

KOENIG & BAUER

MetalCoat 471



we're on it.

Performance You Can Trust

The smart combination: proven technology meets coating innovation.

The MetalCoat 471 combines the established, renowned technology of its predecessor MetalCoat 470 with the latest technical innovations. Designed to meet the highest requirements for quality and productivity, the coating machine uses a proven three-roller coating application system to reliably handle any challenge.

The MetalCoat 471 excels at processing solvent based and UV/UV-LED coatings and demanding substrate qualities at high speeds.

Available as a free-standing or an inline coating machine, it prioritises ease of operation. A central touch operation enables a full line overview and at the same time the operation. The layer thickness settings can be done manually by hand wheels in the used manner, while electrical settings can be stored for faster set-up on repeat jobs. Optional features include adaptations for aluminium sheets, solutions for faster make-ready times and inline quality measurement devices.

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.

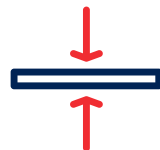


MetalCoat 471 – Unmatched Performance for Perfect Coating

Equipped with state-of-the-art technology, the MetalCoat 471 boosts productivity and availability while minimising production costs.



Increase productivity with fast line setting via stored job data management and intuitive, quick operation using central touch panels



Gentle sheet metal handling with reliable sheet tracking and optional, high-precision Venturi sheet guiding



Reduced energy consumption across the entire coating line by demand-controlled consumers



Low-energy HighEcon oven featuring integrated air purification for minimal gas consumption and a demand-controlled cooling zone



Simple handwheel adjustment allows for intuitive, flexible control over lacquer layer thickness, ensuring easy operation and precise manual settings for every requirement



Maximum machine availability and reduced service costs via smart components enabling in-depth remote diagnostics and fast remote assistance



Product Application

Koenig & Bauer MetalPrint's expertise guarantees the highest performance and robust design for all high-quality metal packaging applications.

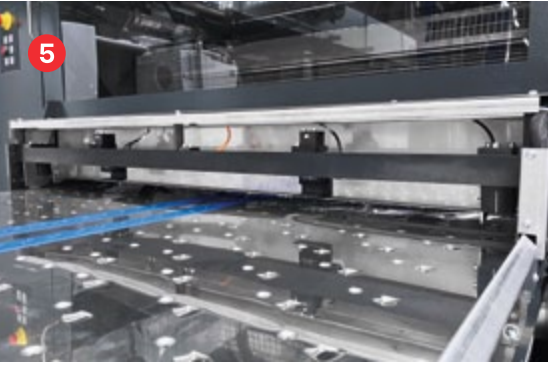
Equipped with a wide range of packages for straight or scroll cut, tin plate or aluminium sheets, the MetalCoat 471 meets all the requirements of the most demanding packaging applications.

Its flexibility allows for the efficient processing of all common coating types for internal, external, and protective coating, covering a broad spectrum of customer applications, such as:

- Food cans
- Technical cans
- Fancy cans
- Barrels
- Crown caps
- Twist-off caps
- Wine closures
- and many more

The ability to customise the coating line for specific applications ensures that a wide variety of products can be manufactured with maximum cost efficiency.





- Option: Inline sheet position control**
- Identifies skewed sheets plus lateral and longitudinal offset
 - Sensors integrated within the coating machine delivery area
 - Intuitive operation via the line control HMI, no additional control panel required
 - Minimises waste by detecting misregistered sheets early
 - Enables customised ejection of defective sheets
 - Supports seamless data transfer



- Round belt delivery**
- Safe conveyance of sheets using round belts
 - Small contact surfaces between the round belt and the sheet
 - Fast format adjustments
 - Low cleaning requirements
 - Pneumatically supported lifting and lowering

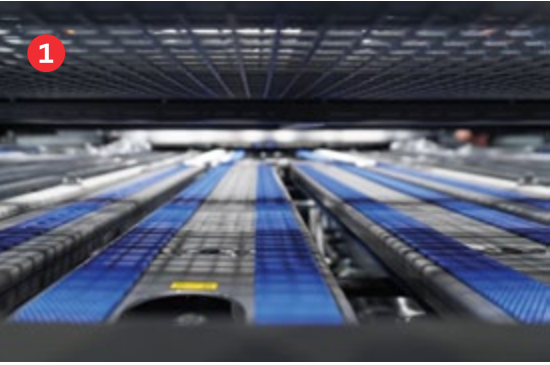


- Option: Coating thickness measurement**
- Continuous production control using two probes to monitor film weight
 - HMI monitoring and alerts notify the operator when values are exceeding thresholds
 - Manual nip adjustment based on real-time data ensures precise control and coating savings
 - Improved efficiency by reducing the frequency of required offline checks through immediate feedback



- Thermal dryer with integrated air purification**
- Cost-effective with low gas consumption with the HighEcon air purification system
 - Uniform temperature distribution in the heating zone with AirFlow Pro with specially designed baffles
 - Temperature control for prevention of tin flow
 - Effective exhaust air cabin
 - High-performance cooling zone with setpoint temperature control

MetalCoat 471



- VacuMatic infeed table and gripper drum**
- Perfect register thanks to vacuum belts and precise stops
 - Electronic format settings
 - Demand-oriented settings according to sheet weight
 - Storable settings for repeat or similar jobs
 - Exact sheet transfer to coating unit



- Reliable high-performance coating**
- Excellent coating results via precise three-roller technology
 - Easy manual adjustment of coating thickness using handwheels
 - Pneumatically controlled scraper blade system for the impression cylinder
 - Easy cleaning access allowing the operator to stand upright
 - Effective extraction of solvent-laden air



- Fast make-ready – easy operation**
- Rapid cylinder changes via integrated lifting device and rail roll-out
 - Easy zero setting for precise spot coating and reliable production starts
 - Quick-fit-kit for external part cleaning and faster coating changes
 - Quick-release varnish pump on a platform for easy access and removal



- Option: Solvent scraping systems for impression cylinder**
- Standard system ensures uniform force distribution, good performance, and fast cleaning
 - Optional Flexo system features quick-clamp assembly for faster blade changes
 - Solvent scraping device provides a secondary blade for additional cleaning
 - Optional blade grinding device offers automatic wet grinding and burr removal

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

- Single stacking
- Double stacking for uninterrupted production or separation of waste sheets
- Triple stacks for uninterrupted production and separation of waste sheets
- Available as magnetic overhead (MagStack) or vacuum overhead version (VacStack)



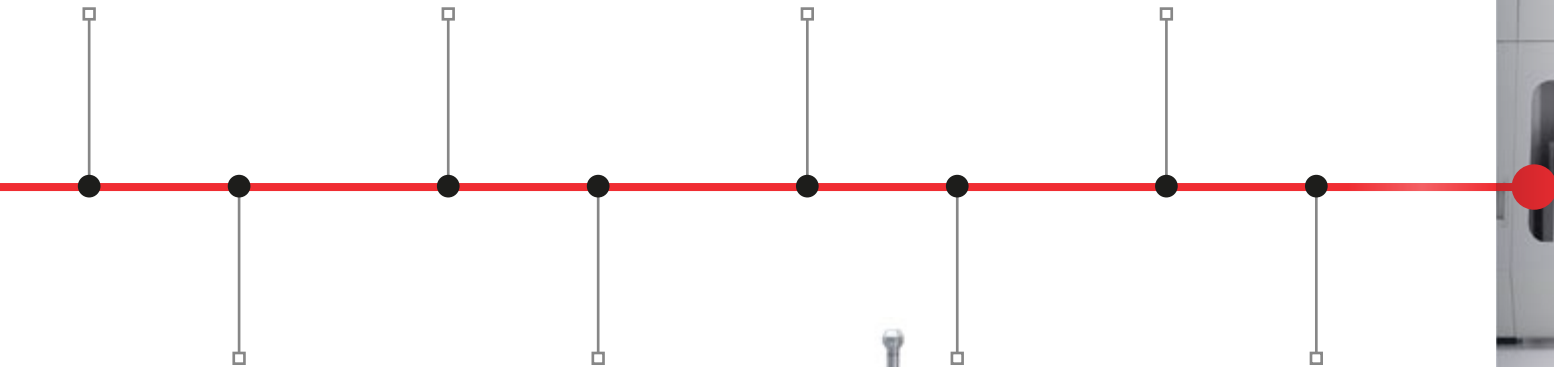
MetalCoat configurations

- Free-standing single coater
- Inline coating after press
- Tandem coating line: applying internal and external coatings in one pass
- Double coating line: applying two internal coatings in one pass



Single Sheet Ejection

- Flexible mounting on round belt, Venturi, or wide belt conveyors
- Secure sheet removal
- Re-infeed available
- Format-independent Venturi design



Pile turner

- Inline pile turner for safe and automatic turning of piles

Conveyor

- Round belt: minimised contact points to reduce contamination risk
- Venturi system: precision vacuum transfer with air cushion support
- Wide belt: stable transport following back-side drying



Thermal dryer

- Gas-saving HighEcon dryer with integrated air purification
- Direct heated dryer (no integrated air purification)
- Customised pre-dryer for tandem coating lines
- Fuel options: Natural gas, LPG, or hydrogen



UV/UV-LED dryer

- MetalCure UV: established high-power curing solution
- MetalCure LED: energy-efficient curing solution
- Final dryer integrated on conveyor
- Backside dryer installed downstream of the coating machine



A Matching Line for Every Application

As individual as your production. The MetalCoat 471 is suitable for a broad spectrum of products and applications. Tailored precisely to your requirements.



Technical Data

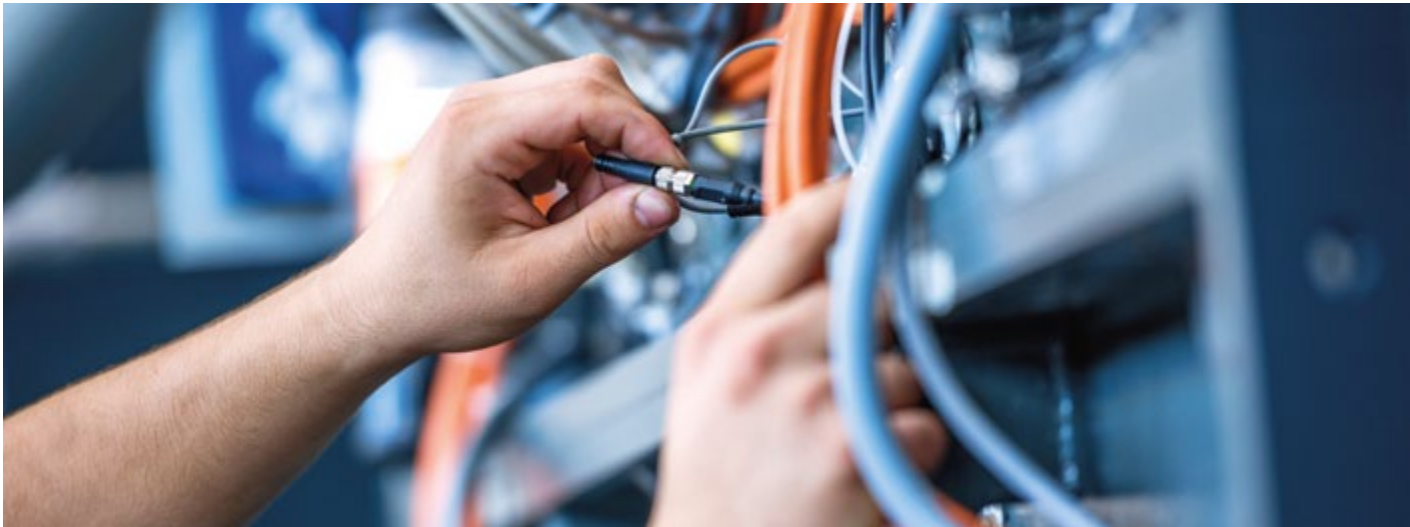
Sheet properties				
Maximum	1000 x 1200	mm	39.37 x 47.24	inch
Minimum	510 x 710	mm	20.08 x 27.95	inch
Thickness	0.12 – 0.50 for tinplate	mm	0.0047 – 0.0197 for tinplate	inch
	0.20 – 0.50 for aluminium	mm	0.0079 – 0.0197 for aluminium	inch
Weight	0.5 – 2.6	kg	1.102 – 5.732	lbs
Sheet material				
Tinplate and ECCS (TFS) complying with EN 10202 Aluminium complying with EN 541				
Sheet cut				
Straight Scroll				
Production speed ¹				
up to 8000 sheets/h				
Coating thickness				
3-roller coating unit	5 – 35	g/m²	0.1475 – 1.0323	oz/yd²
Anilox coating unit	3 – 10	g/m²	0.0885 – 0.2949	oz/yd²
Coating types				
Solvent-based lacquers, UV or UV-LED coatings				

¹ Depending on quality, format and thickness of sheets, coatings, and the specifications of the thermal dryer.
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



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