

KOENIG & BAUER

MetalStar 4



we're on it.

The Performance Benchmark in Metal Decorating

Setting the industry standard in metal decorating for over 30 years.

The objective for the development of the latest generation of MetalStar was to make the world’s most successful metal printing machine even more effective. The result is the performance benchmark in metal decorating – the MetalStar 4.

While the machine features a contemporary design, what truly matters is inside: cutting-edge technology that sets standards in production speed, make-ready times and automation. Developed from decades of experience and market leadership, the MetalStar 4 continues

the legacy of its predecessors and combines maximum productivity with unmatched flexibility, tailored to your specific needs.

Intelligent automation modules and integrated quality control systems increase profitability sheet by sheet. The MetalStar 4 delivers high output, consistent quality and reliable performance, making it the trusted choice worldwide for those who demand nothing less than excellence. And yet it remains what it has always been: the most innovative and modern high-performance metal printing machine.

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.



MetalStar 4 – Excellence in Every Sheet

Discover why the MetalStar 4 is the trusted choice in metal decorating.



Measuring and control systems inside and outside the machine ensure stable production, minimise waste and ensure outstanding print quality



The latest generation ErgoTronic console and distributed touch-screens make operation intuitive, reduce training needs and ensure maximum convenience



Automatic plate change and parallel washing systems shorten changeover times, reduce downtime and ensure maximum productivity



The MetalStar 4 adapts to your requirements with tailor-made line configurations and advanced drying technologies



Metal decorating-specific innovations in feeder and sheet handling guarantee smooth operation, stable production and maximum reliability



With production speeds up to 8500 sheets per hour, the MetalStar 4 sets the benchmark for metal printing machines and guarantees highest profitability



Product Application

Koenig & Bauer’s expertise in metal decorating delivers highest print quality and reliable design for demanding food and non-food packaging.

The MetalStar 4 is the performance leader in metal decorating. With industry-leading speed and advanced automation, it turns every production run into maximum output and efficiency. As the trusted high-end solution, the MetalStar is designed for demanding applications where productivity and quality make a difference.

The MetalStar 4 covers a wide range of applications, including:

- Food cans
- Fancy and decorative cans
- Chemical-technical containers
- and many more

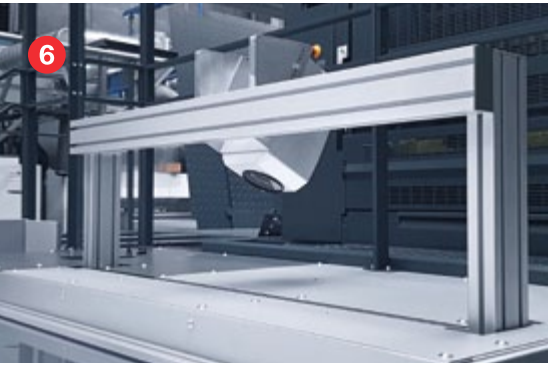
Whatever your production needs, its versatility makes the MetalStar 4 a flexible and future-proof solution, ensuring maximum productivity and cost-efficiency.



MetalStar 4



- Coating tower**
- State-of-the-art chamber blade technology with lightweight anilox rollers for highly efficient inline finishing and fast make-ready
 - Remote adjustment of the pressure supply as well as lateral, circumferential and diagonal registers
 - Fully automatic coating supply
 - Fully automatic cleaning processes controllable from console



- MetalControl**
- Integrated inline closed loop colour measurement system
 - Measurement of each sheet during production and automatic adjustment of ink keys according to defined target densities
 - Fully automatic operation during production
 - Automatic waste sheet detection
 - Visualisation on wallscreen



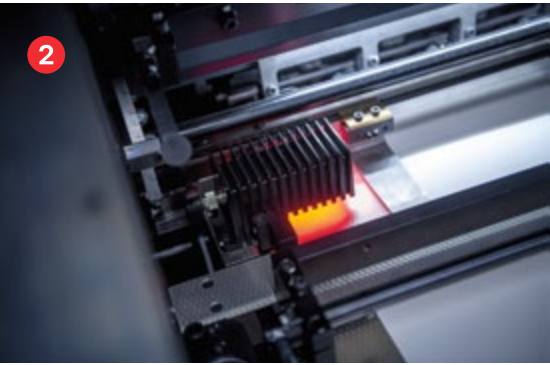
- MetalCure**
- Proven UV and UV-LED curing technology
 - Flexible use of dryers for intermediate and final drying
 - Fast and simple module exchange based on reliable plugged media connections
 - Energy saving MetalCure UV-LED for highest reduction of energy consumption



- ErgoTronic console**
- Wall screen and touchscreen for convenient and easy handling
 - Job changeover program for fully automatic make-ready process
 - Integrated measuring and control technology
 - Integration into LogoTronic production data acquisition system
 - Remote maintenance access conveniently from the console



- DriveTronic feeder**
- Automatic format adjustment and side edge control minimise make-ready times
 - Suction belt table with electronically controlled sheet deceleration for optimum sheet arrival speeds at the front lays
 - Easy operation via touchscreen



- DriveTronic SIS**
- Patented Sidelay free Infeed System for a more stable process and high availability
 - Electronically controlled lateral sheet alignment
 - Completely operator free, as it is integrated into the automatic format adjustment system



- 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**
- Maximum performance thanks to parallel washing processes and job-specific washing program preselection
 - CleanTronic Multi: Combination washing system for blanket and impression cylinder with swing-action washing beam
 - CleanTronic Synchro: Washing of blanket and impression cylinder simultaneously
 - CleanTronic UV: Blanket washing in stand-by mode of the UV lamps
 - DriveTronic SRW: Roller washing parallel to blanket and impression cylinder washing

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)



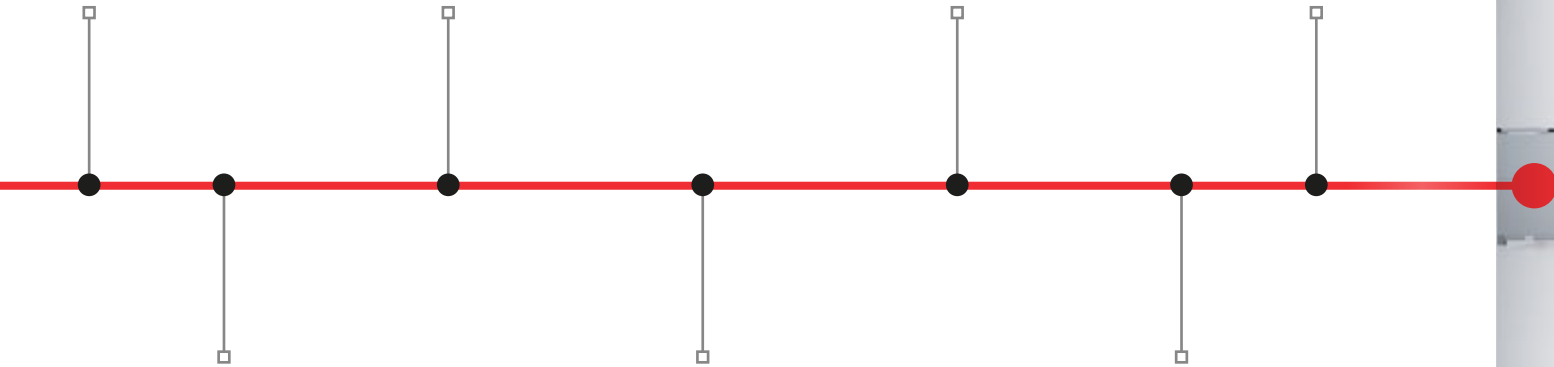
Inline coating

- 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 MetalStar 4 is suitable for a broad spectrum of products and applications. Tailored precisely to your requirements.



Technical Data

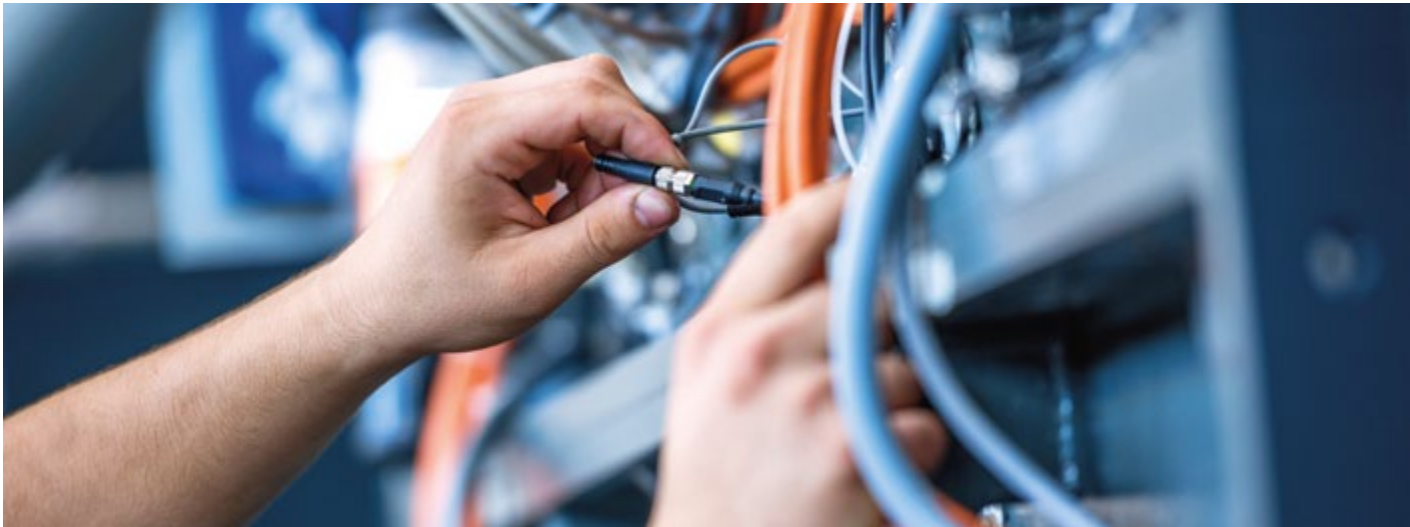
Sheet format ¹				
Maximum	1000 x 1200	mm	39.37 x 47.24	inch
Minimum	510 x 710	mm	20.08 x 27.95	inch
Thickness	0.12 – 0.40 for tinplate 0.15 – 0.40 for aluminium	mm	0.0047 – 0.0157 for tinplate 0.0059 – 0.0157 for aluminium	inch
Sheet material				
Tinplate and ECCS (TFS) complying with EN 10202 Aluminium complying with EN 541				
Sheet cut				
Straight Scroll				
Production speed ²				
up to 8500 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	Only original	Tailored partnership
24/7 Support	Spare Parts	Service Contracts
Stay up-to-date	Preventing unplanned downtime	Optimised production
Upgrades	Preventive Maintenance	Training & Consulting



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