



Flexible and flat digital metallization in narrow web printing

**With DM-UNILINER 2D, the stand-alone solution
for pre- or post-printing embellishment**



DM-UNILINER 2D:

The stand-alone decoration unit for flat metallization is ready to use whenever and wherever you need it in your printing process.

- ▶ Customized metallic finishing for individual labels or various label campaigns
- ▶ For mass customization and individualization
- ▶ 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
- ▶ Late-stage customization



Roll-to-roll
printing process



Flat finishing
result

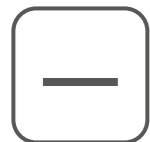


High gloss
level

The KURZ DM-UNILINER 2D is renowned for its universal application in the narrow web sector and unleashes its full potential in your processes if you want to finish your labels and sleeves in a highly automated and flexible manner – whenever your job requires it.

The tried and tested, mature 3rd generation of the digital decoration unit is equipped with inkjet technology and, in combination with different printing systems, can upgrade a print product with finishing. In addition, the efficiency and cost-effectiveness of finishing with the DM-UNILINER 2D does not depend on the size of the order. Attractive decorations for smaller product series, special editions, or even for creating samples can also be implemented. At any time.

Efficient brilliance flexibly achieved for any job size



Flat finishing
result

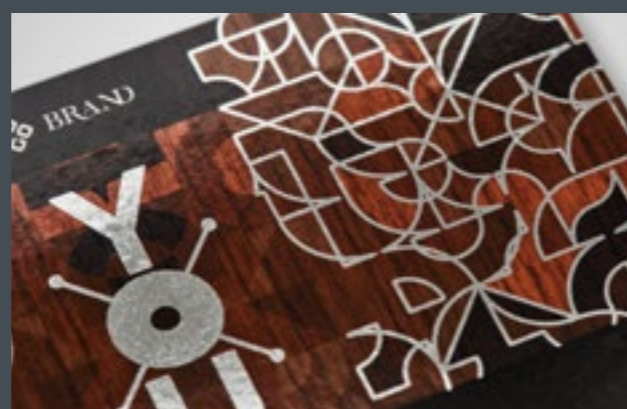


High gloss
level

Real metal, high gloss, maximum design freedom from roll-to-roll

DM-UNILINER 2D offers metallization before or after the printing process. The DIGITAL METAL® transfer products used are optimally matched to the DIGITAL finishing unit, offer enormous creative freedom, and are easy to process. This results in a multitude of brilliant color and light effects as well as metallized motifs with an extremely high degree of gloss, first-class resolution, and sharp edges.

These properties make our universally applicable finishing solution an attractive and economical alternative to metallized papers or cardboard, as it gives you full design flexibility – from partial metallization to the complete customization of your labels.





Easy processing,
full control, and
maximum
flexibility for
narrow web



Digital Transfer with inkjet on transfer product

Thanks to the unique 'inkjet on transfer layer' technology of the DM-UNILINER 2D, the surface to be printed remains unchanged, despite the large number of possible substrates. This makes it easy to achieve highly variable finishing. For you, this means full control of the processes with less effort since no in-depth inkjet printing knowledge is required to finish with consistently high quality.

Depending on the substrate, the DM-UNILINER 2D processes up to 75 roll meters per minute. Roll diameters of up to 800 mm

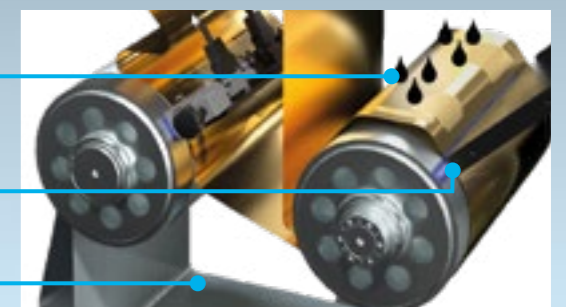
enable long running times without any reel changes. The desired designs can be metallized before or after the printing process.

The KURZ multi-use function is also available for metallizations before printing in DM-UNILINER 2D. Depending on the design, up to three transfer runs are possible – for maximum use of the metallization layer and increased sustainability of your product.

Easy job set-up – by printing on the backside of the foil the print surface stays always the same no matter the substrate

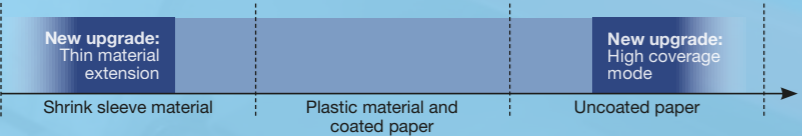
Better process control – by pinning the ink to the transfer layer, there is no risk of the ink being absorbed by the paper

Repeatable with highest quality



Wide range of substrates

The unique 'inkjet on transfer layer' technology enables the finishing of a wide range of substrates. From shrink sleeve products to labels made from uncoated papers, a wide range of applications can be catered to. Whatever you plan for your business in the future – with our unique technology, you are already set up for tomorrow today.



Excellent register accuracy



Advanced sensor technology (with front and rear sensors and a white support roller to assist in processing transparent material) ensures precise metallization of your designs with optimal register accuracy.

Automatic job change over at full run

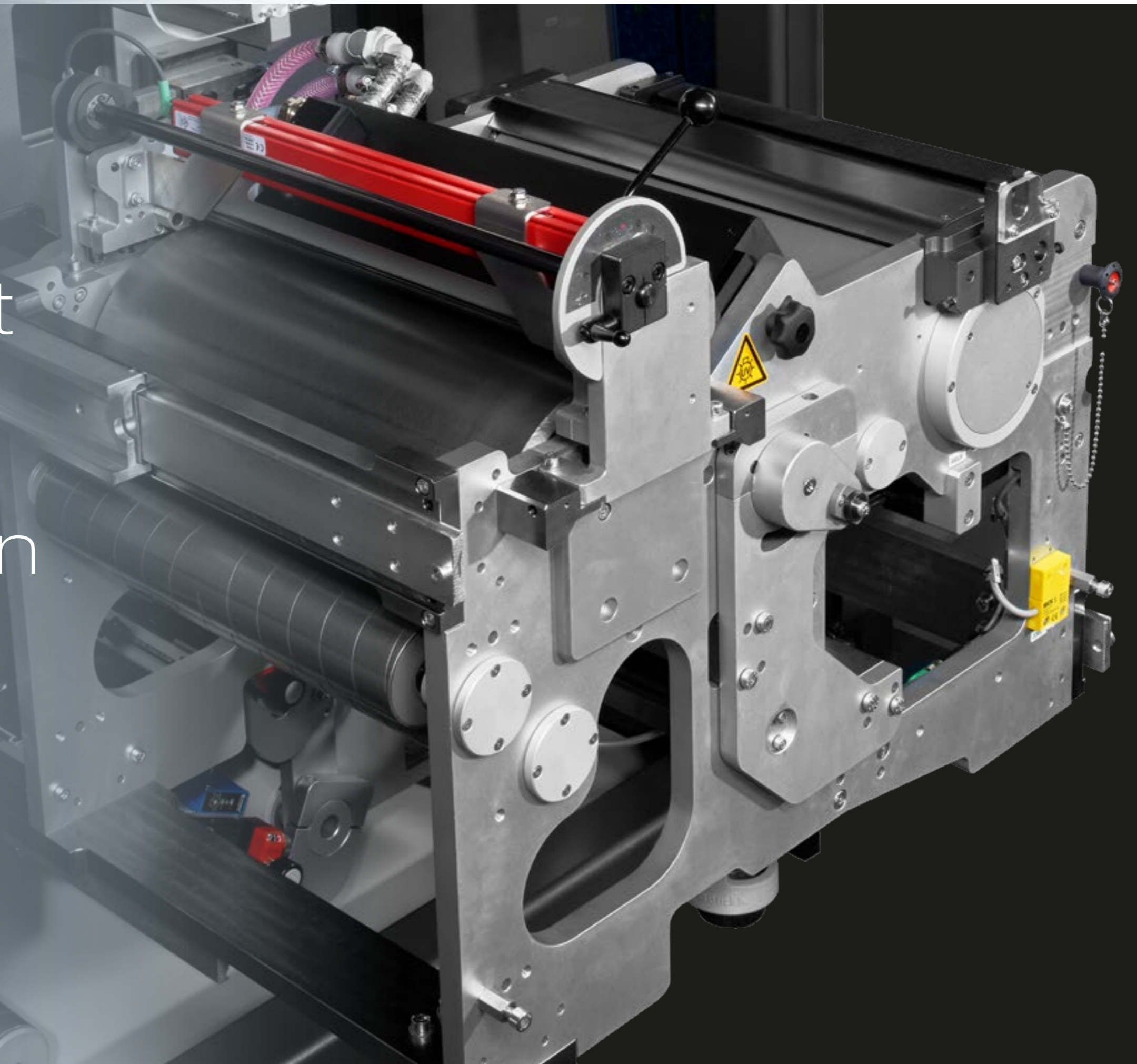
DM-UNILINER 2D is designed for your digital workflow. The digital printing unit works regardless of the job size with minimal operator effort. Several orders run on one roll. Every new job is detected automatically, and the job change is performed automatically during full operation.

Universal pre- and post-print embellishment

DM-UNILINER 2D adds value to your printing operation. The flexible digital printing unit enables metallization in pre-print or post-print processing. This allows you to offer your customers even more design variety in the label segment – as an expansion of your product portfolio or as an additional service, e.g., for the economic creation of extraordinary design samples.

Convenient access to the entire metallization unit

For time-saving service and effective maintenance, the unit is accessible through large doors on the entire front and back. In addition, the complete application unit can be pulled out of the machine housing and is fully accessible.



DM-UNILINER 2D – Details

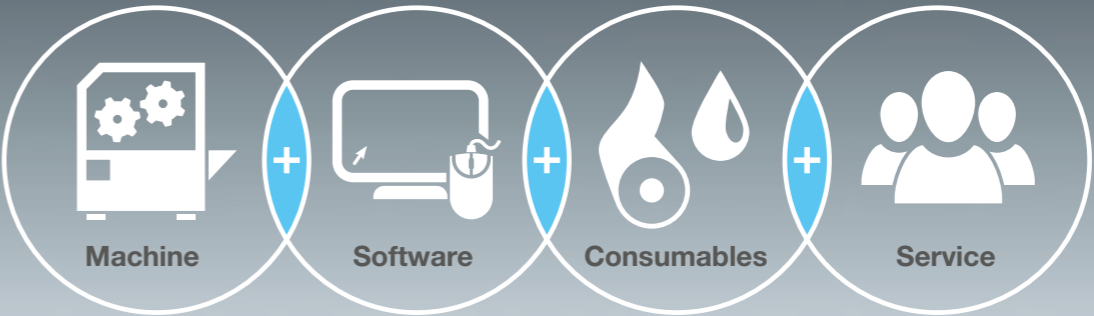
Only pay for what you use

With DM-UNILINER 2D, you benefit from the advantages of a market-tested complete solution with optimally coordinated components. The stand-alone unit's web-based software provides an overview of your consumption and inventory of your DIGITAL METAL® transfer decorations. However, according to the 'pay-per-stamp' principle, you only pay for what you process. We will only charge you for the transfer products that are actually used.

KURZ – your one-stop solution partner

Flexible and convenient finishing? With our complete solution, we achieve this with high efficiency. From the machine to the transfer metallization 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.



DM-UNILINER 2D – Specifications

General information

Length/width/height:	4,200 x 1,780 x 2,056 mm
Control system:	PC, PLC, touchscreen
Weight:	3,400 kg

Connection values

Electrical requirements:	Application unit: 3 x 400 V AC, 50 Hz, L1/L2/L3/N/PE, 16 A pre-fuse Substrate handling system: 3 x 400 V AC, 50 Hz, L1/L2/L3/N/PE, 32 A pre-fuse
Compressed air:	Max. 6.5 bar (oil-free)

Application unit

Application width:	Max. 324 mm
Application speed:	Max. 75 m/min (max. feasible speed depending on substrate)
Ink type:	LED UV curable ink
UV-LED pinning unit:	Approx. 3 watt/cm², adjustable by machine control, air-cooled
UV-LED final curing:	Approx. 28 watt/cm², adjustable by machine control, air-cooled
Print head resolution:	600 x 600 dpi
Droplet sizes:	3/7/11/14 pl (application amount from 1.7 to 12.6 g/m² available)
Register accuracy (in-setting on preprint):	± 0.20 mm (lengthwise and crosswise)
Outside foil diameter:	Ø max. 300 mm (11.8") foil length approx. 2,100 m (6,890 ft)
Supported substrates:	Self-adhesive labels, PP, PE and PET, coated and uncoated paper, shrink sleeves
File formats:	PDF, TIFF, BMP, EPS

Substrate handling system

Substrate width:	150 – 350 mm
Outside diameter:	Max. 800 mm
Roll weight:	Max. 280 kg
Core diameter:	3" or 6"

All technical data are approximate.

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.

Germany
LEONHARD KURZ Stiftung & Co. KG
Schwabacher Straße 482
90763 Fuerth/Germany
Phone: +49 911 71 41-0
E-Mail: sales@kurz.de
www.kurz-world.com

USA
Huntersville/Los Angeles/Chicago/
Lexington/New York
KURZ TRANSFER PRODUCTS, L.P. (KTP)
www.kurzusa.com

China
Hefei/Beijing/Chongqing/Kunming/
Shanghai/Shenzhen
KURZ STAMPING TECHNOLOGY
(HEFEI) Co., Ltd.
www.kurz.com.cn

Sales subsidiaries with logistic centers

Australia
Sydney/Adelaide/Melbourne
LEONHARD KURZ (Aust.) PTY. LTD.
www.kurz.com.au

Brazil/São Paulo
KURZ do BRASIL
www.kurz.com.br

Canada/Toronto
KURZ TRANSFER PRODUCTS, L.P.
www.kurzusa.com

Chile/Santiago
FSK S.A.
www.foilsk.com

Czech Republic/Střelice u Brna
KURZ Czech & Slovak s.r.o.
www.czkurz.com

France/Paris
KURZ FRANCE S.A.R.L.
www.kurz.fr

Germany/Doebeln
KURZ TYPOFOL GmbH
www.kurz-typofol.de

Great Britain/Watford
LEONHARD KURZ (UK) LTD.
www.kurz.co.uk

Hong Kong
KURZ Hong Kong Ltd.
www.kurz.com.cn

Hungary/Budapest
LEONHARD KURZ South-East Europe Kft.
www.kurz.hu

India
New Delhi/Chennai/Calcutta/Mumbai
KURZ (INDIA) PVT. LTD.
www.kurz.in

Ireland/Dublin
LEONHARD KURZ IRELAND LTD.
www.kurz.ie

Japan
Osaka/Tokyo
KURZ JAPAN LTD.
www.kurzjapan.com

Mexico
Mexico City/Guadalajara
KURZ MÉXICO S.de R.L.de C.V.
www.kurz.com.mx

Morocco/Casablanca
KURZ North Africa
www.kurz-na.com

Netherlands/Nijmegen
LEONHARD KURZ BENELUX B.V.
www.kurz.nl

New Zealand/Penrose
KURZ NEW ZEALAND
www.kurz.com.au

Switzerland/Wallisellen
KURZ PRÄGEFOLIEN AG
www.kurzag.ch

Taiwan/Taipei
KURZ CHEERS, Inc.
www.kurz.com.tw

Thailand/Bangkok
KURZ (Thailand) Ltd.
www.kurz.co.th

Tunisia/Tunis
KURZ North Africa
www.kurz-na.com

Fields of expertise

KURZ is always investing in new technologies. KURZ subsidiaries develop innovative solutions for functional integrations into surfaces as well as products for labeling and counterfeit protection, along with the corresponding software. A comprehensive range of stamping presses and stamping tools rounds off the versatile KURZ product portfolio. Furthermore, KURZ subsidiaries use their expertise to provide future-oriented, custom-made complete solutions including project consultancy and machine and tool technology.

Baier GmbH + Co KG Maschinenfabrik
www.baier-praegetechnik.de

BURG DESIGN GmbH
www.burg-design.com

Hinderer + Mühlich GmbH & Co. KG
www.hinderer-muehlich.de

ISIMAT GmbH
www.isimat.de

KURZ Digital Solutions GmbH & Co. KG
www.kurzdigital.com

mprint gmbh & co. kg
www.mprint.de

OVD Kinegram AG
www.kinegram.com

PolyIC GmbH & Co. KG
www.polyic.com

SCHÖFER GmbH
www.schoefer.at

SCRIBOS GmbH
www.scribos.de

Steinemann DPE AG
www.steinemann-dpe.com

Follow us on:



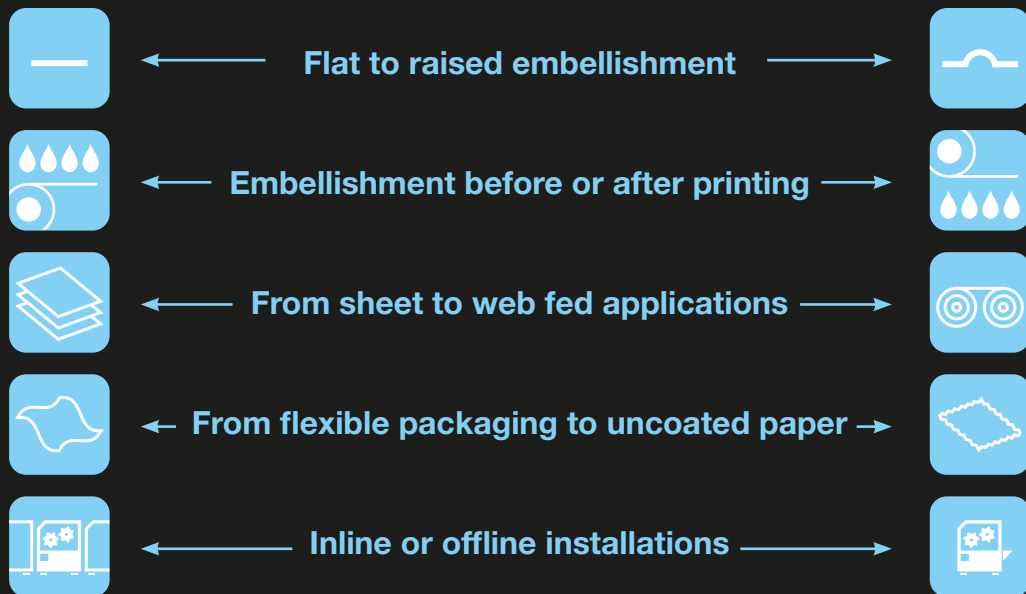
Construction is subject to change without notice. The information provided herein is given with utmost care and according to our best knowledge and experience as of the date of this document, but NO REPRESENTATION, GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED IS MADE AS TO THE ACCURACY, RELIABILITY OR COMPLETENESS OF THE INFORMATION OR TO ANY SPECIAL QUALITY OR FITNESS OF THE MACHINE FOR A SPECIAL APPLICATION. This information does not release the customer from his own liability for care examination, in particular with regard to the incoming goods inspection and any fitness of the respective machine for his intended use. Execution of machine due to CE standards.
This document (10/2021) supersedes all previous issues.

Digital embellishment solutions



Digital embellishment at its peak

Standing out from the crowd, differentiating yourself from others, creating individuality – the demands on product designs are constantly increasing. Short-lived trends, competition and individual customer wishes require quick adaptability and high quality standards. Open up new markets and create high-caliber metallic decoration options with our DIGITAL METAL® solutions that expand your range and open up new perspectives.



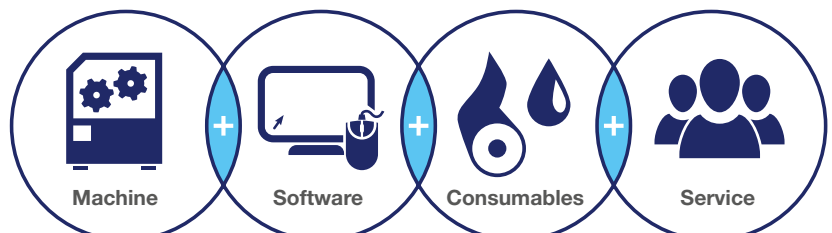
Sustainability for a responsible future

We stand for top quality in the sense of sustainability. The careful use of resources is just as important to us as the core idea of lifecycle thinking. Material and resource efficiency along the production range, optimization of our finishing machines, consistent waste minimization and recycling, reduced energy and ink consumption not only stand for economical, but also for ecological efficiency. We support you in optimizing your ecological footprint.



KURZ – your one stop solution partner

Flexible and convenient finishing? With our complete solution, we achieve this with high efficiency. From the machine to the transfer metallization to the ink, we offer you all components from one single source – perfectly matched to each other.

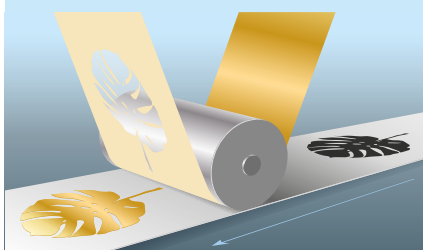


Digital metallization technologies

Whether classic production or mass customization, short runs or special editions – with our solutions you remain flexible and highly efficient. Experience fascinating metallic effects and high-gloss surfaces, first-class resolution, many colors and deep brilliance. We also offer you a one stop solution: Transfer product, machine, software and service – tailored to your individual needs, convenient, all from one single source.

Transfer on toner / electro-ink

Design to be metallized already pre printed

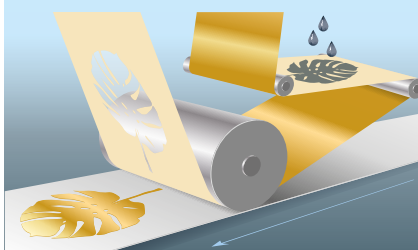


Clear handling, intelligent functions and top quality: That's what our transfer on toner solutions stand for. The desired metallization is simply transferred to paper or cardboard using the digital printing process. The metallization is transferred before digital color printing and can be overprinted easily.

- ✓ No additional digital print equipment needed
- ✓ Large process window allows easy use with high quality

Inkjet on transfer layer

Adhesive is applied to transfer layer

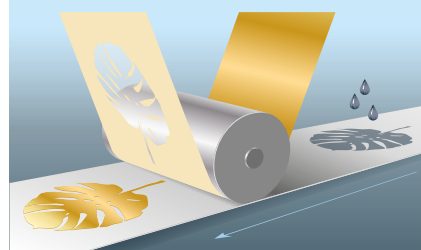


The heart of our inkjet on transfer layer technology is the innovative inkjet technology combined with the KURZ DIGITAL METAL® finishing solution. Experience digital metallization and create optimal finishing results with high-gloss, flat metallic effects and deep color brilliance.

- ✓ Be ready for many applications from flexible packaging to uncoated papers
- ✓ Easy to use – no matter the substrate – by printing on the transfer layer the printing surface always stays the same

Inkjet on substrate

Adhesive is applied directly on substrate



Experience maximum design freedom and create glossy spot coatings, relief coatings with haptic effects, raised structures and brilliant metallizations in only one single pass. Realize your design ideas for small to medium product series and exclusive special editions.

- ✓ Offer new effects with raised metallization
- ✓ Combine various thicknesses to allow more design freedom
- ✓ Add UV spot varnish all in one single pass

Flat metallization (always overprintable)

Raised metallization (overprintable in defined conditions)

Web fed		DM-UNILINER 2D	DM-JETLINER	DM-UNILINER 3D
				
Sheet fed	DM-SMARTLINER			DM-MAXLINER 3D
				