



ROBOTICS ARC WELDING

INDUSTRIAL EQUIPMENT



Maximize Production Rates

DELMIA's Robotics Arc Welding solution for the Industrial Equipment Industry enables companies to reduce robot programming lead-time, from virtual manufacturing to actual production. DELMIA's Industrial Equipment Robotics Arc Welding solution leverages the unique 3D environment to improve collaboration between weld engineering, tooling design and robot programming to increase manufacturing agility, quality and flexibility in the most competitive environments. By automatically generating accurate downloadable robot programs, the real robots remain in production. This keeps efficiency at the forefront of your manufacturing processes and mitigates production risk.



Generate an arc welding tool path based on the geometric design of the seam to be welded.



Automatically update weld trajectories as the design changes.

INDUSTRY CHALLENGES

- How to decrease product development costs as product complexity increases?
- How to efficiently reduce robot programming lead-time?
- How to reduce time-to-market while maintaining quality and flexibility in a competitive environment?
- How to enable engineering, integrators, tooling designers and robot programmers to collaborate across an extended enterprise?
- How to analyze the impact of tooling design changes on robotic programs?

SOLUTION HIGHLIGHTS

- Geometry-based arc weld path generation and modification
- Easy update of robot trajectories to accommodate design changes
- Workpiece positioning optimization
- Support for controller-specific weld profiles
- Seam search path generation
- Standardization and re-use of production best practices for new projects

SOLUTION VALUES

- Maximize your manufacturing agility to improve cycle-time accuracy
- Native collaboration between engineering and manufacturing to react quickly to design changes
- Mitigate production risk with increased robot utilization rates to maximize production
- Minimize production costs by off-line programming the robots in production
- Achieve sustained quality and repeatability

USERS

Robot Programmers



Delivering Best-in-Class Products

S CATIA

3S SOLIDWORKS 3D Design

35 SIMULIA

Realistic Simulation

Digital Manufacturing and Production

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Collaborative Innovation

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3D Communication

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