

# 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



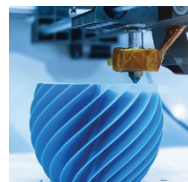
## Machining

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



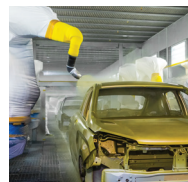
## Cutting

- 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



## Additive

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



## Spraying

- Simulate and analyze spray deposition thickness
- Refine spray pattern to maintain nozzle distance from the part
- Visibly show part coverage including over spray and under spray

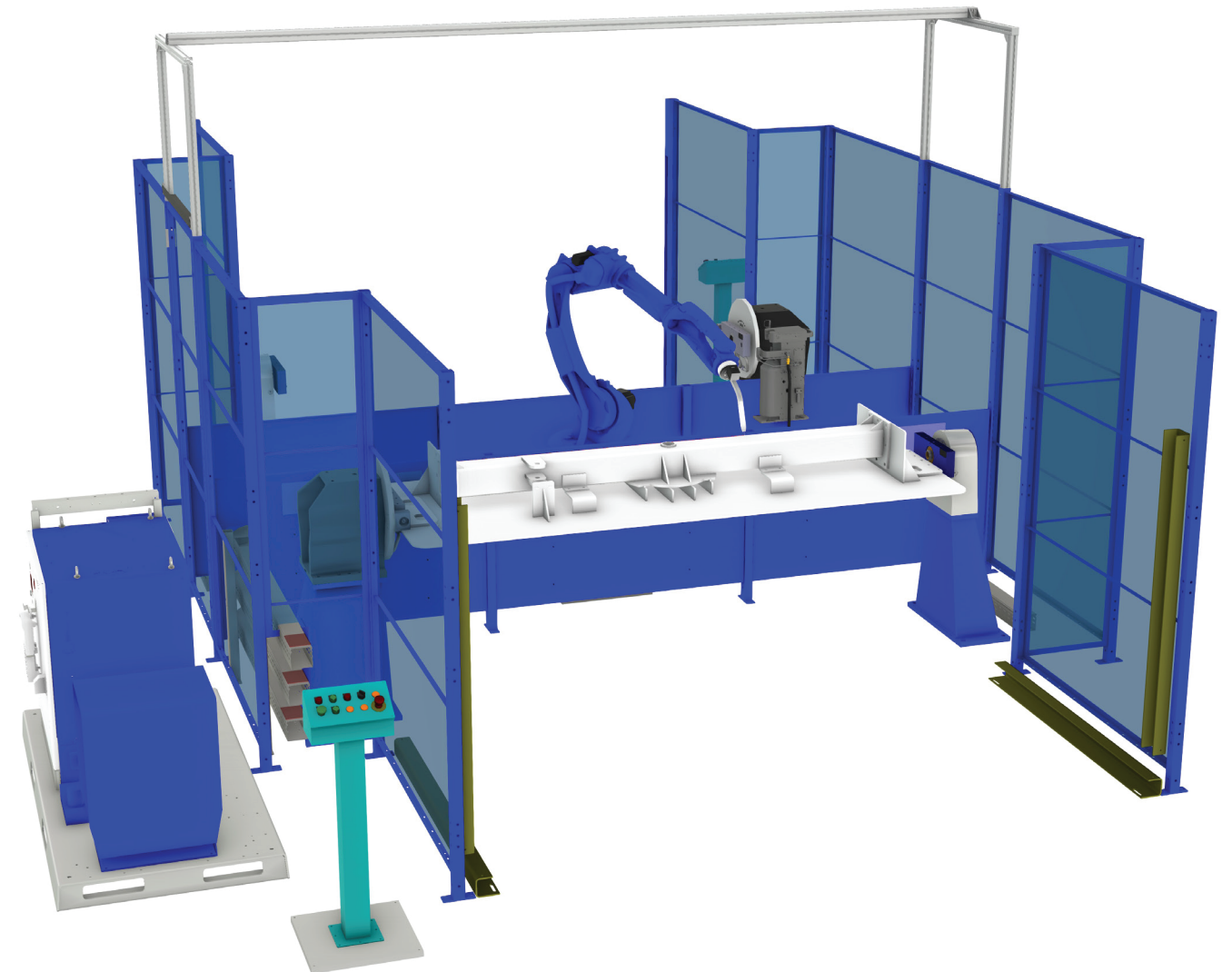


## Simulation

- 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



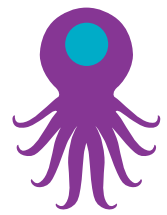
## Offline Robot Programming Software



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Contact us today for a free, customized demonstration.

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



# OCTOPUZ®

## Offline Robot Programming Software

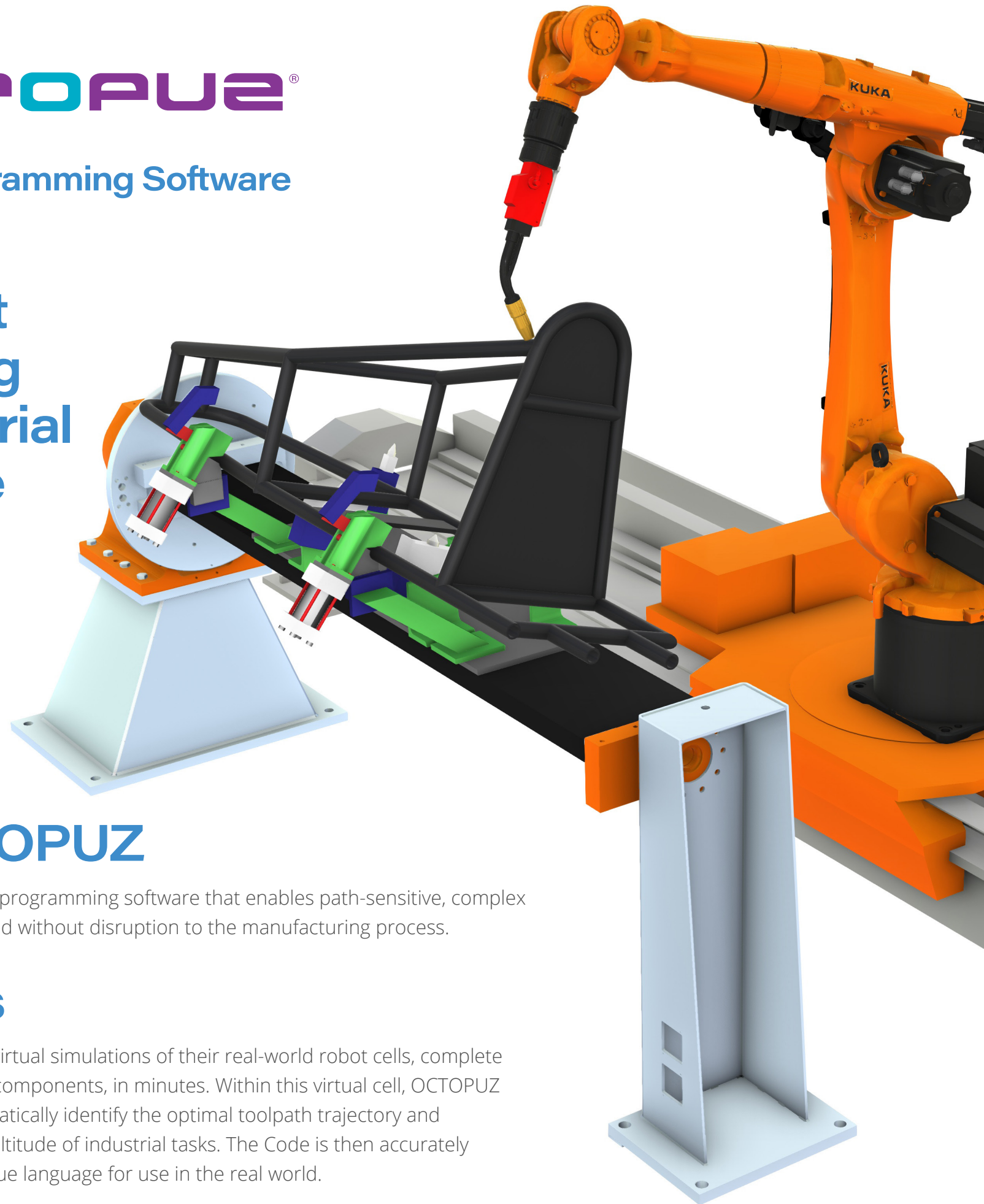
# Offline Robot Programming keeps industrial robots online and working for you

## 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.

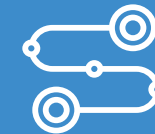
## How it works

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.



## 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.



### 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.