



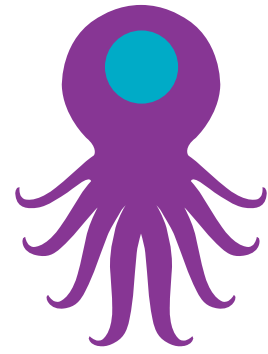
OCTOPUZ®

Robot Programming
& Simulation Software

Like its namesake, OCTOPUZ® has the reach and versatility to take interface simplicity and core power to a new level for optimal efficiency.

www.OCTOPUZ.com





8 REASONS

EXTEND YOUR REACH WITH OCTOPUZ

Multiple robots? No problem!

Program and simulate multiple robots, simultaneously, with support for many robot brands in any configuration.

Most robot brands supported

15+ brands supported with a regularly updated library.

Application versatility

Full software versatility allows for unlimited uses.

Extensive component library

Create custom applications and scripts to govern the logic of individual components or the entire simulation.

Complex kinematics systems

Not limited to 6-axis manipulators, OCTOPUZ can simulate 3-axis scara robots up to 7-axis manipulators, external axes (linear rails, rotaries), conveyors, feeders and more.

Simple simulation building

Drag, drop and snap components together from the library to make complex systems with pre-made logic.

Full customization

Your special needs are no problem. The OCTOPUZ API allows us to customize for you.

CAM Interface

Program paths onto parts using your favourite CAM system and verify/create the motion for your robot system.

WELDING

- Autonomous, intelligent, intuitive weld creation.
- Path creation and modification are possible with just a few clicks.
- Automatically create touch sensing searches and corrections to compensate for part inaccuracies.
- Fully implement and simulate touch-sensing, multi-layer, stitching and weave.
- Automatically finds the start/end of welds and applies torch flares into corners.
- Can simultaneously calculate up to three external linear axes.
- External rotary axes are automatically calculated to keep the weld wire vertical, horizontal for certain faces, or at a downhill angle.

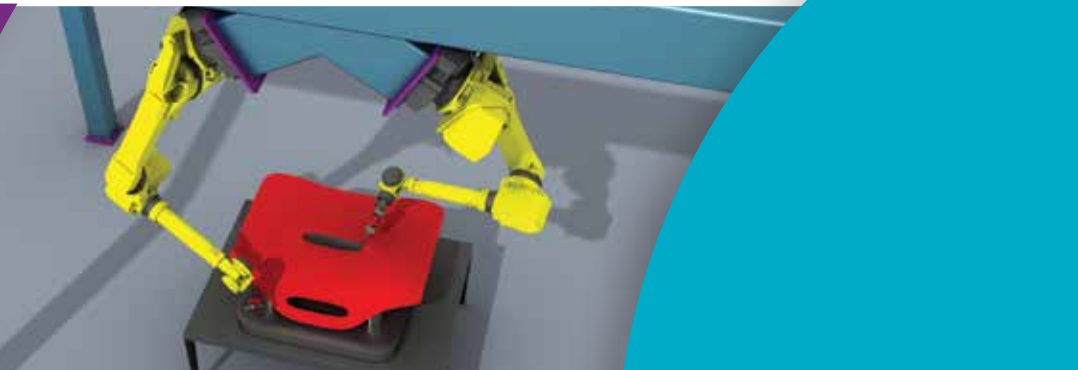
Arc welding
MIG
TIG
Oxy-acetylene
Laser welding
GMAW
GTAW
Resistance welding



EDGE FOLLOWING

- Tilt all positions forward, backward or sideways.
- Increase or decrease the number of path positions or spacing points.
- Compensate for tool width.
- Control cutting depths or stand offs for end of arm tooling.
- NC import.
- Tool manager.

Waterjet
Trimming
Deburring
Laser cutting
Plasma cutting



MATERIAL REMOVAL

- Configure multiple angle settings.
- Set constant steps across a surface.
- Create remote tool center points for carrying parts to stationary tooling.
- Utilize high-speed toolpaths to increase accuracy and speed.
- Integrate roughing and finishing operations.
- Simulate the full process including changing tooling or entire heads.
- Easily generate complex drilling paths.
- NC import.
- Tool manager.

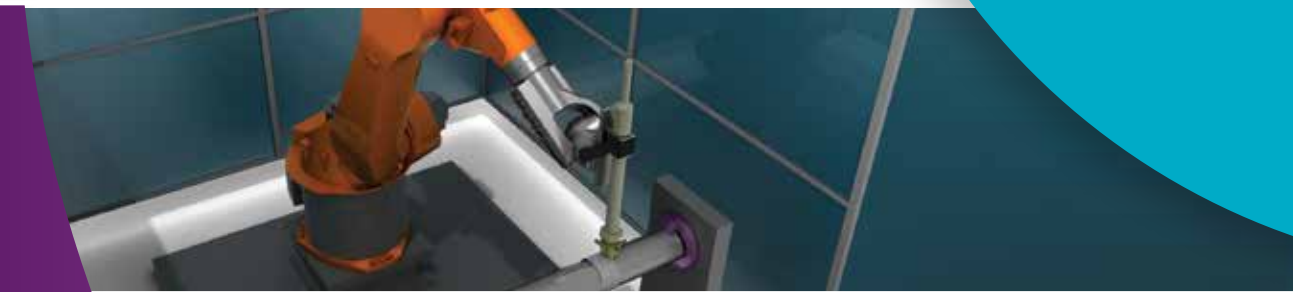
2D machining
3D multi-surface machining
Remote tool center point
Simulated tool/head changes



ADDITIVE

- Refine spray pattern to maintain nozzle distance from part.
- Simulate and analyze material thickness and quality during simulation.
- Detect overspray and underspray within simulation mode.
- Capable of visibly adding material during simulation.

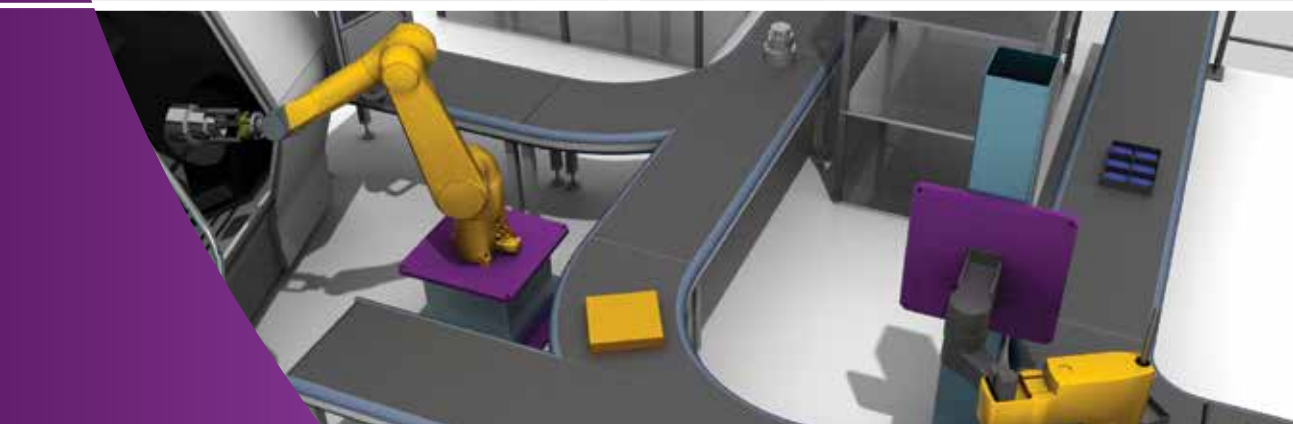
Dispensing
Composite lay-up
Spraying
Welding
Painting
Laser cladding



SIMULATION

- Replicate and test complex mechanical systems.
- Control the simulation using an actual PLC or OPC logic simulation.
- Optimize part-handling operations.
- Analyze component usage to easily find bottlenecks before the cell is ever built.
- Visualize the shop floor process from start to finish.
- Setup I/O communication between components.

Pick and place
Machine tending
PLC
Shop floor layout
Multiple robots
Component communication



PRODUCT LINE

FEATURES

CAM Integration

NC Import
Tool Manager
CAM System Interface for SolidCAM and Mastercam
Importing CAM Paths/Tooling/Settings

Customization

Full Python/COM API
Custom Kinematic Systems and Parametric Components
Open Post Processors – Robot Code Creation

Programming

Path Solving, Issue Avoidance and Indication
Connect/Control Digital I/O
One-Click External Axis Calculations
Manual Point-to-Point Teaching
Welding Add-on
Spray Deposition/Thickness
Import Robot Code and Backups

General Software

Importing CAD
Geometry Manipulation/Creation
Automatic Updater
Robot Catalogue
Multiple Robot Simulation
Export as 3D PDF
Generate Reports

Flexibility. Functionality. Fluidity.

The features in OCTOPUZ give you all the tools you need for your path-sensitive robotic applications, allowing you to safely and efficiently program your robots without disruption to your manufacturing process.



OCTOPUZ®



OCTOPUZ Inc.

Canada and USA

+1 (226) 894-1253

+1 (877) 456-4519

info@octopuz.com

Europe and Germany

+49 (0) 9175 / 90833-0

infoEU@octopuz.com

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