

The logo for WAGNER, featuring a stylized triangle above the word "WAGNER" in a bold, black, sans-serif font, all contained within a yellow rectangular background.The logo for LIOSAPLAST AG, featuring a red circular emblem with a stylized sunburst or flower-like pattern above the company name "LIOSAPLAST AG" in a bold, black, sans-serif font. Below the name, the text "PULVER- UND NABBLACKBESICHTIGUNGEN" is written in a smaller, black, sans-serif font.

Menu-controlled paint changes for greater security

Investment in efficient powder coating

November 2016

Short processing times, reduced handling and top coating quality - these were the key requirements for a leading Swiss contract coating company's new surface system. WAGNER's SuperCube integrated fast paint-changing system with the new PXS powder feeder centre has mastered them with ease.

Based in St. Margrethen (Switzerland), Liosaplast AG specialises in customised coating solutions and top surface quality. For over forty years, this family company has been serving a demanding customer base from the chemicals, pharmaceuticals and food sectors, as well as the clock-making, electronics, vehicle construction, engineering and tool-making trades. Its functional and decorative plastic coatings are produced using sintering, wet or powder processes, depending on the customer's requirement. Liosaplast's tried-and-tested coatings are used in all applications calling for particular non-stick or anti-static properties, long-term chemical resistance, protection from corrosion by aggressive substances, insulation or lasting protection from wear.



An increasingly demanding customer base, ever-more specialist orders and the challenge of establishing itself in the international marketplace prompted Liosaplast to make the biggest investment in the company's history. "Some of our surface systems and infrastructure were becoming outdated. To handle large orders within the required timescales in future, our production needed to be more efficient, energy-saving and flexible," explained René Schläpfer, Managing Director of Liosaplast. The idea was implemented in 2016 and a completely new surface system with cutting-edge powder and wet coating was assembled in a new building on the company's premises.



Investment in efficient and flexible powder coating

A continuously growing spectrum of parts and ever-shorter lead times were causing increasing difficulties, in particular in powder coating. "We had to handle each part multiple times. For example, from pre-treatment in immersion baths to the system, hanging up and then rehanging and packing after coating. Time and quality constraints meant that we were no longer able to accept large orders. We needed a system that would allow the parts to flow through without additional handling, from hanging to final acceptance," explained René Schläpfer. He drew up detailed specifications for the company's new powder coating system, continuously adding and refining the criteria. In addition to the latest coating technology, the key requirements included simple operation, fast, safe and clean paint changes as well as optimal ventilation in the booth. René Schläpfer found the most convincing concept at WAGNER, **in the form of the SuperCube paint-change system and brand-new PXS powder centre**. "I was particularly impressed by the booth with its quiet ventilation. The vents on the sides of the booth generate a consistent and gentle flow of air. This is an important factor for us as the hangers can be just a short distance above the floor of the booth and there must be no adverse effect on the powder output from the lowest gun," said René Schläpfer, explaining his reasons for choosing the SuperCube paint-change system.

WAGNER's PXS powder centre is an absolute innovation. "The newly developed PXS powder feeder unit has a fully integrated control system for the powder centre, application, movement technology and booth. All controls and hardware are integrated in a control cabinet. As well as a rapid assembly time, this also allows central operation. A large display ensures the operator has the entire system under control at all times," explained Michael Topp, Senior Product Manager at WAGNER in Markdorf. The system's ergonomic operation is supported by the professional user interface for the touch-screen. Clearly legible text, meaningful icons and logical menu navigation assist everyday work. As well as allowing rapid paint changes, the system also provides operators with maximum security, as each step needs to be acknowledged before the next function is launched. Liosaplast views this as an important contribution to quality assurance. In addition, a high level of coating is guaranteed by a vibrating container with optimal fluidisation, a very short suction run and an ultrasonic sieve that is fully integrated in the powder tank. The small quantity of waste powder to be disposed of is emptied directly from the filter into a BigBag sack.

The system's ergonomic handling and flexibility are supported by a second touch-panel with the same operating functionality as the touch-screen on the PXS. It is located on the generously dimensioned post-coating station, allowing user-friendly operation and short reaction times away from the main workstation. The optimal flow of air in the booth makes it possible for the Corona powder guns to work with very low settings. This means very high transfer efficiency and low wear, resulting in a significant reduction in both powder consumption and running costs.

WAGNER's concept is distinguished by its flexibility and high power reserves. It will allow Liosaplast to ensure reliable and high-quality processing of all customer orders far into the future. The system worked as planned from the very first day, thanks not only to the modern technology, but also to smooth and on-time assembly, as well as good familiarisation training for operators. All things considered, René Schläpfer rates his investment very positively: "Liosaplast has established a reputation for offering customers intensive advice and support in development, construction and design definition. In particular for parts which require open space, we offer handling and coating solutions using special tools and chrome steel suspension devices. The new coating system is helping us expand this comprehensive service, to make our offering even more extensive, customer-oriented and flexible. The new powder coating system is an investment that is more than paying off for us and which will help us tap into more markets and customer segments."

