



Inropa™ WindowPainter

Automatic Scanning and Robotized Painting of Windows and Doors.

Inropa™ WindowPainter automatically programs the robot by use of 3D-scanning of the parts.

Inropa™ WindowPainter is a well-proven technology that ensures a high surface quality, reduces costs for personnel and paint material and increases production by ensuring a constant and optimized flow in the paint line.



■ The operator hangs the parts on the conveyor



■ The parts are sent through the paint line where a laser scanner scans them



■ The OLP Automatic generates the programs automatically

AUTOMATIC PROGRAMMING

With an Inropa™ WindowPainter system, the operator mounts the parts on the conveyor and sends them through the paint line. Inropa™ WindowPainter utilizes the Inropa™ Laser-Scanning system to automatically scan the parts and generate the robot programs.

The parts are scanned in 3D which means that, along with the size and shape of each individual part, the position and orientation is also taken into account. As a result, the program for each part is optimized individually to ensure an optimal surface quality as well as a minimum of paint consumption. As each program is created on the fly, Inropa™ WindowPainter is optimal for painting lot size one products.

HIGH SURFACE QUALITY

It is possible to adjust painting parameters such as angles, speed, and painting pressure for each surface type of window or door. This means that it is possible to vary the quality for the front compared to the inside or outside of the window or door, if desired. As the settings are constant regardless of the size and shape of the parts, a repeatable high surface quality is obtained when using the Inropa™ WindowPainter system.

INCREASE PRODUCTION CAPACITY

The parts will be painted while moving on the conveyor line in a constant flow. The Inropa™ WindowPainter ensures a smooth flow in the paint line and it will be attainable to gain

synergies by efficient integration with upstream and downstream production. Just-in-time production is strongly supported.

The speed of the conveyor is automatically adjusted depending on the complexity of the part. The system will therefore automatically optimize the capacity of the paint line.

REDUCE COST OF PRODUCTION

Because of the repeatable high surface quality the Inropa™ WindowPainter system will in most cases reduce costs for paint material and for re-painting. Using robots will furthermore reduce ventilation and heating costs by recirculating the air in the spray cabin.

Also, personnel for painting and moving parts will normally be reduced significantly since the parts are painted by the robots and automatically transferred to the drying area.

It is possible to combine the system with automatic colour change equipment, which will enable fast colour changes with minimal waste of paint material.

WELL PROVEN TECHNOLOGY

The technology is running in several industrial paint lines for windows and doors and the technology is used for several other industrial applications worldwide.

For further information, please visit our website www.inropa.com

