# Paint iXen

## PaintiXen, the control software from Stäubli Robotics

This software package is designed to simplify use and programming of the applications of conventional or electrostatic powder and liquid paints.
It integrates perfectly in the Stäubli Robotics Studio software workshop (VAL3 Studio, Remote maintenance, PLC Studio, etc.).

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# New features of PaintiXen version 6.2.0

Software tool for the flow control. This control can take place either outside a trajectory or off production.

Circle function enables to generate curves and circles.

Swing function at entry and exit of trajectory : this new function allows to optimize parts quality and their finish particularly on cross layers.

Overspray function to manage entry and exit of trajectories : this new function, easy to implement, enables to significantly reduce paint consumption.

Plane function predefines and sets points parameters to easily generate trajectories to cover flat surfaces.

These last 3 functions can be associates to obtain optimum paint quality.
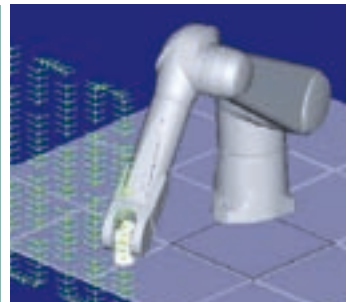
## Strengths in simplicity

**Interactive menus**
directly interfaced on the SP1 manual control pendant, they facilitate human interventions and do not require any efforts to memorize all the PaintiXen commands.

**Professional terminology**
helps painters handle the robot directly.

**Built in scenario and event programmability**
(Presets, time delay systems, combinations of inputs/outputs, etc.), PaintiXen makes a fast job of teaching and optimizing paint trajectories.

**The paint parameters**
Electrostatic charge, atomization air, jet width, and product pressure are piloted through plug&play analog inputs/outputs whose values are taken into account via the presets.

## Strengths in performance

**Communication with automatic line controllers**
Thanks to the VAL3 multitask system, communication with automatic line controllers is managed via predefined exchange functions that can be modified as required. For autonomous units, the automatic systems can be managed by the robot controller.

**Optimized programming**
Management of exports and imports of programs, trajectories and presets between robots via Ethernet/FTP or USB sticks shortens application development time and enables everyday optimization of existing programs.

**Line homogeneity**
This fast file exchange method provides homogeneous trajectories and parameterization on all the robots working on the same parts. Moreover, 3DStudio plays an active part in development of applications.

**Extended functions**
The tracking function is integrated in PaintiXen and management of external axes or associated rotary axes is possible as an option, with an interface on the SP1 manual control pendant.

## Strengths in safety

**Three user levels**
(Programmer/integrator/operator) ensure optimum status for each automated installation and avoid risks of drift due to programming errors. This also enables modulation of the training provided for painters and operators.

**Trajectory tests**
Can be automatic or manual, with activation or disablement of the gun.

**Maintenance programs**
(Drain position, paint equipment maintenance position or stopping position for booth cleaning) are included to facilitate equipment maintenance.

**The open architecture of the PaintiXen software**
Enables integrators and industrial customer companies to make changes using VAL3 language.

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