

Koenig &amp; Bauer's MetalStar 4 press



# KOENIG & BAUER

## Opening Up Individual Opportunities in Metal Decorating

**We look forward to welcoming you to stand B39 in hall 3. In addition to the MetalStar 4 press and the Venturi sheet guiding system – the company strategy Exceeding Print is an important focus. This summarises our corporate goals: digitalisation, modularity and sustainability.**

**The MetalStar 4 press with two printing towers and MetalControl colour measurement is the showpiece. Flying sheets: the new Venturi sheet guiding system for coating lines transports the metal sheets precisely and gently on an air cushion.**

### DIGITALISATION

Networking machines, capturing and analysing data, and controlling processes efficiently: There are many aspects to digital transformation in the metal decorating industry. From digitalisation solutions within the individual printing and coating machines, to the digital integration of all components along a complete line or transformation of the metal decorating process. Transparent, data-driven processes are the starting point for greater efficiency and cost-effectiveness. A high level of automation minimises risks and facilitates customisation – for a future-proof production process.

With the MetalStar 4, we have incorporated numerous digital solutions that support metal decorating production. The MetalControl closed-loop colour control system measures the colour density on every single sheet and then

adjusts the inking units accordingly to achieve the desired colour result – fully automatically and perfectly tailored to metal decorating. The ErgoTronic control console exchanges all relevant production parameters with the MetalStar 4 and also shares this information with a customer management system, while LogoTronic provides for the convenient and automatic visualisation of KPIs, trends and historical production data.

In addition, the coating process is now also more digitalised than ever before. The heart of the new MetalCoat 471 is a brand new software platform enabling use of the latest technology – TIA Portal from Siemens. The robust mechanical design of the MetalCoat 471 combines perfectly with cutting-edge software and electronics. Detailed status messages from individual sensors, graphical menu guidance and wear indicators are just a few of the details that will transform work on the line.

### SUSTAINABILITY

The EcoTNV and HighEcon air purification systems remain the benchmark for the energy-efficient thermal drying of metal sheets. Gas savings of up to 70% are possible with the HighEcon technology. Whether you use natural gas, LPG or LNG, and even if you are contemplating the switch to hydrogen, all options remain open with our drying ovens. We can help customers to determine the potential energy savings and the solution that is most efficient for them.

UV dryers are another energy-saving

option. The MetalCure UV dryers, which were introduced in 2015, uses traditional UV curing technology and have been installed on over 50 metal decorating presses all over the world. New in 2023 is MetalCure LED. The MetalCure LED dryers are based on UV-LED technology. This can reduce power consumption by up to 70%. UV-LED inks and coatings are available for a wide range of applications.

The energy management system VisuEnergy X follows the simple principle of “measure – visualise – realise” to display energy consumption as transparently as possible. It records and presents the energy consumption of individual consumers – even beyond the pressroom – and is thus the ideal tool to reduce energy waste.

### MODULARITY

Our modular product portfolio can be matched precisely to customer demands – number of printing units, integration of a coating machine, type of drying oven, etc. This makes every line a customised, best-in-class solution and not just another mass-produced, off-the-shelf product.

Take the new inspection conveyor with 2-sided inline quality control. This mounts the print inspection and coating inspection cameras. To be able to inspect both sides, the sheet is transported partly via a magnetic and vacuum-based overhead transport system. It can be integrated into printing or coating lines at whichever position is needed. 100% inspection of the front and back before stacking is no longer a problem.

