Ideal for a multitude of industrial robot applications

**Welding**
- Intuitive 1-click weld creation
- Support for touch sensing, multi-layer, stitch, seam tracking, weaving, and more
- Automatic collision avoidance and torch flaring into corners
- Automatic external axis control with coordinated motion

**Machining**
- Simulate the entire process including tool changes
- Integrate roughing and finishing operations
- Utilize external rotary interposition
- CAM integration and NC code import

**Cutting**
- Automatically chain edges for toolpath creation
- Compensate for tool width and control tool axis with tilt and flares
- Automatic error detection and avoidance
- CAM integration and NC code import

**Spraying**
- Simulate spray deposition thickness
- Refine spray pattern to maintain nozzle distance from the part
- Visibly show part coverage including overspray and underspray

**Additive**
- Simulate added material
- CAM integration and Slicer g-code import

**Simulation**
- Replicate and test complex mechanical system processes from start to finish
- Complete proof-of-concept on new factory floor designs prior to commitment
- Utilize statistics for process analysis and cycle times
- Conduct reach study analyses
- Create ultra-realistic simulation videos to aid in decision-making processes
- Easily package into 3D PDF files and virtual reality

Complex robot programming made simple
Changing the way industrial robots are programmed

Contact us today for a free, customized demonstration.
Simplify toolpath programming
Intuitive, user-friendly software interface enables non-experts to confidently program complex robot applications. Either through import from CAD or CAM software or natively in OCTOPUZ.

Automatically detect and avoid errors
Quickly resolve potential toolpath errors including singularities, joint limits, reach limits, and collisions.

Validate robotic processes through simulation
Ensure the robot will perform tasks as expected through start-to-finish simulation.

Program and post multi-robot cells
Program, simulate, and generate code for multiple robots in a single cell.

Single platform for all robot brands
Extensive component library with support for many robot brands in any configuration.

Support for all robot manufacturing processes
Support for welding, machining, cutting, material handling, additive, and everything in between.

Reduce production downtime
Reprogram new robot functions in hours rather than days, without ever taking the robot offline.

Maximize robot ROI
Enable the robot to complete short-run production as well as long term tasks, increasing its return on investment.

Why OCTOPUZ
OCTOPUZ removes the traditional limitations of robot automation by enabling robot programming to be completed virtually, on a computer, while the robots are still online and working for you.

What is OCTOPUZ
OCTOPUZ is intelligent offline robot programming software that enables path-sensitive, complex robot applications to be programmed without disruption to the manufacturing process.

How it works
In OCTOPUZ, users create detailed virtual simulations of their real-world robot cells, complete with machinery and manufacturing components, in minutes. Within this virtual cell, OCTOPUZ uses built-in machine logic to automatically identify the optimal toolpath trajectory and program the required code for a multitude of industrial tasks. The Code is then accurately converted to the robot brand’s unique language for use in the real world.