

IFE PAINTSHOP



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IFE PAINTSHOP
EFFICIENT. FLEXIBLE. SUSTAINABLE.

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SAFETY AND RELIABILITY IN THE PAINTING PROCESS.

To be able to also meet the high quality standards in the future, you need to have control over the processing stages right from the start and to be able to intervene at any time. Integrated in our production plant in Brno, Czech Republic, we have built a modern 4.000 m² paintshop which allows us to paint our door leaves to the highest quality in much shorter times.

1 INCREASED CORROSION PROTECTION DUE TO OPTIMUM PAINT ADHESION

Chemical pre-treatment forms the foundation for long-term adhesion and increased corrosion protection. The scheduled spraying system guarantees that the surfaces are pre-treated evenly due to the system of nozzles and the oscillating movement.

Moreover, the special chromium 6-free and phosphate-free conversion coating provides increased corrosion protection and process stability.

2 EFFICIENCY AND FLEXIBILITY IN THE PAINTING PROCESS

The entire plant has been designed to be able to react quickly and flexibly to customer-specific requirements, even to special paint systems and small batch sizes. The spray booths have been fitted with the latest equipment for efficient painting.

They have a special lifting mechanism to provide ergonomic and therefore optimal access to parts which also ensures the best painting results.

3 PERFECT PAINTING RESULTS WITH FULLY-AUTOMATED DRYING

The quick and controlled drying of the base coat plays a decisive role in the quality of the surface of a painted product. With our fully-automated dual-chamber drying system, we can control and monitor all drying procedures dynamically.

Various temperatures for bubble-free pre-drying and then thorough drying result in the perfect surface quality and robustness for further processing.



4 QUALITY ASSURANCE DUE TO CONTROLLED PROCESS STAGES

To maintain the high quality standards required, the painted surfaces are visually inspected, the thickness of the coating, the hue and gloss levels are measured and durability tests, optimized for the rail industry, are carried out during production in accordance with special test schedules.

The test procedures are adapted to the special requirements of the railway industry in our own validation centre and, in some cases, we developed them ourselves. This ensures the perfect coatings for the respective use case, starting with the selection of the right painting system to the delivery of the finished product.

5 OPTIMUM CURING IN THE TEMPERATURE-CONTROLLED WAREHOUSE

A temperature-controlled warehouse shortens processing time between curing the layers of paint and assembling the door leaves.

Due to the constant and increased temperature, the final curing of the paint layers is also strongly accelerated and optimized so that pressure marks from handling or transport to the customer are safely avoided.

The use of a driverless transport system prevents the door leaf becoming damaged. Once cured, the door leaves undergo another quality check.

6 SUSTAINABLE PRODUCTION TO ENSURE A CLEAN ENVIRONMENT

The principles of sustainability are firmly anchored into our corporate strategy and the operative processes. When planning our paintshop, we were careful to design sustainable production processes. So we avoided cleaning agents containing solvents in the chemical pre-treatment stage. The liquids used are collected and re-used after processing.

In the adsorption-zeolite filtering, most of the solvents from curing the paints is retained and re-used thermally. This means that paints containing solvents can be processed in an equally environmentally-friendly way as water-based paints.