

DELmia® Digital Manufacturing applications drive manufacturing innovation and efficiency by planning, simulating, and modeling global production processes. DELmia allows manufacturers to virtually experience their entire factory production from the impact of design to determining how to meet global demand. These simulation activities allow manufacturers to better address and shift processes so as to quickly respond to the competition, or to take advantage of new market opportunities. DELmia Digital Manufacturing capabilities extend visualization beyond the product into manufacturing—providing the ability to simulate manufacturing processes before the physical plant or production line even exists. By proving out plant level considerations such as manufacturing approaches and material flow in the early stages of product development, the product concept can be analyzed to determine the best approach to make the product. DELmia Digital Manufacturing applications deliver expertise within Ergonomics, Machining, Process Planning & Simulation, Manufacturing Management, Manufacturing Resources and Robotics.

KEY BENEFITS

- Plan, with comprehensive 3D process and resource planning tools to create and optimize build-to-order and lean production manufacturing systems.
- Simulate, with tools to virtually define and optimize manufacturing assets concurrently with manufacturing planning.
- Operate an accurate virtual production system to track real-time production activities, perform schedule changes, launch new programs and introduce model changeovers, and schedule maintenance operations

ERGONOMICS

Ergonomics allows users to assess equipment design with intent to maximize productivity by reducing operator fatigue and discomfort, while helping to ensure compliance and verifying assembly across multiple platforms.

PROCESS PLANNING

Process Planning helps create and optimize build-to-order and lean production manufacturing systems.

ROBOTICS

Robotics enables robot programmers to simulate and validate robot tasks. Programmers are able to perform reachability studies, interlock analysis and offline robot teaching to deliver optimized robotics programs to the shop floor.

COLLABORATIVE MANUFACTURING

Common Understanding of All Manufacturing Stakeholders

FABRICATION

Fabrication helps NC programmers to plan, detail, simulate and optimize their machining activities.