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
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 weaving.
- Automatically finds the start/stop 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.

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.

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.

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.

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.
- Setup I/O communication between components.

EXTEND YOUR REACH WITH OCTOPUZ

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.

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

Waterjet
Tonnung
Deburring
Laser cutting
Plasma cutting

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

Dispensing
Composite lay-up
Spraying
Welding
Painting
Laser cladding

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

**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

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