAL DIFFRACTION® Crosslight
Substrate: MC80, 80g/m²



KURZ

This is an HP Indigo digital print.
Printed on an HP Indigo 6800 Digital Press.
Enhanced with KURZ DM-JETLINER® and
DIGITAL METAL® foil.

Shower gel label

- Personalized with overprint of DIGITAL METAL®
- 4c + white + DIGITAL METAL®



Digital metallization:
DM-JETLINER®
Foil: DIGITAL METAL® Silver
Substrate: Dig Indi PP Top Clear




KURZ

This is an HP indigo digital print.
Printed on an HP Indigo 6800 Digital Press.
Enhanced with KURZ DM-JETLINER® and
DIGITAL METAL® foil.

DM-JETLINER®

Overprinted DIGITAL METAL®



This color overview illustrates the large variety of color effects that you can achieve by overprinting DIGITAL METAL®. The color values in the table serve as a guide only as printing results can vary depending on the inks used.

Overprinted color mixture	Color application 20 %	Color application 40 %	Color application 60 %	Color application 80 %	Color application 100 %
100 % cyan					
100 % cyan 50 % magenta					
100 % cyan 100 % magenta					
50 % cyan 50 % magenta					
100 % magenta					
100 % magenta 50 % yellow					
100 % magenta 100 % yellow					
50 % magenta 100 % yellow					
100 % yellow					
100 % yellow 50 % cyan					
50 % yellow 100 % cyan					
100 % yellow 100 % cyan					
60 % cyan 80 % magenta 100 % yellow					
100 % black					
15 % cyan 20 % magenta 100 % yellow					

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