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Abstract

Dassault Systèmes is a world leader in 3D and PLM solutions. Delmia PLM Express provides role-based PLM solutions for companies of all sizes. PLM Express solutions are organized by five manufacturing roles to help businesses transform to meet market demands:

- **Resource Planning:** Provides a 3D environment to create and assess workcell and plant layouts and create geometric models with kinematics.
- **Robotics:** Delivers the capability to study robot capabilities such as robot reach and motion characteristics as well as programming interfaces to allow the user to program the robot offline (OLP).
- **Ergonomics:** Allows the Engineer to create Human Task Simulations to optimize human performance as well as perform risk factor analysis to minimize risk and maximize worker comfort and safety.
- **Assembly Planning:** Offers the capability to plan and validate Assembly processes in 3D and capture those processes to aid in shop floor implementation.
- **Controls:** Provides an interactive 3D environment in which to program the behavior of shop floor devices so that they can then be used to validate the process program running in the Programmable Logic Controller (PLC).