



# DELMIA Robotics for the Auto Supply Chain

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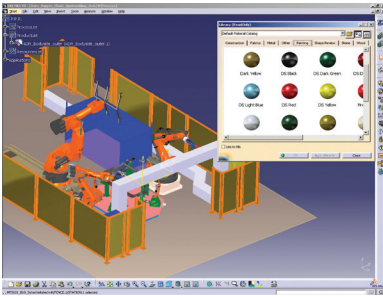
Automotive suppliers face many challenges within their global competitive landscapes. They are challenged to achieve optimum utilization of their equipment, respond faster with more accurate and competitive bids, and collaborate closer with their OEM customers. With the risks clearly identified, it is critical that suppliers implement solutions that give them the advantage needed to retain existing customers and win new business.

Service organizations and tooling suppliers play a vital role in today's marketplace, designing flexible workcells and programming robots for leading OEMs. They use a variety of tools to accomplish these tasks but often spend weeks manually programming robots on the shop floor to later realize that resources need to be repositioned,

adjusted or reprogrammed once they are commissioned causing significant production delays and increased program costs.

Dassault Systèmes' DELMIA delivers comprehensive solutions for automotive suppliers in the small to medium marketplace for arc and spot applications, as well as robot programming. These solutions enable automotive suppliers to improve their profitability and meet their OEM's needs by managing the complexity of the manufacturing planning details with 3D digital verification and validation.





## DELMIA Spot Workcell Builder

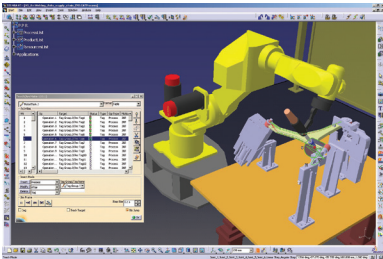
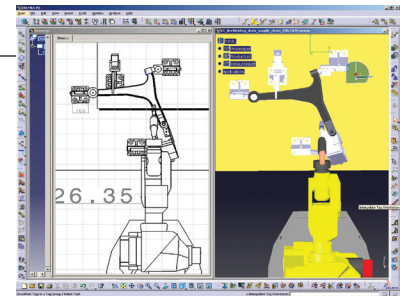
### Validate Robot Path Planning, Weld Gun Selection and Workcells

A dedicated set of offline programming, calibration and post processing tools allows users to accurately program robotic systems offline for specific spot welding applications. Advanced capabilities for robot path planning, weld gun selection and weld analysis help the robot programmer to react quickly to new or changing product design. Features include geometric modeling, kinematics modeling and interference detection, offline programming, multi-robot simulation and process optimization.

## DELMIA Arc Workcell Builder

### Create and Validate Offline Robot Workcells and Weld Programs

This solution provides a virtual programming environment to teach and sequence robots and associated tooling. The advanced 3D environment enables users to virtually build workcells to identify problematic areas, confirm robot placement and verify if equipment needs to be repositioned or adjusted before being commissioned on the shop floor. Features include geometric modeling, kinematics modeling and interference detection for flexible manufacturing resources, geometry-centric arc seam definition and multi-robot offline programming and simulation environments.



## DELMIA Arc Robot Programmer

### Simulation and Offline Programming

Offers a virtual programming environment to teach and sequence robots and associated tooling, with an easy to learn and use graphical programming interface. Multiple variables are combined when defining the collision-free robotic welding path including the joint configuration, robot setup and workcell layout. Features include geometry-centric arc seam definition and multi-robot offline programming and simulation environments.



## About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 115,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes applications provide a 3D vision of the entire lifecycle of products from conception to maintenance to recycling. The Dassault Systèmes portfolio consists of SolidWorks for 3D mechanical design - CATIA for designing the virtual product - DELMIA for virtual production - SIMULIA for virtual testing - ENOVIA for global collaborative lifecycle management, and 3DVIA for online 3D lifelike experiences.

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