



MAESTRO **THE HIGH LEVEL COMPLETE SOLUTION FOR COATING DOOR AND WINDOW FRAMES**

The frame production market demands ever increasing flexibility. The introduction of a versatile, reliable robotised system like **Maestro** from **Superfici** simplifies small batch management. It also guarantees the continuity typical of robotised solutions. Add to this the possibility of fast colour changes with reduced coating wastage, and it is clear how a robotised system is perfectly suited even for production with custom finishes, managing numerous different small orders.

The robot can be used with pneumatic or electrostatic application systems and easily adapts to any coating requirements.

Main benefits of a Maestro anthropomorphic robot spraying line:

- **reduced production times**
- **uniform and continuous application quality**, which is difficult to achieve manually.
- **improved control of product quantity** and, therefore, savings in terms of paint/coating consumption.
- **easy, flexible robot control.**

The spraying robot fits perfectly in coating lines that can, for example, include rotation of workpieces on the conveyor system to allow spraying of both faces, or the use of two opposite robots, where this is justified by the capacity required. The robot is often used in lines complete with drying systems, even sophisticated ones with microwave technology that considerably shorten production cycles, further extending the flexibility of the entire plant.

Maestro, Technology Highlights:

WIDE SPRAYING AREA

The system was specially designed for spraying large items, typically door and window frames. Working area size: 3000 x 3000 mm. If necessary extendable by adding a 7th axis.

KAWASAKI ANTHROPOMORPHIC ROBOT

The Kawasaki high-performance anthropomorphic robot is perfectly integrated in the system, guaranteeing build quality and reliability. The robot has 6 axes, which can be extended up to 11 if necessary.

OPTIMISED SPRAY GUN HOLDER TOOL

The spray gun holder tool is designed for fast gun positioning that is always precise, allowing uniform application in the various areas of the frames to be coated.

PRECISION WORKPIECE SCANNING DEVICE

The frames are scanned using a reading bar, to adapt the movement of the spraying arm accordingly.

FLEXIBLE, USER-FRIENDLY SOFTWARE

The control software easily manages recipes and colour changes: defining distances, angles and spraying speeds is possible for any operator, using an intuitive program interface to save and retrieve the types of processing.



MAGNUM **THE SPAYING MACHINE WITH A HIGH PRODUCTION CAPACITY**

Magnum is a spaying machine with a high production capacity. Ensured quality of the product thanks to the optimal distribution of lacquer through the independent double reciprocators. The automatic change of the suction filters allows you to reduce maintenance operations without interrupting the production cycle.

Main benefits are:

- **High versatility.** The reciprocating movement of the first arm can be offset from the second in a measure that can be set and recalled from the recipe, obtaining an adjustment of the overlapping of the two arms.
- **The ability to equip with multiple lacquer reclaiming systems and carpet cleaning units in the machine** allows an instantaneous change of lacquers.
- **A dry filtering with a double layer of filtering material and totally removable filtering boxes from the two sides of the machine.** As an option, it is possible to have FILTER ON DEMAND, or a water filtration system can be integrated

VALTORTA BRAVOROBOT **THE PRECISION, RELIABILITY AND DELICACY OF THE HAND OF A CRAFTSMAN**

Valtorta bravorobot is a 5-Axes Cartesian robot designed for panel finishing and offers a high-quality painting experience thanks to its robotic movements which simulate manual work. Precision, reliability, and delicacy of the hand of a craftsman combined with the speed and continuity of an automatic spraying system. All enclosed in a pressurized cabin with a suction system designed for spraying optimization.

Main benefits are:

- **A clean and optimal working environment even in the case of critical applications** thanks to a pressurization system with suction inside the cabin guarantees.
- **The possibility to find the correct spraying cycle for each type of finishing** thanks to an accurate and versatile software control of the arm. It is possible to set the position and the inclination of the guns, also adapting them for painting edges.
- **Optimal spraying cycles in any kind of application** thanks to the ability to choose a water filtration system, dry, scrape on wet, or paper to guarantee.

LEDUP THE ROLLER COATER SYSTEM WITH UV LED POLYMERIZATION

LEDuP it's a roller coater system combined an UV LED system with more monochromatic hybrid UV sources at different wave-lengths, so to achieve a controlled multichromatic UV emission in a much wider spectrum, if compared with pure UV led irradiation. As a result, chemical physical performances are comparable to UV conventional curing, while the typical benefits of the pure UV led curing are maintained.

Main benefits are:

- **No smells and noise in the workplace** thanks to the absence of mercury and ozone in the lamps, avoiding disposal issues.
- **A 70% of energy saving than UV traditional system** with the cold polymerization system.
- **Wide range in the choice of final finishing effects or surface performance.** The appropriate selection of multiple wave-lengths in the led up system allows to achieve matt, high gloss, clear or pigmented finishing both in low and in high thickness applications.