www.sop-international.si

Are you in demand of high-quality technological equipment which will enable you and your products the best possible surface protection and extend the lifetime of your products?
Do not hesitate to contact us!

We will be more than happy to find the best solution to meet your individual needs!
SOP-INTERNATIONAL d.o.o., Cvetkova ulica 27, 1000 Ljubljana, Slovenia
Factory Krško, Vrbina 14, 8270 Krško, Slovenia

SOP International®

Specialists for surface protection of metals

Optimized and effective tailor - made solutions!

Wet coating of products and intermediate products

Wet coating is the most widely used procedure of surface protection of various products. Although the process itself is rather old, the modernisation of the application procedure and the development of new coating materials made it possible for it to present on the market up to this day.

Advantages of wet paints:

- Coverage of all types of materials,
- Wide range of layer thickness,
- Complete coverage of complex forms and sharp edges, as well as hollow parts.

Our company SOP - INTERNATIONAL designs and installs wet coating lines since 1962. The company's main goal is to manufacture high-tech lines which satisfy all of our customer's needs, enable qualitative surface protection, and are at the same time energy-efficient and environmentally-friendly.

1

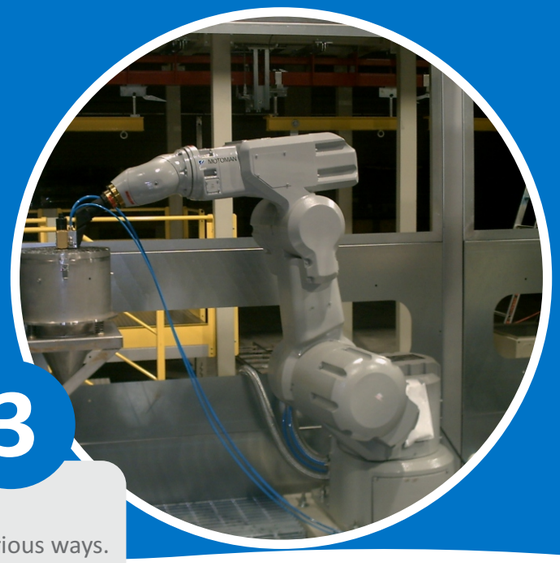
Work piece pre-treatment

Prior to application of coatings, work piece surfaces have to undergo a pre-treatment process, which enables a qualitative surface protection. The pre-treatment process depends on individual customer's desires. Our lines incorporate systems for chemical pre-treatment on the basis of spraying or dipping, mastic application chamber, grinding and polishing chambers etc.

3

Application of wet paints

Wet paints can be applied in various ways. They are appropriate for dipping method, robot application, as well as for manual application with a spraying gung, which is the most frequently used method. In cases with bigger work pieces which are difficult to reach, we also manufacture and install lifts, developed by our experts.



4

Evaporation and drying

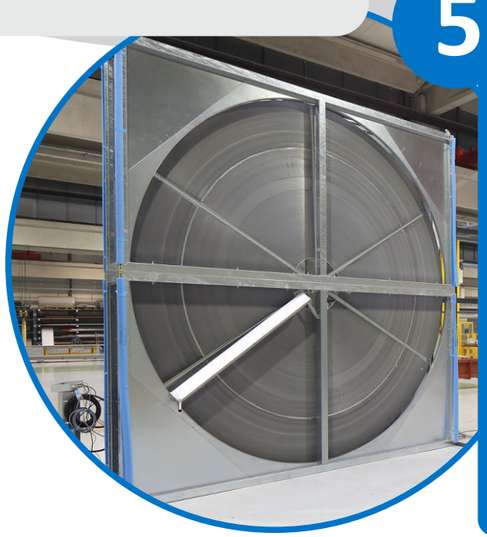
Wet paints contain large amount of volatile matter (water, solvents), which is why evaporation is extremely important when using some of the wet paints. Therefore, evaporation tunnels are used to remove most of the volatile substance, which prevents their evaporation after the top layer of paints is already dry and consequently formation of bubbles on the surface of the work piece. In comparison to other surface protection methods, drying is done at lower temperatures, which means that the energy input is smaller during the drying phase.

Transportation systems

Reliable conveyor systems are extremely important for a smooth functioning of the painting line. The company SOP-International specialises in all types of conveyor systems: P&F overhead conveyors, P&F floor conveyor systems, SINGLE overhead and floor conveyors, conveyor tables, floor conveyors, super power pushers, pneumatic trolleys, as well as super power overhead conveyors for burdens of 10 tons or more. We also manufacture lifting tables and hoisting equipment to enable an easier handling with the work pieces during the loading or unloading phase or during the process itself, when needed.

2

5



Energy efficieny and environmental protection

The nature will appreciate it!

Despite their versatility, wet coatings still represent a certain environmental burden. Namely, wet paints contain various concentrations of solvents (VOC). The company SOP-INTERNATIONAL deals with these environmental issues in an effective manner. In order to maintain intrinsically safe conditions, fresh air is constantly supplied into chambers, which is heated to room temperature. At the same time air, polluted with solvents is exhausted from the paint chamber. We reduce the use of energy for heating of the air, especially during the winter, by installing heat recuperators into our lines. These recuperators recover part of the energy of the waste air, which is then reused for heating of the fresh air. The use of such recuperators enables up to 75% of heat recovery. Discharge of solvents into the environment represents another environmental burden. In order to reduce such burden to the lowest possible level, we install systems for incineration of solvents into our lines. Heat recovered during the incineration process can then be used for heating one of the units in the process.