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Single Source Preservation Lines

Rösler is your single source for complete turn-key preservation lines for the surface treatment of unfinished steel products. Our focus is on cost-effective surface treatment for your parts, and high uptime for our equipment. As a single source supplier, Rösler is best qualified to integrate surface treatment lines into existing manufacturing systems. We minimize the problems of interfacing the components of the preservation line with the overall manufacturing system, thus facilitating the overall investment planning process for our customers.

Our services include:

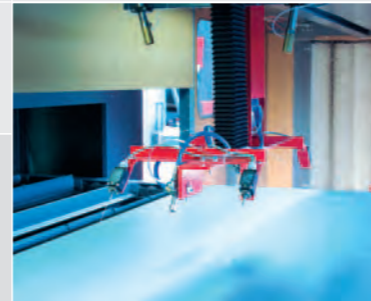
- Preparation of manufacturing layouts
- Project management for our customers
- Engineering/Fabrication/Installation
- Modernisation of existing preservation lines
- Spare parts, service and maintenance

Preservation lines are used for pre- and final coating. The main area of application is coating parts with a welding primer for temporary corrosion protection. A preservation line usually consists of specially engineered conveyor systems, a pre-heater, a roller conveyor or shot blast machine, an automatic paint spray system and a subsequent dryer. Depending on the customer requirements, different types of conveyor systems may be used, such as roller conveyors, chain or slat conveyors, cross conveyors, etc. The entire line is totally engineered around the specific application and size and geometry of the parts.

The pre-heater, in connection with a blow-off unit, allows the processing of parts which are stored outside and may be covered with moisture or even snow or ice. Pre-heating the parts prevents moisture from contaminating the steel media and it reduces the drying time after coating the parts with a primer. The primer, which is sprayed onto the parts by the fully automatic painting system, is dried in a dryer located behind the painting system. Therefore, the treated parts are immediately available for the next manufacturing step without any delay.



Exit Painting Cabinet



Inside-View Painting Cabinet



Complete Preservation Line



Roller-Conveyor Blast Cleaning Machine

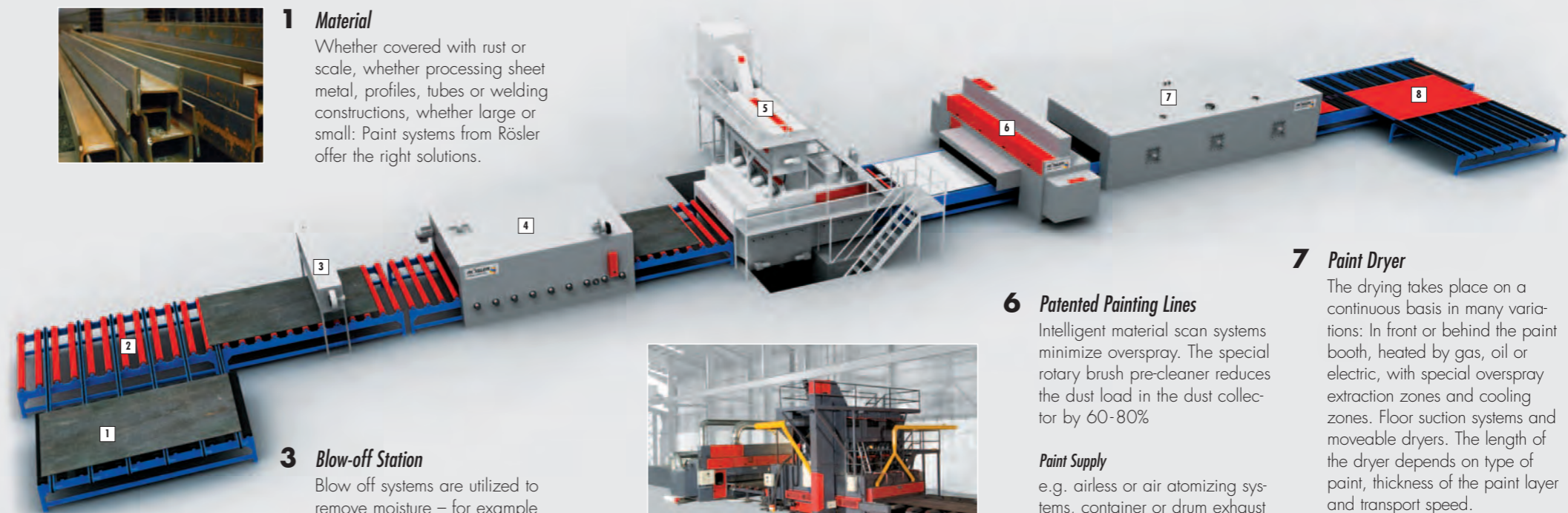
Shot blast systems

The roller conveyor shot blast systems are an essential part of the overall preservation line. The parts (large steel sheets, tubes and round bars, angle bars and I-beams) travel on a roller conveyor through the pre-heater chamber, the blast chamber and a blow-off/brush-off station. The high performance blast wheels – mounted to the machine housing – ensure all-round and reproducible blast coverage of the parts, while providing an optimal preparation of the parts surface for the subsequent primer coating.



1 Material

Whether covered with rust or scale, whether processing sheet metal, profiles, tubes or welding constructions, whether large or small: Paint systems from Rösler offer the right solutions.



2 Transport Systems

e.g. roller conveyors, chain (slat) conveyors, conveyors for the painting section, cross conveyors ("lift and go"), fork conveyors, shuttle conveyors, drives and controls for automatic conveyor lines, parts turning and collecting systems for welding constructions and tubes.

4 Pre-Heater

Heat is good against ice, cold and wetness. It prevents moisture from getting into the blast media. And it shortens the drying time after painting. The pre-heater brings the material up to painting temperature, thus facilitating the shot blast and paint process. Processing times are greatly reduced!

5 Shotblasting Machines

Rust and scale disappear in no time! The shot blast machine makes sure that the parts are cleaned to customer specifications.

6 Patented Painting Lines

Intelligent material scan systems minimize overspray. The special rotary brush pre-cleaner reduces the dust load in the dust collector by 60-80%

Paint Supply

e.g. airless or air atomizing systems, container or drum exhaust plants, paint heaters, mixing and distribution systems for "2K", solvent or water-based paints and coating materials, paint storage rooms according to WHG.

7 Paint Dryer

The drying takes place on a continuous basis in many variations: In front or behind the paint booth, heated by gas, oil or electric, with special overspray extraction zones and cooling zones. Floor suction systems and moveable dryers. The length of the dryer depends on type of paint, thickness of the paint layer and transport speed.

8 The Final Product

