

 **MARVIN**

**SOFTWARE FOR
FAST PROGRAMMING**

 **EUCLID LABS**

WHAT IS MARVIN

Marvin is the most effective way to program industrial robots without writing code.

Marvin is an offline software designed for the rapid programming of industrial robots. It is intended for professionals in the manufacturing sector, such as welders, polishers, and specialized operators, who perform operations but do not have advanced knowledge of robotic programming.

With Marvin, it is possible to manually acquire a trajectory executed by an operator and generate a robot program in just a few minutes. The software allows recording individual points – ideal, for example, for welding – or continuous trajectories, including execution speed, as required for processes like painting.

Marvin generates programs compatible with all major robot brands, including ABB, Fanuc, Kuka,

Yaskawa Motoman, Epson, Kawasaki, Hyundai, OTC, Cloos, and many others.

The software also supports the management of external axes, which can be controlled through direct acquisition during learning, with asynchronous movement safely managed via PLC, or set and modified point by point within the software, assigning specific values to each position.

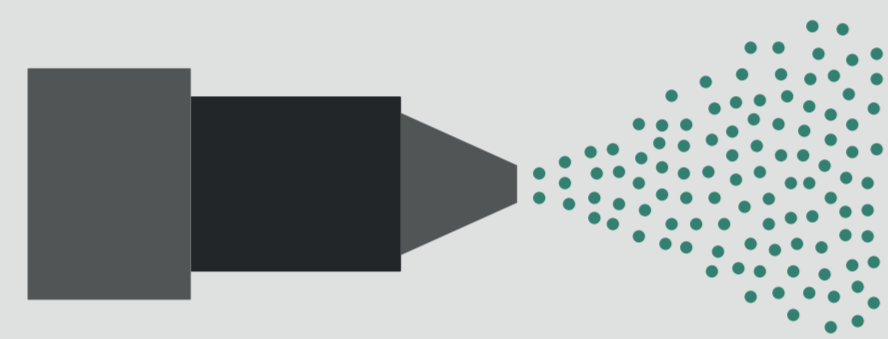
Marvin handles various external axes, including slides for robot movement and positioners such as lathes, tilting lathes, and turntable-mounted systems, allowing one station to be loaded or unloaded while the other is in operation, optimizing the production cycle.

MARVIN KEY BENEFITS

- **Reduced programming time:** Quickly automates most processes without requiring advanced programming skills.
- **Easy to install and use:** The intuitive interface allows even inexperienced operators to create complex programs in just a few steps.
- **Versatile and adaptable:** Operators can easily configure cell elements and define robot instructions according to specific application needs.
- **Efficiency and predictability:** Reduces machine downtime by recording the process path and generating the program offline.
- **100% hardware-independent:** Compatible with various recording tools and major robot brands.
- **Precision and reliability:** Thanks to calibration and collision control, it ensures accurate and safe paths, improving process quality.
- **Advanced external axis management:** The software manages slides for robot movement and positioners, including lathes, tilting lathes, and turntable-mounted systems.

WHAT CAN I DO WITH MARVIN

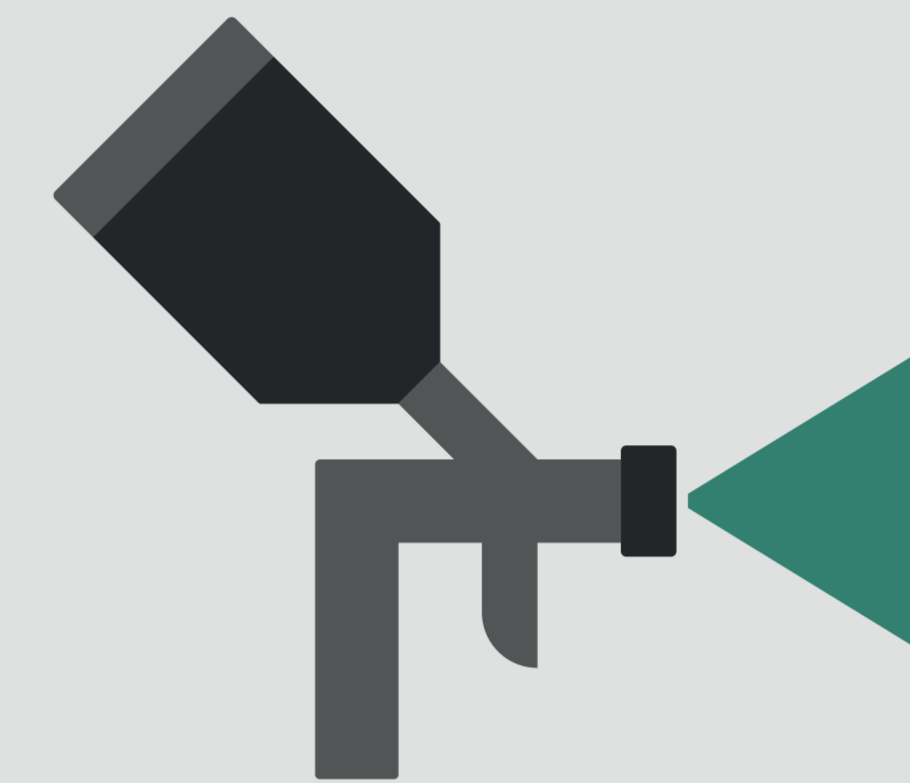
Marvin can be applied for several applications:



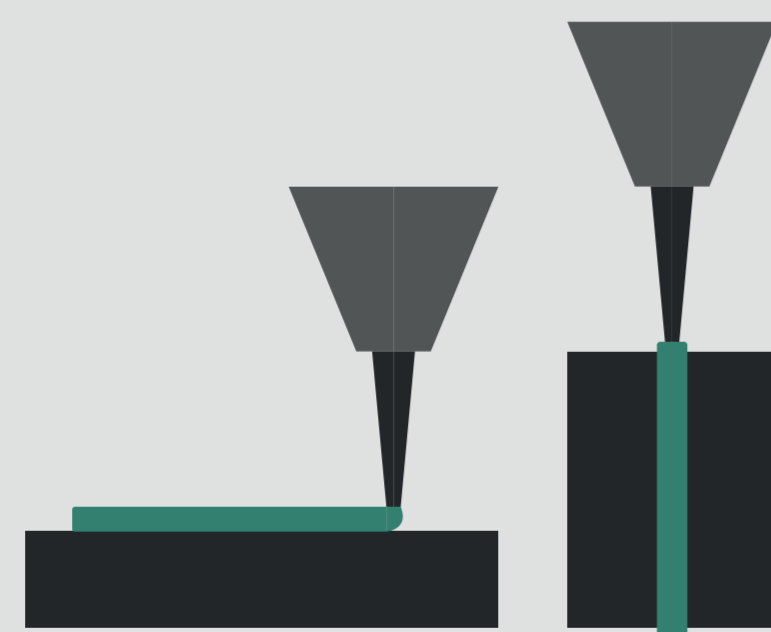
SANDBLASTING



WELDING



PAINTING



SEALING



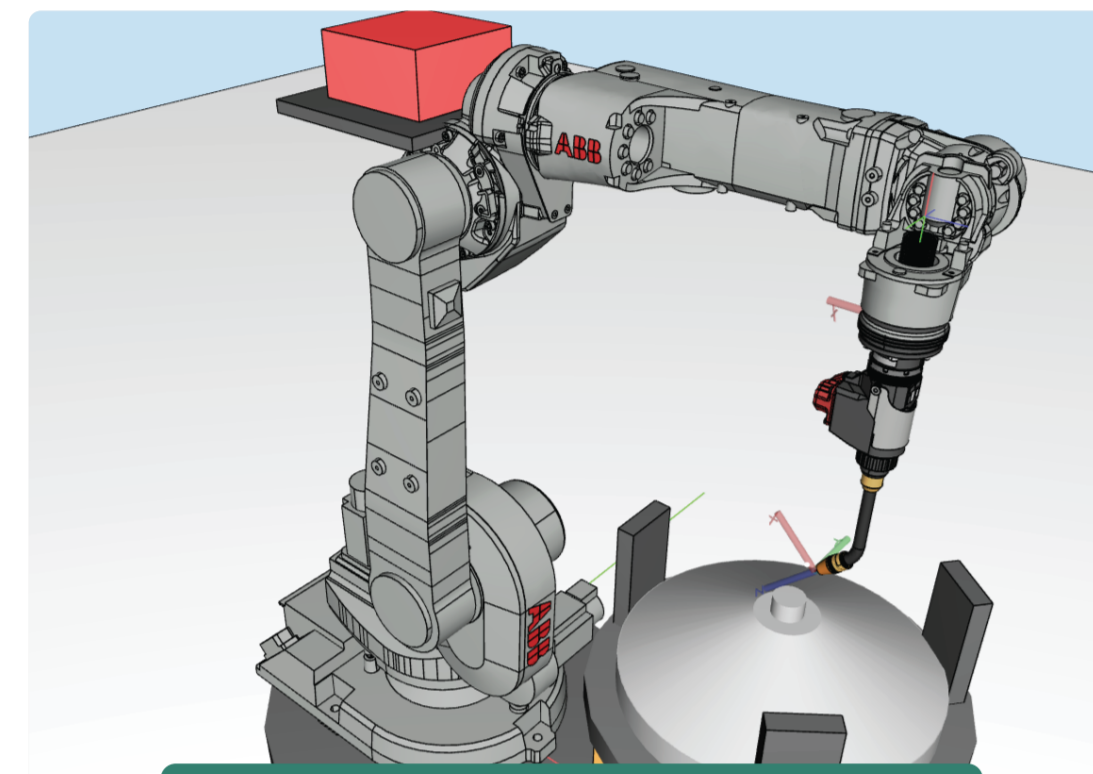
POLISHING



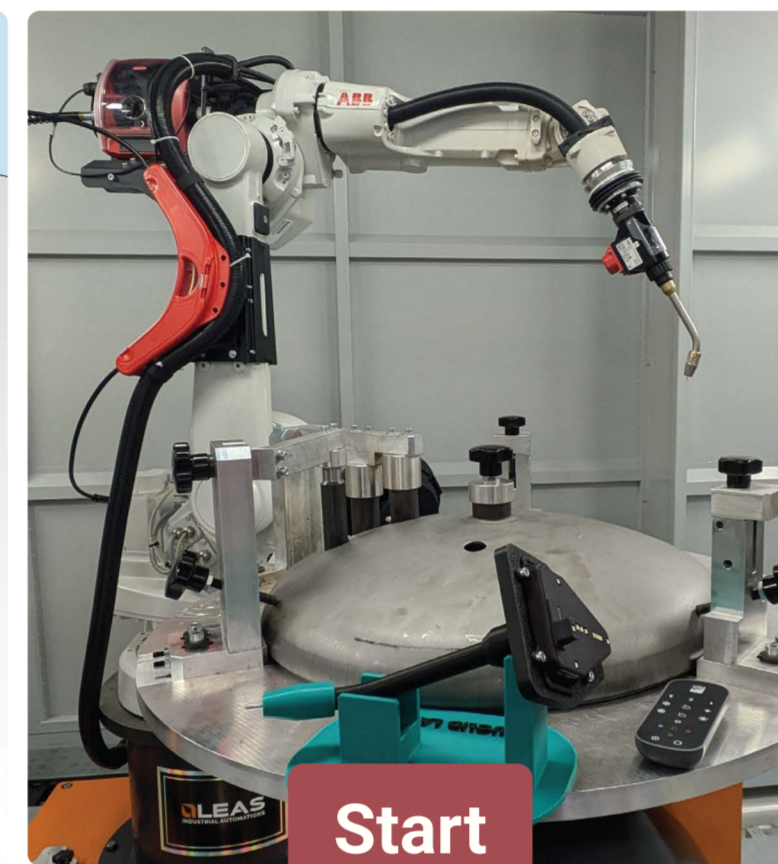
DEBURRING

HOW TO PROGRAM

STEP 1



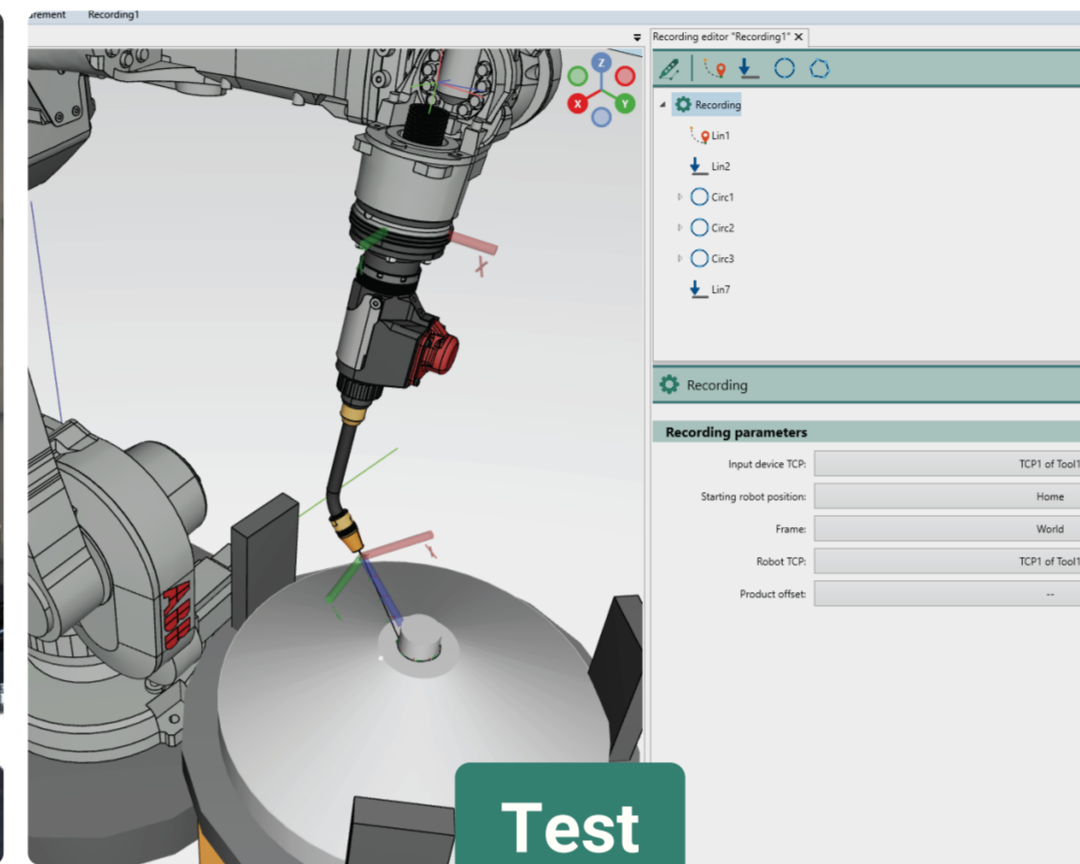
Workstation cell design



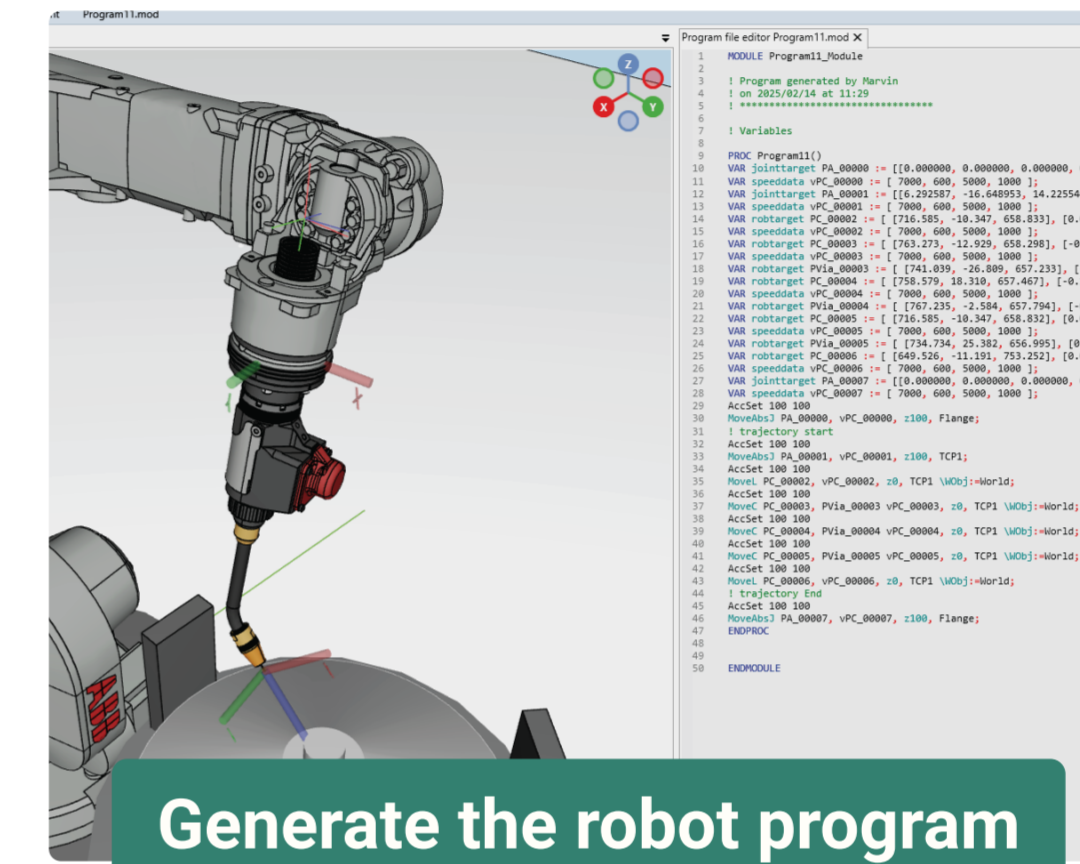
Start



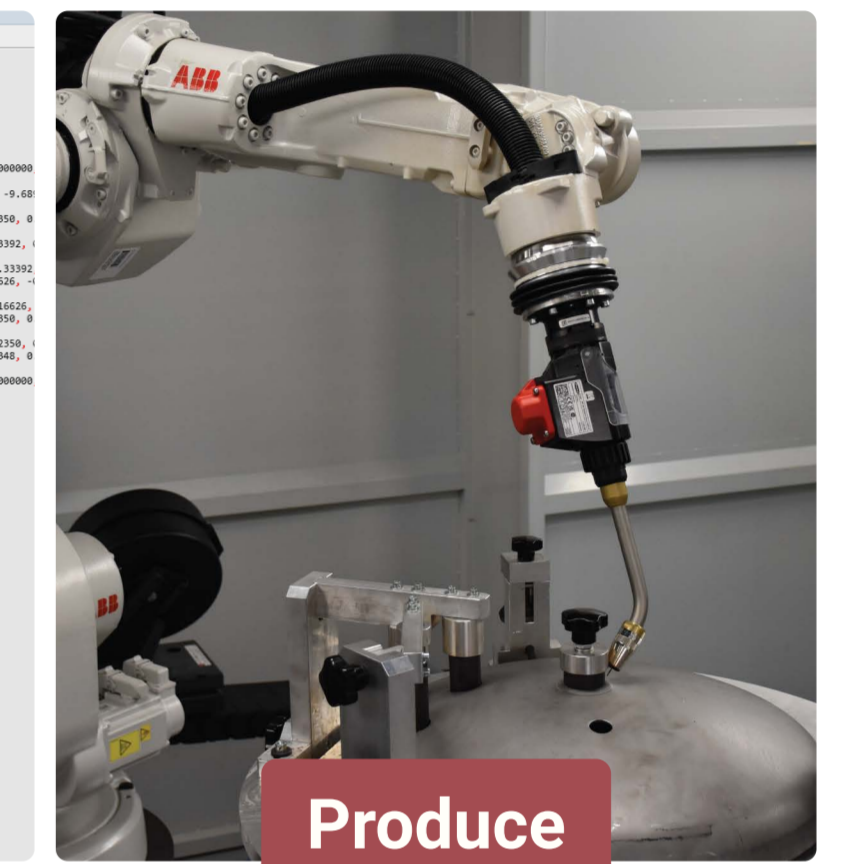
Record



Test



Generate the robot program



Produce

Prepare the work cell: The software interface allows you to recreate and simulate the entire work area, including the robot, tools, workbench, and external axes, with the option to activate collision control for all cell elements. In this phase, it is possible to define subprograms and routines, such as turning a welding torch on and off, as well as customizing specific commands for each client, adapting instructions to their application needs.

Record the process trajectory: Marvin captures the position of the recording device through a tracking system with a 3D replica of the working tool. The basic hardware package is modular and adaptable, with the possibility of installation on the machine or in a separate station, depending on the cell configuration and process type. The recording can be modified and previewed in the 3D environment, where the operator can interact with the trajectories, make adjustments, and fine-tune parameters directly from the interface.

Generate the robot program: Marvin transforms the points acquired from the 3D trajectory simulation into a robot program, ensuring that the path is reachable and free from collisions between the robot, tool, and surrounding environment. The program can be sent directly to the robot (if this function is supported) or manually uploaded via USB. Once transferred, it is a standard robot program, modifiable and verifiable directly from the teach pendant.



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