

# DELMIA V6

## Robotics Spot Welding

### Generate and Manage Robot Spot Welding Programs

*DELMIA Robotics Spot Welding delivers a suite of programming tools to create, optimize and validate robotic spot welding programs that are ready to be downloaded to robots.*

DELMIA Robotics Spot Welding (RSW) is a comprehensive V6 automotive body-in-white robotics programming solution that generates and manages robot spot welding programs. Advanced capabilities for robot path planning, weld gun selection and weld analysis help the robot programmer to react quickly to new or changing product designs. When product designs change, impacting the location or orientation of the spot weld, DELMIA Robotics Spot Welding automatically updates the robot program by adjusting the robot's trajectories.

### Choose the right robot and weld gun to perform spot welding

DELMIA Robotics Spot Welding provides analysis tools such as weld gun search, weld analysis, manual weld gun

accessibility check and section analysis to help users pick the right spot welding robot and weld gun.

### Spot weld profiles

Spot welding motion parameters can be defined through the spot weld profile. Spot weld profiles include approach, pressure start, weld, pressure end and departure motion parameters. These parameters assist the robot programmer in creating accurate robotic spot welding programs and provide essential details for translating the program when downloading via DELMIA Robotics Offline Programming (ROP).



## Sophisticated robot programming tools for spot welding

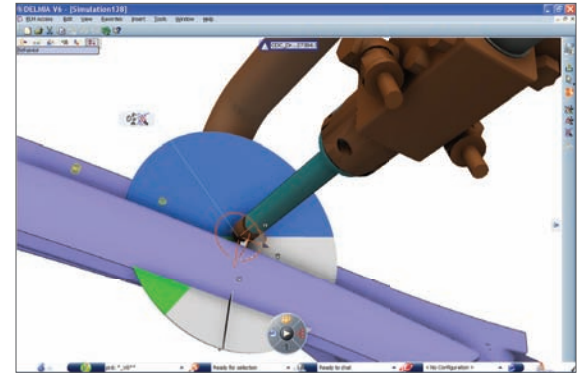
With DELMIA Robotics Spot Welding, robot programmers can select a group of welds and automatically generate a robot task that includes the spot operations for each weld. The user can then further teach the robot to optimize the task by adding approach, departure and via points.

## Automatic spot welding program updates after design changes

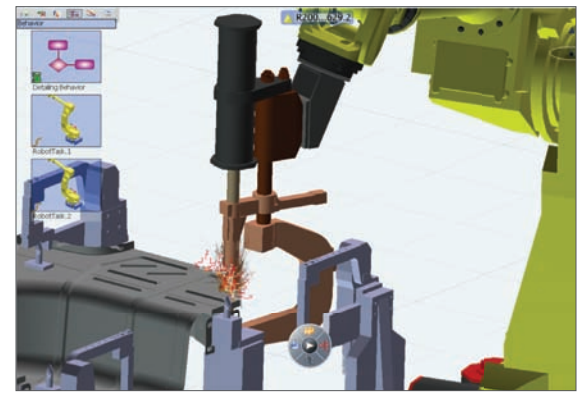
When design engineers make changes to a product's design, the robot programmer can determine if the design changes impact the existing robot program and, if necessary, automatically update the robot tasks and trajectories to accommodate the changes.

## Product Highlights

- Tools to choose the right robot and weld gun for spot welding and save the analysis specifications and results
- Fastener position optimization during the process planning stage
- Spot welding profile to generate accurate robotic spot welding programs
- Generate downloadable spot welding robot programs
- Determine the impact of design changes on the robot programs and update them
- Comprehensive support of fixed Tool Center Point (TCP) robotic workcells



DELMIA Robotics Spot Welding is an automotive body-in-white solution that generates and manages robot spot welding programs.



Generate robot tasks and spot operations automatically by selecting a group of welds.

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