INTELLIGENT PLANTS, AUTOMATED EFFICIENCY

Digital system solutions from HAVER & BOECKER optimize modern production at KLB Kötztal

Seamless monitoring, smart control, recipe-accurate mixing: With the introduction of digital solutions from HAVER & BOECKER's QUAT²RO® brand, KLB Kötztal Lacke + Beschichtungen GmbH is benefiting from the many advantages of pioneering automation and digitalization solutions. Building on 25 years of company history, the family-owned business headquartered in Ichenhausen, Bavaria, is today one of the leading suppliers of coating materials and reaction resins for industrial flooring. Perfectly coordinated, high-quality system solutions are the hallmark of this successful mid-sized company. Alongside innovative concepts and outstanding expertise, its high standards of quality and service are delivered by a modern, high-performance production plant. To expand and modernize its production capabilities – and above all to comprehensively optimize its processes digitally – KLB Kötztal GmbH found the ideal partner in Westphalia-based HAVER & BOECKER OHG, with the digital products of its QUAT²RO® product brand and its subsidiary Sommer Maschinen- und Anlagenbau.

New plant, new possibilities: From construction to automation

The expansion and automation of production at KLB Kötztal GmbH began as early as August 2016, when the company commissioned HAVER subsidiary Sommer to build a new coating plant. The new mixing facility is precisely tailored to the customer's requirements: mixers, silos, tanks and containers, together with numerous scales, screw conveyors, pumps, pipelines and many other components, ensure the smooth production of high-quality paints and coatings. “The next step is to bring the new coating plant to life. And that's where HAVER & BOECKER's digital solutions come into play,” says Wilhelm Reinkemeier, Head of Engineering, Digital Products at HAVER & BOECKER. In close cooperation with the

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customer's experts and sister company Sommer, requirements are analyzed, specifications defined and solutions developed. The automation of the coating plant is designed to deliver a wide range of improvements by meeting two key requirements: in addition to recipe-accurate, reproducible batch process management, the focus is on centralized monitoring and easy operation of all connected plant components.



Finished products stored in large tanks at KLB.

QUAT²RO® Batch: Recipe-accurate mixing, flexible configuration

For around 20 years, the batch management systems of HAVER & BOECKER's digital product brand QUAT²RO® have stood for the intelligent configuration and management of complex mixing processes for bulk materials and liquids. For mixing the paints, adhesives, resins and other products of KLB Kötztal GmbH, the system solution has been adapted to the company's specific requirements. “The key factor here is the specific plant design required for mixing liquids and solids,” explains Wilhelm Reinkemeier. All ingredients – from silos and tanks as well as fixed containers and drums for smaller quantities – must be weighed precisely and conveyed to the mixer in the right amount and in the correct sequence. This is where further expertise comes in: the quality of the finished product also depends on the optimum duration and speed of mixing in the high-performance dissolver

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supplied by Sommer. An additional challenge at the southern German manufacturer: the required addition of explosive substances calls for strict compliance with regulations and safety precautions. QUAT²RO® Batch offers the right, future-proof solution for all of these requirements.

From transparent production to reproducible quality, the batch process management system delivers valuable benefits. “One particular advantage is the consistent quality of the products, with automatic adherence to target weights and complete tolerance monitoring,” explains digital products expert Wilhelm Reinkemeier. The results are maximum reliability and satisfied customers, as well as effective support for the manufacturer's own quality management: “Thanks to QUAT²RO® Batch, all processes and raw materials are fully traceable.” In addition, the batch management system offers maximum flexibility. Besides managing an unlimited number of recipes and configuring control recipes individually, it fully automates order creation and scheduling, the generation of batch logs, reports and statistics, and the management and documentation of production data, material consumption, inventories and finished products – and it is surprisingly easy to use. The digitalization solution is rounded off by its communication with the company's ERP system: by integrating the business and production levels, all processes – from order management and mixing to logistics – are optimized. The results are both tangible and measurable: machines and plants are utilized more efficiently, resources such as raw materials, energy and time are saved, and errors are minimized.

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Raw materials being discharged from silos for the mixing process at KLB.

QUAT²RO® Visualization: Effortless control, seamless monitoring

With the installation of the innovative process control system from HAVER & BOECKER's digital product brand QUAT²RO®, the renowned manufacturer's new coating plant gains the proverbial “eyes and ears” that never miss a relevant piece of information. Based on proven visualization standards, QUAT²RO® Visualization enables centralized monitoring and operation of all integrated plant components. “The graphical representation of the plant status guarantees the best possible overview,” summarizes Wilhelm Reinkemeier. Real-time capture of operating and fault messages, together with comprehensive measurement data, provides valuable support – from quickly pinpointing faults and identifying inefficient processes to providing information on upcoming tasks.

More digital QUAT²RO® products for every need

“Every pump, every screw conveyor, every element of production can be controlled individually and as required – fully automatically. All connected components communicate with one another, enabling more efficient, economical and reliable production. In addition, the state-of-the-art process visualization not only ensures seamless monitoring, control and

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supervision of the production process, but also enables its continuous optimization based on the data collected," summarizes HAVER & BOECKER engineer Wilhelm Reinkemeier.

At KLB Kötztal Lacke + Beschichtungen GmbH, the QUAT²RO® Batch process management system, together with the QUAT²RO® Visualization process control system and Sommer's mixing plants, is stirring up production in the best possible way.

With further digital system solutions under its QUAT²RO® product brand, HAVER & BOECKER offers customers and prospects innovative solutions for digitalization, automation and process optimization along the entire value chain of bulk materials and liquids.

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