



LEONHARD KURZ is a world-leading thin-film technology specialist with more than 5,500 employees at more than 30 locations worldwide. KURZ develops and produces decorative and functional layers, including for the printing, packaging, and the plastics industry, for banknotes and ID documents, as well as for the automotive, electronics and medical technology sectors. The company's comprehensive product portfolio ranges from decorative and smart interactive surface finishes, to design consulting and security concepts for product and brand protection. Together with its subsidiaries, KURZ offers solutions for digital embellishment, cold transfer, hot stamping, related printing and embossing machines, and embossing tools. KURZ is also developing its own recycling programs, is a UN Global Compact participant, and has been repeatedly recognized by EcoVadis for its sustainability activities.

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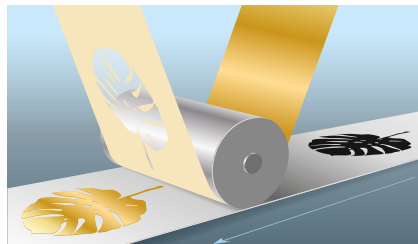
Digital Embellishment Technologies

KURZ Digital Embellishment Solutions revolutionize the printing industry by developing machines that add intricate enhancement to print products. KURZ offers three primary technologies that allow for the industrial production of high-precision, on-demand digital embellishment without the need for traditional plates or dies. Variable data capabilities and the instant order change feature provide unparalleled flexibility and possibility for customization. At KURZ, we are subject matter experts in 2D and 3D digital embellishment technologies providing exceptional production speed, productivity, and efficiency.



Flat digital metallization

Transfer on toner / electro-ink



Flat digital metallization for sheet-fed involves transferring a toner-preprinted image onto paper or cardboard using a digital heat transfer process. The metallization is applied via transfer on toner before digital color printing, allowing for easy overprinting. This technology produces precise and vibrant metallic effects on printed materials.



Flat digital metallization for a wide range of substrates

Inkjet on transfer layer

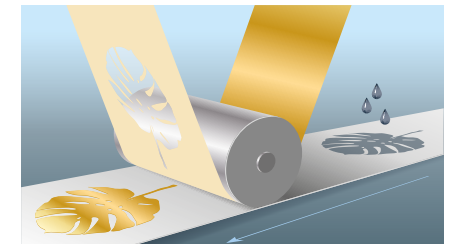


Thanks to patented inkjet on transfer layer technology, this technique stands for consistently high embellishment results on a uniquely wide range of substrates. Printing adhesive on the reverse of the transfer material creates consistently optimal conditions for the embellishment process. Produce brilliant large surfaces and filigree structures on almost every substrate.



Raised & flat digital metallization

Inkjet on substrate



UV spot varnish and metallization are applied digitally through directly inkjet printing UV varnish and adhesive onto the substrate. This process creates intricate tactile and raised structures as well as brilliant metallization – sharp lines and glossy large surfaces, all accomplished in a single pass.

Digital Embellishment Solutions



Flat digital metallization

Sheet-fed solutions

The **DM-SMARTLINER** delivers high-resolution and overprintable 2D metallic effects in perfect register for sheet-fed applications such as packaging, book covers and web2print. The compact unit offers a range of embellishments, including security options like holograms. Its transfer on toner technology ensures ease of use, with a simple three-step process: Toner print, metallize, and optionally overprint. Durable and suitable for food packaging, the machine requires no complex training.

Integration solutions

The **DM-SMARTLINER 350** produces high-quality digital metallization inline with a toner printing press for web-fed applications. Together with Xeikon and its TITON technology, KURZ is offering advanced solutions for full-color printing and digital metallization in one pass.



Flat digital metallization for a wide range of substrates

Web-fed solutions

The **DM-UNILINER 2D** allows universal pre- and post-print embellishments on a wide range of substrates from unsupported film like shrink sleeve labels to uncoated papers. Its flexibility and reliability meet industrial demands, ensuring profitability even for short runs.

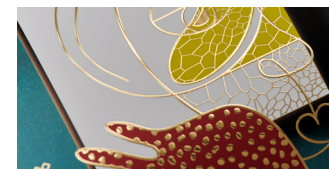
The **DM-JETLINER 2D** seamlessly integrates into digital printing machines, allowing the transfer process to occur inline, upstream from digital color printing.

Sheet-fed solutions

The innovative **DM-MAXLINER 2D** enables high-quality digital metallization on a wide range of substrates, especially open-structured uncoated papers, in a single pass. KURZ's patented inkjet on transfer technology ensures precision and repeatability, merging a fully digital workflow with the ability to process multiple substrates at industry-leading production speeds.

Integration solutions

Ideal for individual labels, special editions, or series production, the flexible **DM-FLEXLINER 2D** ensures distinctive metallization for small details or large areas, before or after the printing process, or during further processing. It is integrable and compatible with existing conventional or digital printing presses, converting, and finishing machines.



Raised & flat digital metallization

Web-fed solutions

The highly efficient and adjustable **DM-UNILINER 3D** provides pre- and post-printing embellishment, especially for labels, with an industrial, expandable configuration. It offers UV spot and relief varnishing, and digital metallization in one pass using inkjet on substrate technology – ideal for small to medium-sized product series and special editions.

Sheet-fed solutions

With industry-leading speed of up to 5,100 sheets/hour, the **DM-MAXLINER 3D** sets new standards for industrial requirements. The innovative 3D inkjet on substrate technology for particularly high-quality digital 3D embellishment makes it possible to apply digital metallization, UV spot and relief varnishing with remarkable precision in a single work step.

Integration solutions

The **DM-FLEXLINER 3D** is a flexible, easy-to-integrate OEM digital embellishment module designed to upgrade both existing and new narrow-web machine platforms. Using inkjet on substrate technology, it produces filigree flat and haptic effects digitally.