KOENIG & BAUER

MetJET ONE

we’re on it.

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 combines the best of two worlds: the best inkjet technology and reliable sheet handling.

The sheet handling system, some of which was specially developed for the MetJET ONE, uses state-of-the-art Venturi technology and gripper systems for precise feeding and smooth transport of the sheets. In addition to the specific infeed and delivery system, standard sheet handling units for the metal industry are used to enable a fully modular line configuration – just like on analog production lines.

The printing unit powered by Durst offers outstanding quality and precision. Using a UV-LED ink system with a large colour gamut, strong adhesion and flexibility, high-resolution prints on metal with vivid colours and consistent print quality are possible.
Never before has it been possible to produce a wide variety of end products in short runs so efficiently and with such low scrap rates.

MetJET ONE – An Excellent Alternative

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

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

Extended color range by using light inks and the option of white ink

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

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

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

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

Product Application

Koenig & Bauer's reliable and precise sheet feed, coupled with the high-quality multi-pass printing unit, meet the highest quality requirements. The MetJET ONE is therefore ideally equipped for the production of a wide range of high-quality applications in the metal packaging market.

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

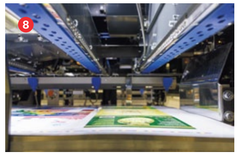
- Transfer of the printed sheets on three lanes and transport to three intermediate positions
- Direction change: stable, synchronous delivery of three sheets on one lane to the following line components
- No manually format adjustments needed
- Acceleration of the sheets to standard speed ensures free 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)

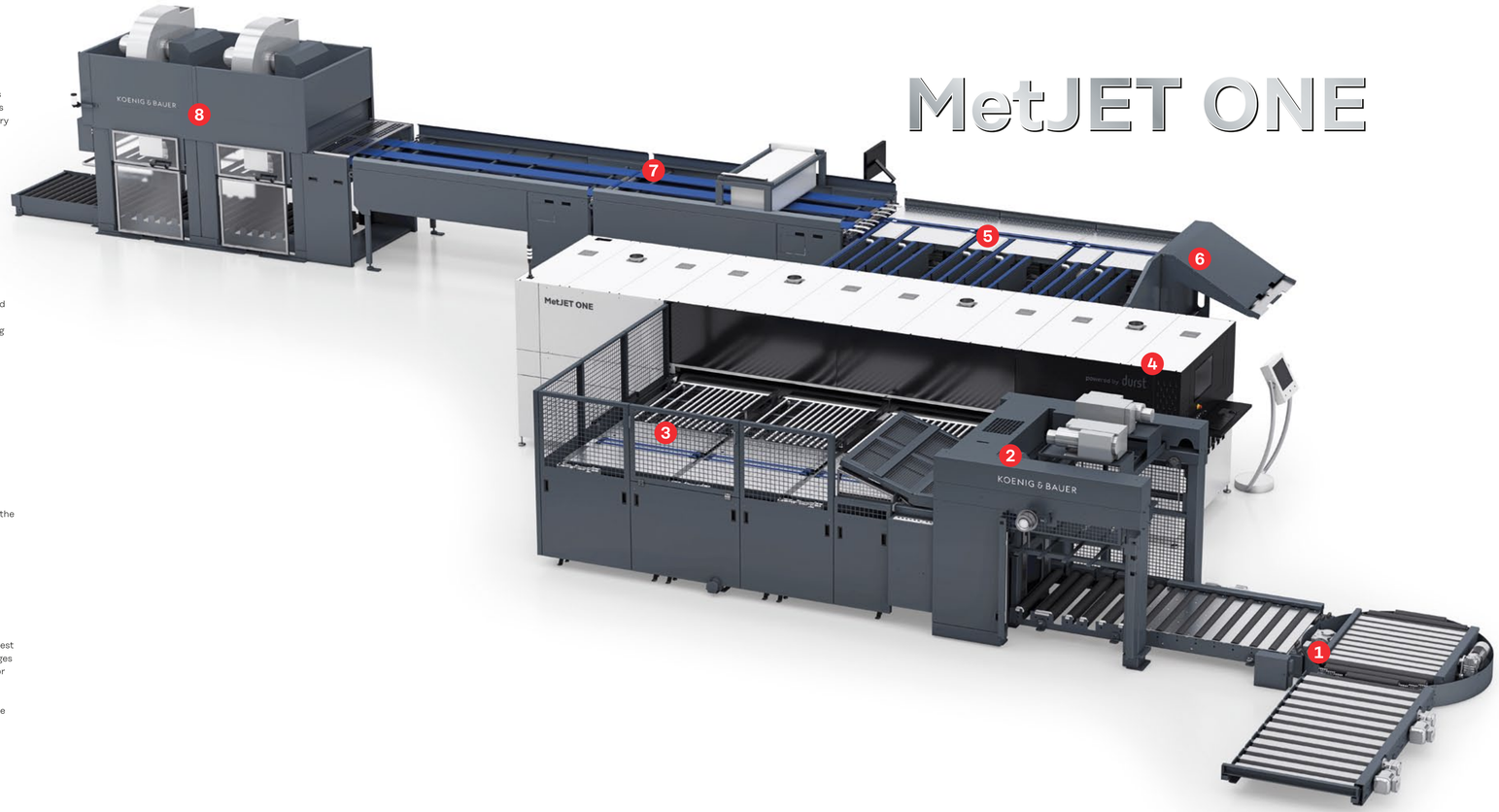
Conveyors (and other opt. features)

- Wide belt conveyors for inline inspection
- Inline quality control ensures reliable production
- Alternatively: MetalCoat and other units suitable for customised tuning of the line to the requirements of production



Stacker 806

- Single-, double- or triple-box design as the best prerequisite for quick and frequent job changes
- MagStack or VacStack versions for tinplate or aluminium
- Smooth, quiet and damage-free stacking ensures that every sheet in the stack is usable
- Roller conveyor-supported unloading guarantees convenient operation

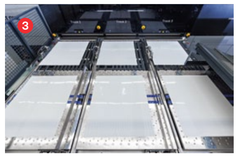


Modular logistics

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

High-performance feeder 780

- Market-proven and widely used feeder
- Specific upgrade packages for aluminium and scroll sheets
- Electronic synchronisation to the printing line
- Robust and durable design including double sheet control and ejection
- Simple operation thanks to local control panels and operator relief tools such as laser assisted pile centering and motorised adjustment of the pile carrier



Digital PrePrint sheet handling

- Single sheet stream coming from the feeder is precisely aligned at three intermediate positions using venturi transport systems
- Gripper lock for accurate sheet infeed
- Direction change: stable, synchronous infeed of three sheets into the printing unit
- 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

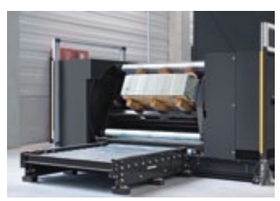
- High quality multi-pass UV-LED Inkjet system
- Integrated UV-LED curing
- CMYK + Light Cyan + Light Magenta + optional Spot White
- Maximum resolution of 900 x 1200 dpi
- Performance of up to 390 sheets/hour
- Integrated safety system to safeguard the print heads
- Operators cockpit for easy and intuitive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

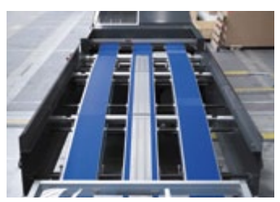
Logistics
- Roller conveyors for pile transport
- Gear driven roller conveyors for pile moving of slippery metal sheets
- Chain conveyor for side loading and unloading of piles for feeder or stacker
- Turntable for the safe rotation of piles

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

Inline coating
- MetalCoat 470 with 3-roller coating unit
- MetalCoat 480 with anilox coating unit
- MetalCoat 483 with 3-roller coating unit and high automation

Sheet Management System
- Secure sheet removal
- Optionally with sheet reinsertion
- Optionally with waste ejection
- Optionally with sheet reinsertion and waste ejection





Pile turner
- Inline pile turner for safe and automatic turning of piles

Inspection transport
- Conveyors prepared for the installation of inspection systems

Sheet transport
- Conveyors for bridging heights
- Flow out conveyors for coated sheets

Drying
- UV dryer
- Energy saving LED Drying 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		0.12 – 0.50 for tinplate 0.12 – 0.50 for aluminium	mm mm	0.0047 – 0.0197 for tinplate 0.0047 – 0.0197 for aluminium	inch inch
Sheet material [2]					
		Tinplate and ECCS (TFS) complying with EN 10202			
	(optional)	Aluminium complying with EN 541			
Sheet cut					
		Straight			
	(optional)	Scroll			
Resolution					
		up to 900 x 1200 dpi			
Production speed [3]					
		up to 390 sheets/h			
Feeder pile					
Maximum weight		3500	kg	7716.18	lbs
Operating environment					
Electrical power supply		3 x 400 V +/-5 %, 50 Hz			
	(optional)	Other voltage and / or frequency on request			
Compressed air		6 bar			
Relative humidity		45 – 60 %			
Ambient temperature		Max. 35 °C			
	(optional)	Max. 40 °C with cabinet climate control			
Installation altitude		Max. 1000 m above sea level			
	(optional)	Above 1000 m sea level on request			
Remote maintenance					
		via internet connection			

[1] Printability is also influenced decisively by the flexural rigidity and the flatness of the substrate.
[2] A stricter tolerance of max. ±1.5 mm must be applied to the deviation of a sheet from the optimum flatness – whether due to damage or waviness.
[3] Depending on quality, format and thickness of sheets, inks, etc. as well as colour setting specification.

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

Taylored partnership

Service Contracts

Stay up-to-date

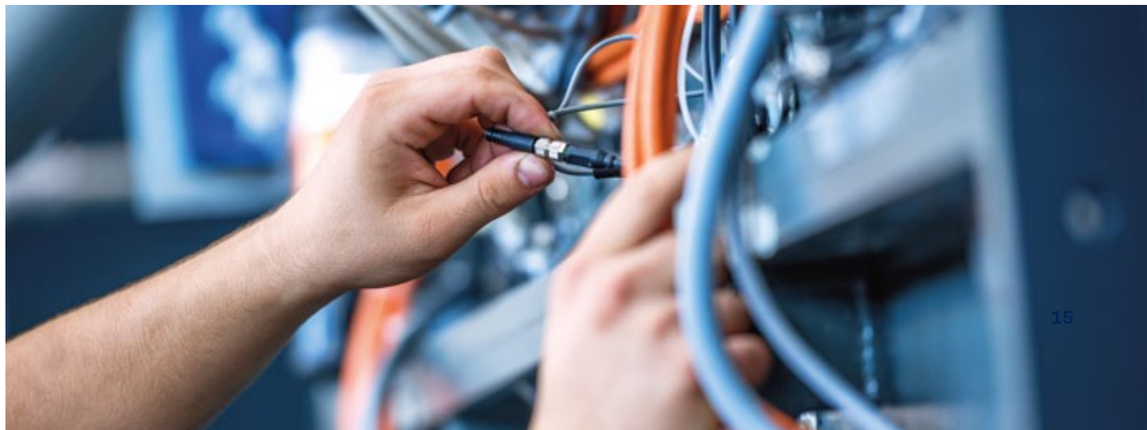
Upgrades

Preventing unplanned downtime

Preventive Maintenance

Optimised production

Training & Consulting



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