



Automatic scanning and robotized painting of windows and doors.



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



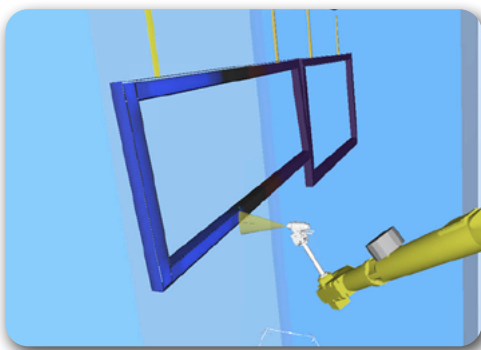
Higher capacity,
higher throughput



Production statistics
for optimization



High-quality finish
in complex zones



WindowPainter creates 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 then utilizes the Inropa™ 3D-scanning system to auto-

matically scan the parts and generate robot programs.

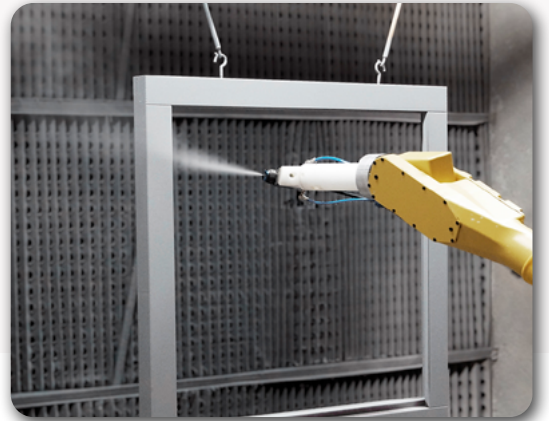
The parts are scanned in 3D, which means that, along with the size and shape of each individual part, the position and orientation are also taken into account. As a result, the program for each part is optimized individually to ensure optimal surface quality as well as a minimum of paint consumption.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

HIGH SURFACE QUALITY

You can adjust painting parameters such as angles, speed, and paint

pressure for each surface type on a window or door. This means that it is possible to vary the finish quality for the front compared to the inside or outside of the window or door, if desired.

Because the settings remain constant regardless of the size and shape of the parts, a repeatable high surface quality is obtained when using the Inropa™ WindowPainter system.



The operator hangs the parts on the conveyor, and the parts are then sent through the paint line, where a 3D scanner scans them. Based on these scans, the Automatic Programmer generates the programs automatically.

INCREASE PRODUCTION CAPACITY

The parts are painted while moving on the conveyor in a constant flow. The Inropa™ WindowPainter ensures a smooth flow in the paint line, and it enables efficient integration with upstream and downstream production to create synergies. Just-in-time production is strongly supported.

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

REDUCE COST OF PRODUCTION

Because of the consistently high surface quality, the Inropa™ WindowPainter system will, in most cases,

reduce paint-material costs and the need for repainting. 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 typically be reduced significantly since the robots paint the parts and automatically transfers them to the drying area.

Inropa™ WindowPainter can be combined with automatic color change equipment, enabling fast color changes with minimal paint waste.

WELL-PROVEN TECHNOLOGY

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