

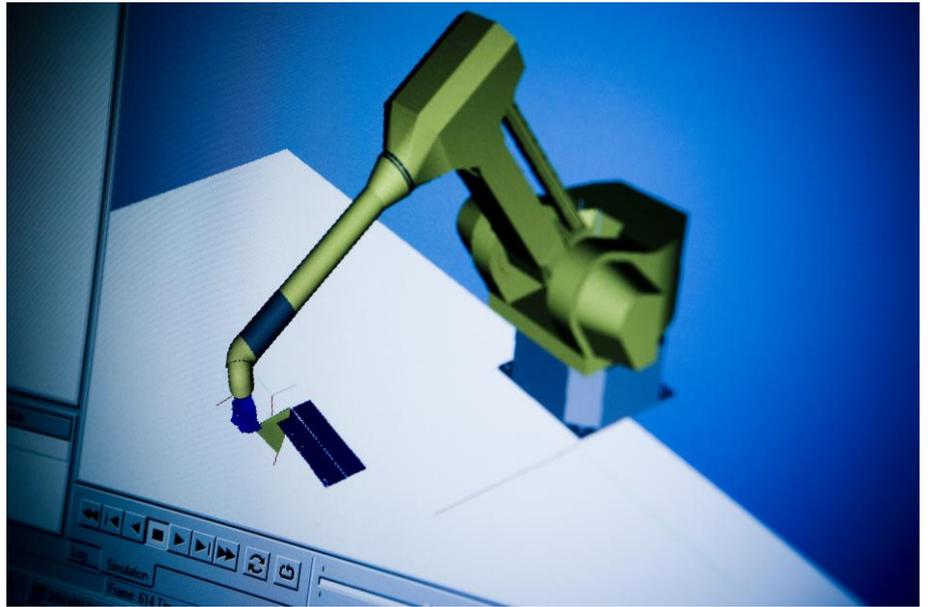


Inropa™ CabinetPainter

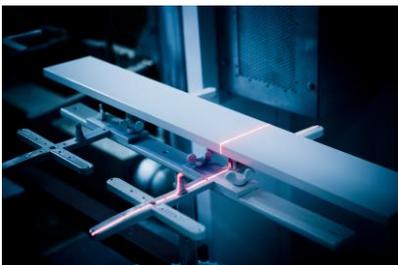
Automatic Scanning and Robotized Painting of Kitchen Cabinet Doors.

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

Inropa™ CabinetPainter 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 mounts the parts on the conveyor



■ The parts are sent through the paint line and scanned in 3D



■ The OLP Automatic generates the robot programs automatically

AUTOMATIC PROGRAMMING

Inropa™ CabinetPainter utilizes the Inropa™ LaserScanner. The operator mounts the parts on the conveyor and sends them through the paint line. The Inropa™ CabinetPainter then scans the parts and programs the robots on the fly. This means that no human robot programming is necessary.

The Inropa™ LaserScanner system is working in 3D, which means the position and orientation of each individual part is taken into account. Also different dimensions of parts will be handled so an optimal surface quality and minimal consumption of paint material can be reached. Furthermore it is possible to specify different colours and coverage for the individual parts.

It is also possible to adjust the general settings of all painting parameters for specific paint and quality requirements, such as angles, speed of the conveyor, and paint pressure.

As each part is programmed on the fly based on the system parameters. The Inropa™ CabinetPainter is optimal for painting lot size one products with low complexity.

HIGH SURFACE QUALITY

The 3D-scanner is parameter-based which means that painting speed, and angles remain the same for a given surface. As the risks of manual errors are removed, the system will ensure a repeatable high surface quality which will ultimately contribute to a higher market value of the products.

INCREASE PRODUCTION CAPACITY

The parts will be painted while moving on the conveyor line with a constant flow. The system will ensure 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 and size of the part. The system will automatically optimize the capacity of the paint line and a minimum of waiting time is therefore achieved.

REDUCE PRODUCTION COST

Because of the repeatable high surface quality, the Inropa™ CabinetPainter 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.

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

Also, it is possible to combine the system with automatic color change which will enable fast color changes with minimal waste of paint material.

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

