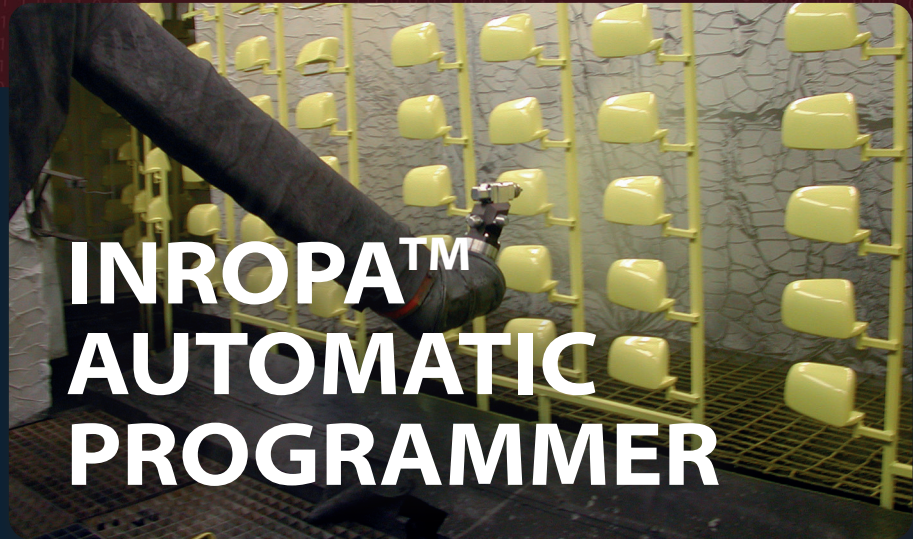Automatic scanning and programming of paint and surface treatment robots.

INROPA™ AUTOMATIC PROGRAMMER

Inropa™ Automatic Programmer is a proven technology that automatically programs paint robots by 3D-scanning the parts. It is already used by industries such as metal, wind, wood, and steel. Inropa™ Automatic Programmer ensures high surface quality and increases production by ensuring a constant flow.

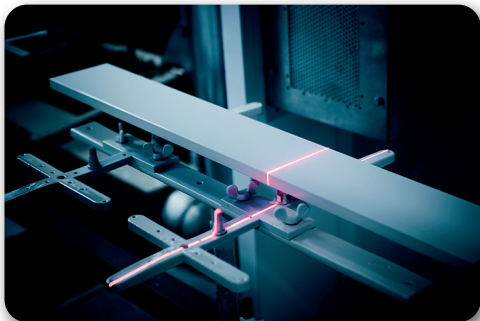Automatic program adjustment to make up for inaccurate positioning

Significantly reduces time consumption and personnel costs

Industrial painting made easier and more reliable than ever

AUTOMATIC PROGRAMMING

With Inropa™ Automatic Programmer, the operator mounts the part on the conveyor and sends it through the paint line. Inropa™ Automatic Programmer utilizes Inropa™ LaserScanner to scan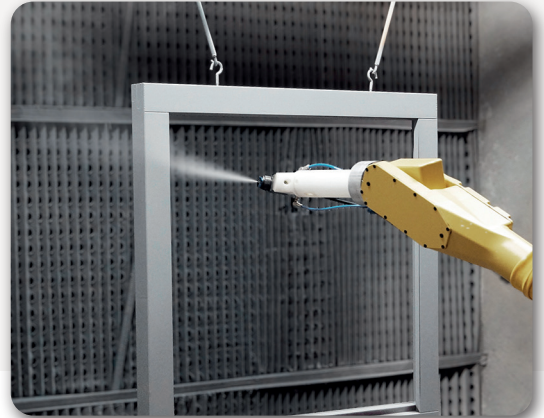 the part and create an exact 3D-model of the part. The system then generates the robot programs automatically which means that no human robot programming is necessary: Inropa™ Automatic Programmer creates the program for you.

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. This enables the system to tell if a part has been positio-

ned inaccurately and adjust the paint program accordingly. As a result, the program is optimized for each individual part.

As each program is created on the fly, Inropa™ Automatic Programmer is optimal for painting lot size one products, whether the products are metal parts for agriculture, windows and doors, cupboard doors, rotor blades for the windmill industry, truck engines, or steel rafters.

Inropa™ Automatic Programmer requires no manual programming and automatically adjusts a robot paint program for inaccurate part positioning on the conveyor, and therefore makes robot painting easier and more reliable than ever.

BENEFITS OF AUTOMATIC PROGRAMMER

The Inropa™ Automatic Programmer system is optimized for painting and surface treatment. It ensures high flexibility and high surface quality, and will in most cases reduce cost for material and personnel.

With Inropa's automatic solution, the program goes through a chain of automation, where no mouse clicks are needed. The system takes over when a part is positioned on the conveyor and sent through the paint line:

The software automatically identifies surfaces and creates paint strokes; a motion planner component tests the compatibility of the planned strokes with the robot in question; and the data is sent to simulation, where the software selects or generates the motions that will make the robot move as smoothly and quickly as possible to paint the parts with ease.

At the same time, robot paint programming with Inropa™ Automatic Programmer is faster: The above-mentioned automated process takes less than a minute.

With an Inropa™ Automatic Programmer system it is possible to adjust painting parameters such as angles, speed, and paint pressure for each surface type.

WELL-PROVEN TECHNOLOGY

The technology for Inropa™ Automatic Programmer is running in several different industrial paint and surface treatment lines worldwide and creates more than 7.000 robot programs every day.