



# r o b o t i c s

**The painting robots**

**in the world of wood**

**a well-established reality**

**advantages, benefits and solutions**

**with the full respect of the environment**

# THE PAINTING OF ASSEMBLED CHAIRS AND SIMILAR PIECES



## 5-axis Robots + carousel and controlled piece rotation



**GR 520-G:** Five-axis robot suitable for the automatic painting of the chairs, this model **cannot be Ex-p (explosion proof)** and can only be used with water-based and solvent-free paints

Average hourly production **100/120 chairs with electrostatic gun (required)**. Direct self-learning programming. Industrial Personal Computer with a color display for the interface.



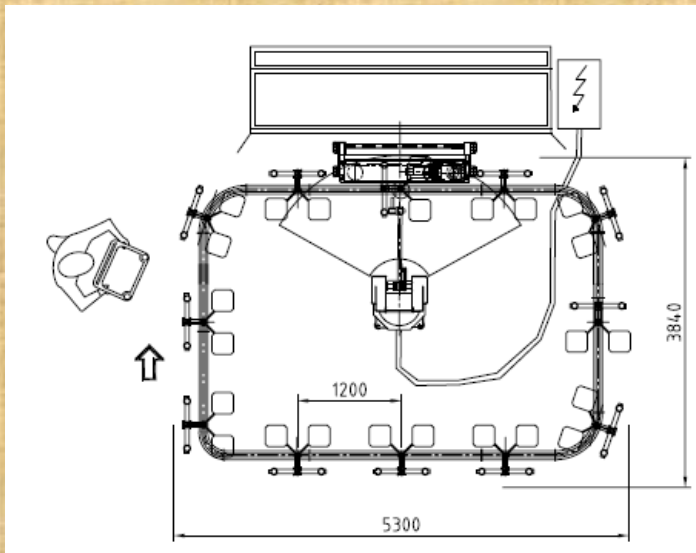
**GR 530-G:** Five-axis robot suitable for the automatic painting of the chairs, this model **can be Ex-p (explosion proof)** and so can be used with water-based paints as well as with solvent-based ones

Average hourly production **130/180 chairs with electrostatic gun (required)**. Direct self-learning programming. Industrial Personal Computer with a color display for the interface.

## High productivity Plants for assemble chairs



GR 530 ST



These facilities consist of a transporter with continuous motion, of a five or six-axis robot and of an automatic and synchronized rotation system for the pieces. The painting is done while the conveyor is in continuous movement, the robot is synchronized to its speed and controls the rotation of the piece in front of him.

Production: **more than 200 chairs** per hour with electrostatic gun

## Six-axis Robots + carousel and controlled piece rotation



**GR 630 G**

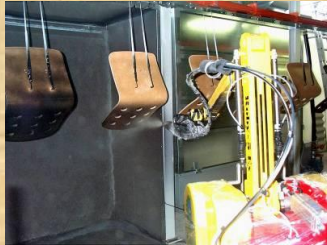
**GR 630-G:** a six-axis robot suitable for the automatic painting of the chairs and tables and small furniture, with a maximum dimensions of 120 cm x 60 cm x 120 cm ; this model can be Ex-p (explosion proof) and so can be used with water-based paints as well as with solvent-based ones. Average hourly production **60/80 chairs with traditional gun, 100/120 with electrostatic gun.**

Average hourly production **50/80 tables with traditional gun.**

Programming direct self-learning and point to point. Industrial Personal Computer with a color display for the interface.

**Advantages:** *This model is ideal to paint chairs, small furniture and tables, provides the same benefits of five-axis models, but with the possibility of using both conventional and electrostatic spray guns. Additionally it can be programmed using either the **direct self-learning system** or the **Point to Point method***

# PAINING OF DISASSEMBLED CHAIRS AND SIMILAR PIECES



GR 520 ST



GR 530 ST

## Five-axis Robots synchronized with the transporter

Five-axis robots for the painting of parts presented on a conveyor. Usually in this configuration one can find two opposing robots working together to paint both sides of the pieces, or a single robot that use a synchronized piece rotation system. The system can work with both conveyor with movement step by step or continuous; in this second case, the robot is synchronized with the conveyor.

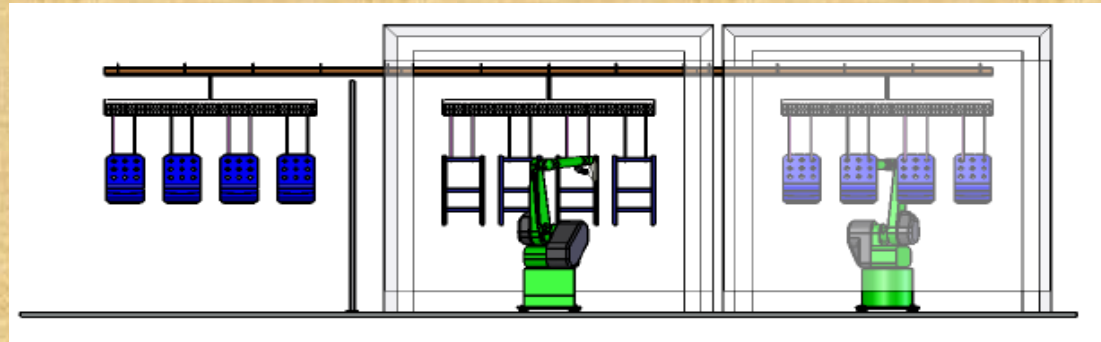
Programming is done using the direct self learning system while the conveyor is moving

**Advantages:** *better quality of the finish, no need for manual retouching, high productivity, low consumption of paint, reduction of waste in the cabin and so lower cost of disposal*

# 6-axis Robots with the conveyor synchronization and automatic programming

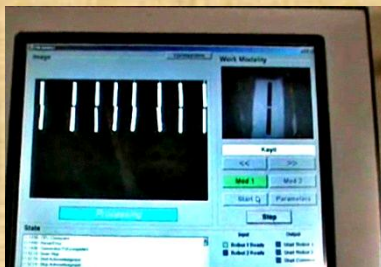


GR 630 ST

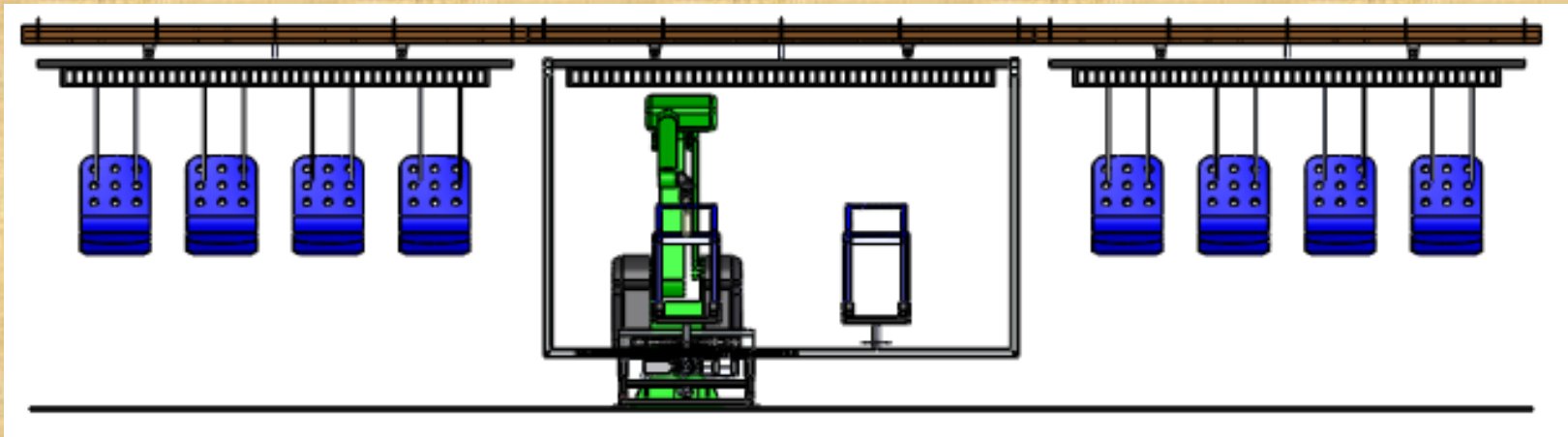


## Fully automatic system for painting disassembled chairs.

Thanks to an automatic detection system of the pieces, the painting programs are created automatically, without any previous cycle programming; only the painting parameters are required depending on the products and used the type of guns used. The two Robots are working in an opposite position with reference to the conveyor in continuous motion: because of that you get very high production volumes with high quality, no need for manual retouching. You can use both traditional and electrostatic guns to get important paint savings.



## Six-axis robots with controlled piece rotation system



Coating of plates, mounted chairs, armchairs, furniture, all the pieces that can be either hung or placed on special supports, rotated in front of the robot; rotating painting cups can be used for significant savings of paint