

KOENIG & BAUER

MetJET ONE



we're on it.

The Most Cost-Effective and Easiest Entry into Digital Metal Decorating

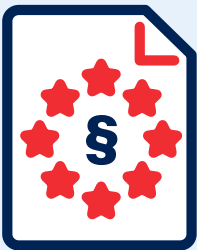
The MetJET ONE marks the start of digital metal decoration and revolutionises daily production with its simplicity, cost efficiency and flexibility.

The MetJET ONE has turned the vision of an affordable digital printing solution for the metal packaging market into reality. The result is digitally decorated metal packaging of the highest quality. This is made possible on the one hand by sheet handling modules, which have been familiar to the market for years in connection with analogue production systems. On the other hand, the printing unit optimised for metal printing contributes significantly to ensuring that flawless and crisp printing results are stacked at the end of the production line.

Unique features include Venturi transport systems, the innovative integration of a gripper system in material transport, a robust and reliable inkjet system with a resolution of up to 900x1200 dpi, and a feeder and stacking system couldn't be better suited to the industry.

All of this leads to unbeatable cost efficiency and flexibility that will make your business successful in the long term. The result: a future-proof solution designed to confidently meet even the most demanding and rapidly changing production requirements.

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.



MetJET ONE – An Excellent Alternative

The MetJET ONE is specially tailored to the needs of modern metal decorating production and offers unique opportunities.



Outstanding print quality thanks to state-of-the-art inkjet technology



Maximum flexibility in terms of configurations and equipment options – perfectly tailored to your individual requirements



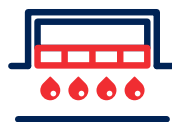
Speeds of up to 390 sheets/h and an application-specific design with high automation ensure minimum total costs of ownership



Easiest operation thanks to simple machine design and intuitive HMI for digital printing



Maximum availability, short set-up times and minimal waste, combined with UV-LED technology, ensure outstanding sustainability



Extended gamut by using light inks and the option of white ink



Product Application

Koenig & Bauer's MetJET ONE, featuring precise sheet feed and a high-quality multi-pass printing unit, is ideally suited for a wide range of high quality metal packaging applications.

By using customised sheet handling and adapting the printing process to the conditions of the metal decoration, an almost unlimited production of digitally printed metal packaging is possible. It is therefore able to process a wide range of customer applications, such as:

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

With the optional use of white ink and the integration of a MetalCoat inline coating machine, an entire production line can be created that enables a perfect entry into the world of digital printing and opens up new possibilities.





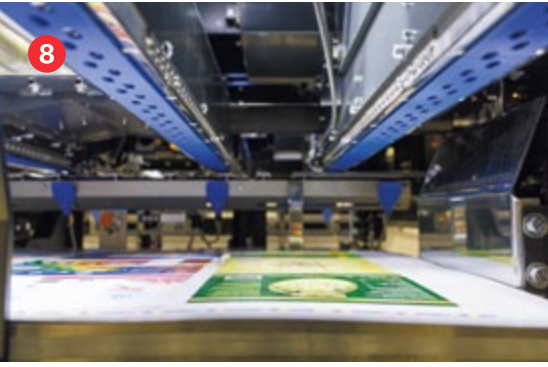
- Digital postprint sheet handling**
- Transfer of the printed sheets on three lanes and transport to three intermediate positions
 - Direction change: accurate, synchronous delivery of three sheets on one lane to the following line components
 - No manual format adjustments needed
 - Acceleration of the sheets to standard speed ensures free selection of downstream units



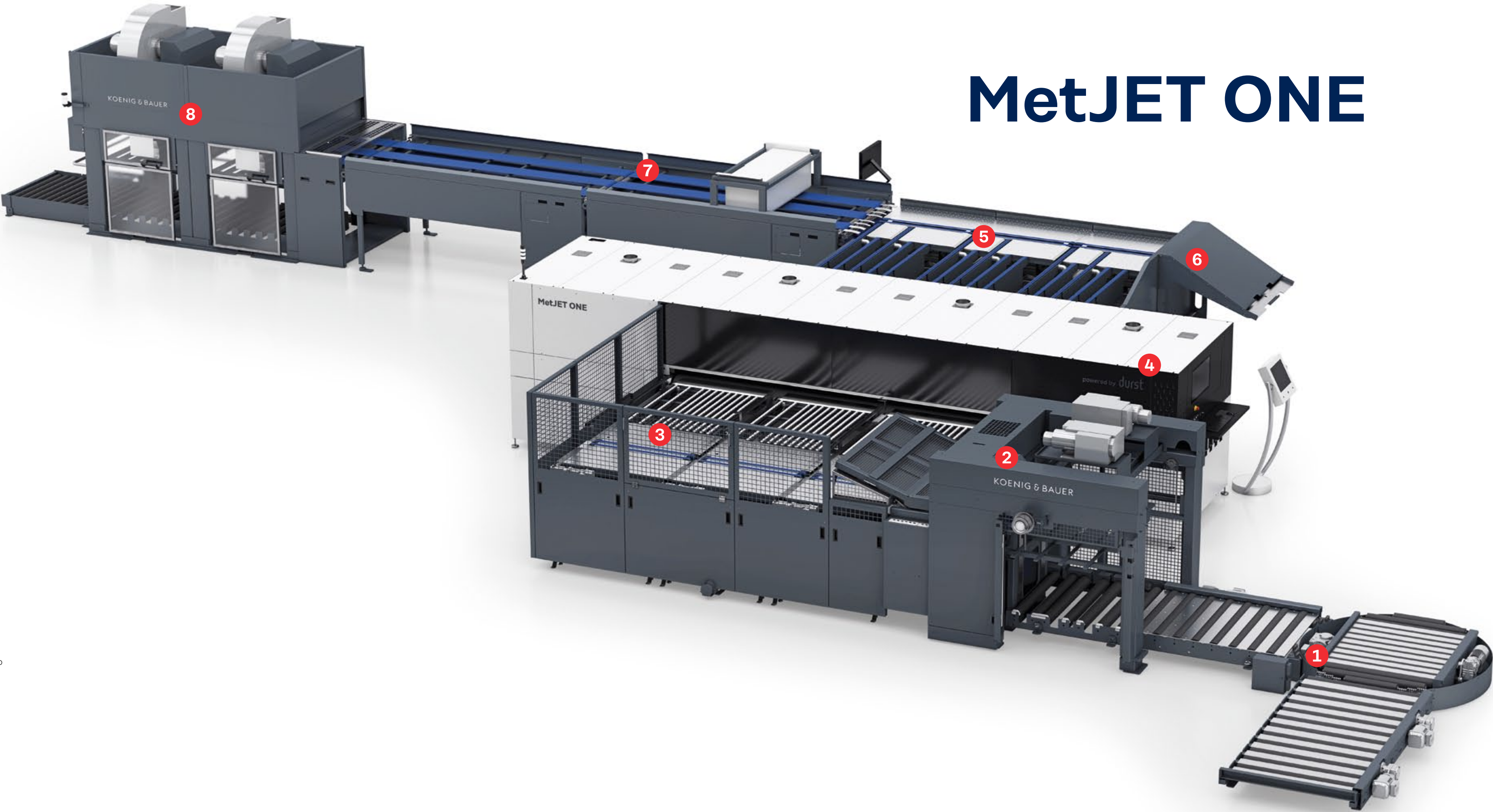
- Inspection table (or hybrid use)**
- Easy ejection of single sheets for visual inspection
 - Alternatively: interface for second feeder and hybrid use of the line (dedicated use of downstream line units without digital printing – particularly if MetalCoat is installed)



- Optional features and units**
- Inline coating for maximum process efficiency
 - Inline inspection for maximum quality assurance
 - Conveyors for special purposes



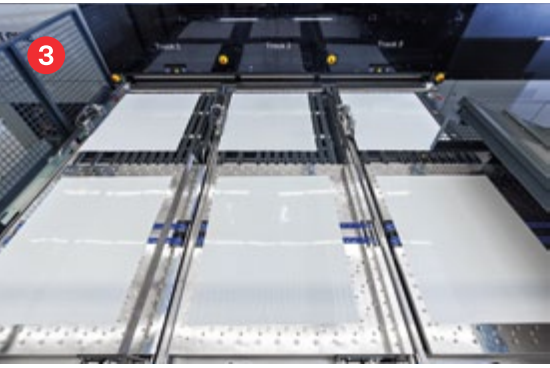
- Modular stacker**
- Modular design enables multiple box design as the best prerequisite for quick and frequent job changes
 - Suitable for tinplate or aluminium
 - Smooth, quiet and damage-free stacking ensures that every sheet in the stack is usable
 - Convenient unloading with optional roller or chain conveyor tracks



- Pallet handling**
- Roller conveyor systems and turntable for customised pallet loading from several directions
 - Easy and fast changes of pallets
 - Alternative pallet loading and unloading via chain conveyors available
 - Best access to the line with forklifts



- High-performance feeder**
- State-of-the-art single sheet feeder
 - Simple operation thanks to local controls and optional logistics for fast loading
 - Specific upgrade packages for aluminium and scroll sheets
 - Electronic synchronisation to the printing unit
 - Robust and durable design including double sheet control and ejection



- Digital preprint sheet handling**
- Single sheet stream coming from the feeder is precisely aligned at three intermediate positions using venturi transport systems
 - Gripper closure on the sheet
 - For maximum alignment accuracy, the sheets are in the gripper lock until controlled transfer to the throughfeed of the printing unit



- High-performance printing unit**
- High quality multi-pass UV-LED Inkjet system with integrated UV-LED curing
 - CMYK + Light Cyan + Light Magenta + optional Spot White
 - Maximum resolution of 900 x 1200 dpi
 - Performance of up to 390 sheets/hour and integrated safety system to safeguard the print heads
 - Operator's cockpit for easy and intuitive operation of the printing unit

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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)



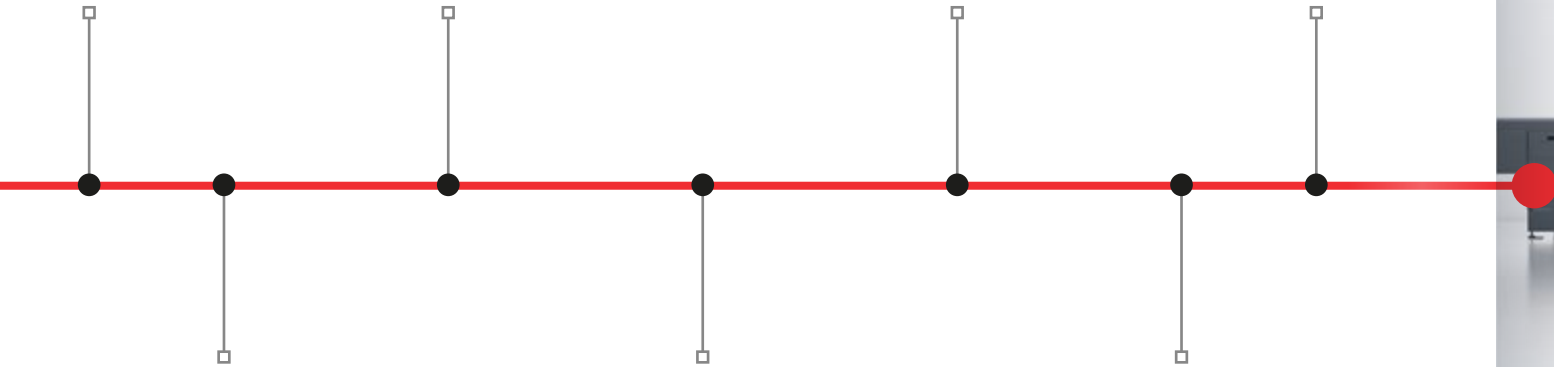
Inline coating

- 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



Matching Design for the Right Digital Entry

Rediscover the individuality of an analog production line. The MetJET ONE is equally modular and therefore ideally suited for a wide range of products and applications in short runs. 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	0.16 – 0.50	mm	0.0063 – 0.0197	inch
Sheet material ²				
Tinplate and ECCS (TFS) complying with EN 10202 Aluminium complying with EN 541				
Sheet cut				
Straight Scroll				
Production speed ³				
up to 390 sheets/h				
Resolution				
up to 900 x 1200 dpi				

¹ Printability is decisively influenced by the flexural rigidity and evenness of the substrate and can be qualitatively limited in the edge area (upgrades available for optimisation). Other formats and thicknesses available on request.

² A stricter tolerance of max. ±1.5 mm must be applied to any deviation of a sheet from the optimum flatness – whether due to damage or waviness. However, any deviation from the optimum flatness will have a negative impact on the print quality and/or the production speed.

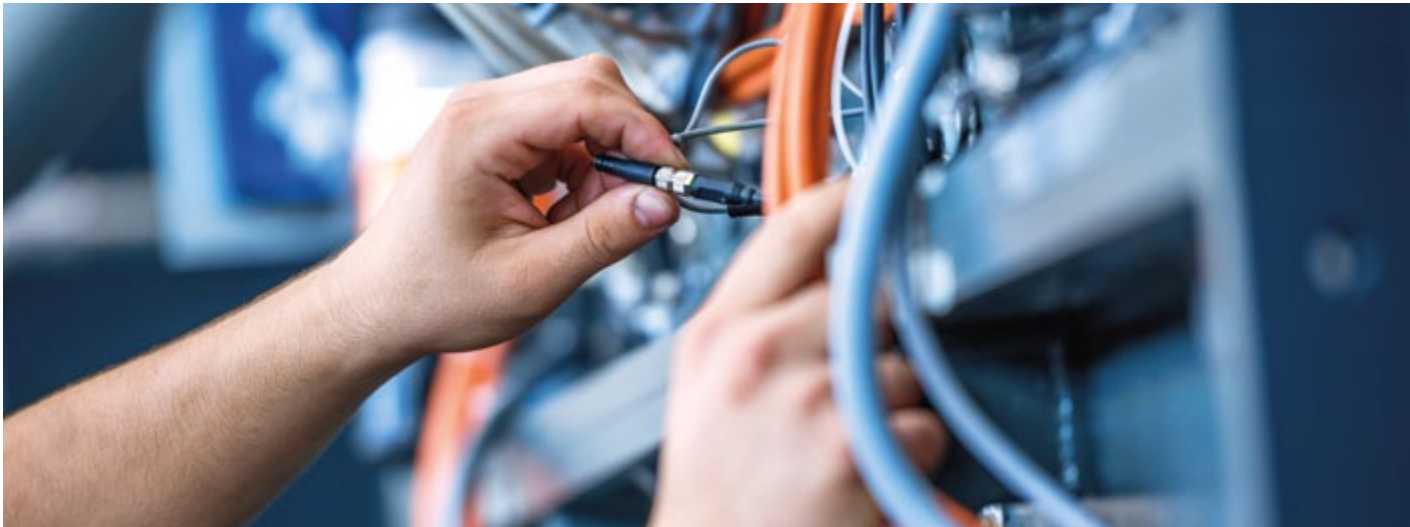
³ Depending on quality, format and thickness of sheets, inks, etc. as well as colour setting specification of the printing job.

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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