

KOENIG & BAUER

Mailänder 283



we're on it.

Proven Technology, Born in Metal Decorating

Continuing a legacy of precision and reliability in metal decorating with modern technology from Koenig & Bauer MetalPrint.

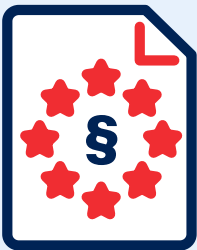
For generations, the name “Mailänder” has stood for robust engineering and reliability in metal decorating. Building on this heritage, the Mailänder 283 combines trusted craftsmanship with modern innovations from the MetalStar 4 platform.

Whether processing tinplate or aluminium, the Mailänder 283 offers the perfect balance of proven engineering and modern automation. Its unique flat sheet travel ensures smooth and precise handling, even with thick or heavy

sheets. This makes the Mailänder 283 ideally suited for a wide range of metal packaging applications such as closures, barrels and technical containers.

Thanks to its modular configuration, the Mailänder 283 can be tailored to individual line layouts, equipped with UV, UV-LED or thermal drying systems. Trusted by manufacturers worldwide, it represents the ideal balance of tradition and innovation, delivering consistent quality and lasting value in metal printing.

COMPLIANT. SECURE. FUTURE-PROOF.



Every product in this brochure meets the latest EU mandates, ensuring your market access remains seamless beyond 2027:

- **Machinery Regulation (2023/1230):** Guaranteed software integrity to prevent operating bans and eliminate liability traps.
- **CRA & IEC 62443:** “Secure by Design” architecture providing mandatory lifecycle protection and proactive security updates.

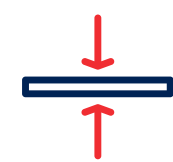
Our entire portfolio serves as your strategic shield for NIS2 obligations.

Secure your production with our compliant solutions.



Mailänder – Always a Good Choice

The Mailänder 283 is specially tailored to the needs of modern metal decorating production and offers unique advantages.



Tailored upgrade packages for thin, scroll and aluminium sheets ensure smooth, stable production and outstanding print results



Energy-efficient UV, UV-LED or thermal drying and curing solutions ensure cost-effective production in any line setup



Achieve excellent colour consistency and precise register alignment across all sheets



Benefit from configurations and equipment options that adapt precisely to your needs



High output up to 7500 sheets/hour through material-specific configuration and advanced automation



Simple machine design and a clear, ergonomic HMI make handling easy, shorten training times and increase operator confidence



Product Application

Koenig & Bauer’s proven Mailänder technology ensures efficiency, reliability and versatility in modern metal decorating production.

The Mailänder 283 combines proven Mailänder robustness with modern automation to deliver reliability and cost-efficient performance in metal decorating. Designed to handle a wide range of materials, from thin tinplate to thick or scroll sheets, it ensures smooth sheet travel and consistent quality, even under demanding conditions.

This versatility makes it the ideal solution for manufacturing of:

- Crown caps
- Twist-off lids
- Wine and spirit caps
- Barrels and technical containers
- General metal packaging for food and non-food segments

By customising the Mailänder 283 with optional equipment packages, you can ensure maximum cost-efficiency and long-term value across a diverse variety of products.





- MetalCure UV & UV-LED curing systems**
- Flexible integration of UV or UV-LED modules for efficient inline curing
 - Shorter production cycles thanks to instant curing and fast sheet turnaround
 - Significant energy savings with UV-LED technology due to standby mode and segmented activation
 - Low heat exposure on the sheet ensures high process stability and material protection



- Operator console**
- Easy operation of the entire printing press from one central console
 - Integrated LED standard lighting for reliable visual colour assessment
 - Automatic register setting with ErgoTronic ACR at the touch of a button ensures fast make-ready and consistent print results
 - Full control of all production and washing sequences directly from the console
 - User-friendly interface enables fast onboarding and short learning curves



- Sheet handling**
- Robust and durable components designed for long-lasting performance
 - Flexible configuration options to adapt the sheet handling system to individual production needs
 - Supports a wide range of sheet formats and substrates, including thick and heavy material
 - Easy access and adjustment for smooth operation and fast changeovers



- Inline coating**
- Seamless integration of inline coating
 - Available with three-roller and anilox systems for controlled coating application
 - Compatible with all common thermal and radiation-curing coating systems

Mailänder 283



- High-performance feeder**
- Proven, robust feeder design for reliable sheet transport
 - Upgrade packages for aluminium and scroll sheets ensure smooth and stable processing
 - Double sheet control and ejection for safe and interruption-free operation
 - Easy operation via local control panels
 - Operator support tools such as laser-assisted pile centering and motorised pile carrier adjustment



- Infeed table**
- Proven flat sheet transport for challenging substrates
 - Equipment options for scroll sheets, aluminium, thin and heavy-gauge substrates
 - Easy and precise adjustment to different sheet materials
 - Motorised format adjustment for fast changeover
 - Precise sheet alignment and operator-friendly handling



- High-performance printing unit**
- High reproducibility with bleed-free ink metering in the ColorTronic ink duct
 - EasyClean coated ink duct plates for fast ink changes
 - Individual shutdown of unneeded inking units reduces roller wear and make-ready times
 - Maintenance-free pneumatic ink duct for trouble-free print production with UV-LED inking systems



- Automated washing and cleaning systems**
- Reliable cleaning performance for consistent print quality and reduced manual effort
 - Automatic roller washing sequences ensure fast and thorough printing unit cleaning
 - Parallel washing of ink rollers during blanket washing with DriveTronic SRW for reduced downtime
 - Easy and intuitive operation directly from the control station

Logistics

- Roller conveyors for pile transport
- Gear driven roller conveyors for pile moving of slippery metal sheets
- Chain conveyor for side loading and unloading of piles for feeder or stacker
- Turntable for the safe rotation of piles



Stacker

- Modular stacker with up to five boxes for maximum flexibility
- Available as magnetic overhead (MagStack) or vacuum overhead version (VacStack)



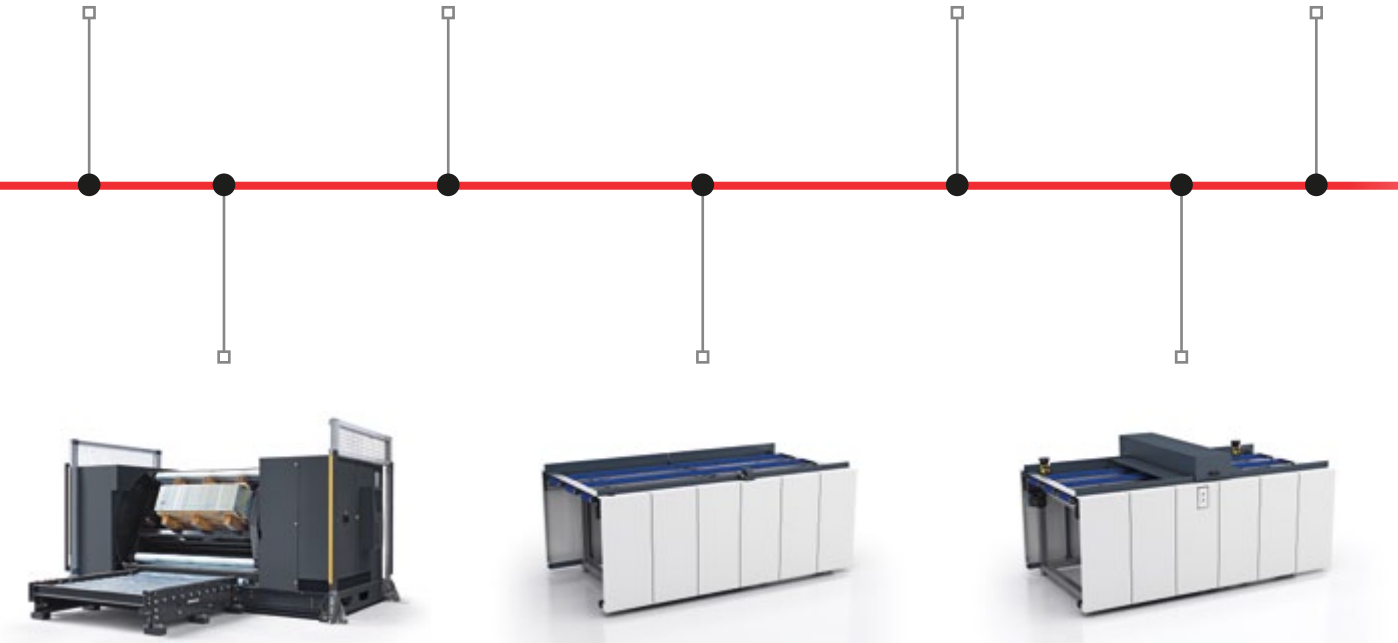
Inline coating

- MetalCoat 471 with 3-roller coating unit
- MetalCoat 484 with anilox coating unit
- MetalCoat 484 with 3-roller coating unit and high automation



Sheet Management System

- Safe ejection and handling of sheets
- Optionally with sheet re-infeed
- Optionally with waste box
- Optionally with sheet re-infeed and waste box



Pile turner

- Inline pile turner for safe and automatic turning of piles



Sheet transport

- Sheet transport for flow out of coated sheets
- Preparation for installation of camera systems for defect detection



Drying

- Established high-power curing with MetalCure UV
- Energy efficient curing solution with MetalCure LED
- Conventional thermal drying oven



A Matching Line for Every Application

As individual as your production. The Mailänder 283 is suitable for a broad spectrum of products and applications. Tailored precisely to your requirements.



Technical Data

Sheet format ¹				
Maximum	1000 x 1200	mm	39.37 x 47.24	inch
Minimum	510 x 710	mm	20.08 x 27.95	inch
Thickness	0.13 – 0.50 for tinplate	mm	0.0051 – 0.0197 for tinplate	inch
	0.18 – 0.50 for aluminium	mm	0.0071 – 0.0197 for aluminium	inch
Sheet material				
Tinplate and ECCS (TFS) complying with EN 10202 Aluminium complying with EN 541				
Sheet cut				
Straight Scroll				
Production speed ²				
up to 7500 sheets/h				
Print format				
Maximum printing area	995 x 1200	mm	39.17 x 47.24	inch
Gripper margin	3	mm	0.1181	inch
Print start	5	mm	0.1969	inch
Ink types				
Solvent-based inks, UV inks, UV-LED inks				

¹ Printability is also influenced decisively by the flexural rigidity of the substrate. Other formats and thicknesses available on request.

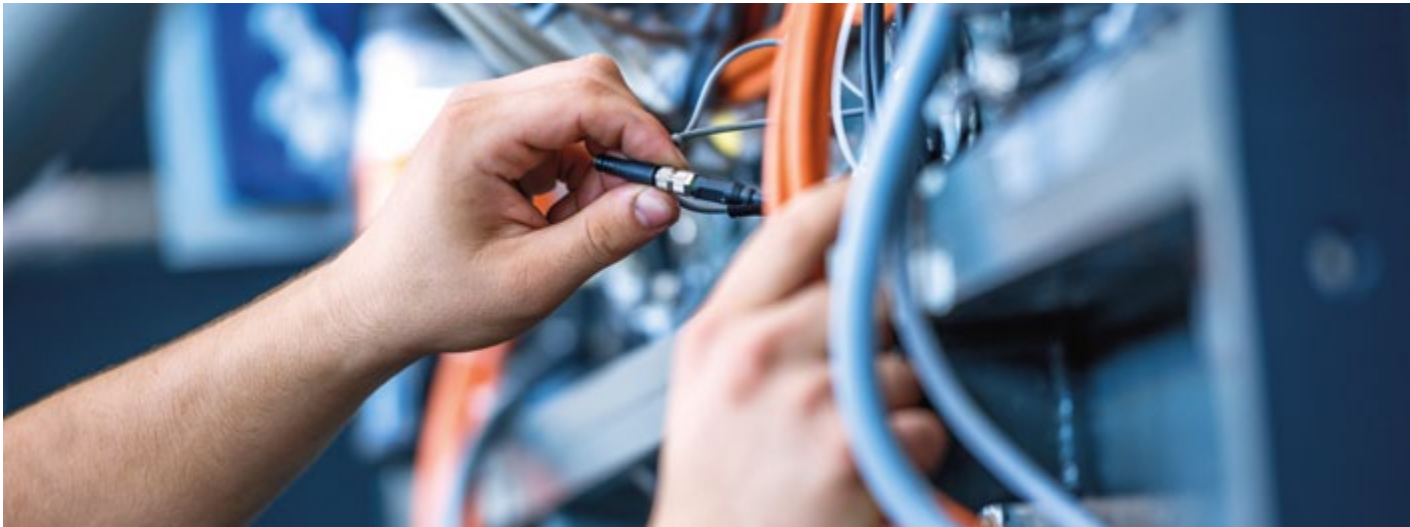
² Depending on quality, format and thickness of sheets, inks, etc. as well as drying oven specification.

Achievement of the listed capabilities may be subject to optional equipment.

Professional Services for Your Koenig & Bauer MetalPrint Products

We are at your service! Our experts provide assistance and support to your production lines. All over the world and over the full service life.

Time & productivity gains 24/7 Support	Only original Spare Parts	Tailored partnership Service Contracts
Stay up-to-date Upgrades	Preventing unplanned downtime Preventive Maintenance	Optimised production Training & Consulting



Koenig & Bauer MetalPrint GmbH

Wernerstr. 119-129
70435 Stuttgart, Germany

T +49 711 699 71-0
F +49 711 699 71-670
info-metalprint@koenig-bauer.com

metalprint.koenig-bauer.com



www.tuvsud.com/ms-zert

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