

# ROBOTICS VIRTUAL COMMISSIONING

Datasheet



**SIMULATE AND VALIDATE  
INDUSTRIAL ROBOT BEHAVIOR  
USING NATIVE ROBOT  
CONTROLLER SOFTWARE:**

**DELMIA ROBOTICS VIRTUAL  
COMMISSIONING ENABLES  
ACCURATE, EFFICIENT SIMULATION  
IN A VIRTUAL ENVIRONMENT.**

DELMIA Robotics Virtual Commissioning (RVC) allows virtual 3D simulation and validation of native language robot programs using the robot vendor's Virtual Robot Controller (VRC) software, which implements the Realistic Robot Simulation II (RRS-II) interface standard. The virtual robot's cycle time and trajectory can be simulated with nearly 100 percent accuracy compared to the physical robot. For ultimate realism and accuracy, DELMIA Robotics Virtual Commissioning supports hardware-in-the-loop cell simulation, in which actual hardware components such as robot controllers are integrated into the simulation with industry-standard communication interfaces (RRS-II).

## VIRTUAL VALIDATION OF NATIVE ROBOT PROGRAMS

Robot programmers and controls engineers can safely validate native robot programs and I/O connections in a 3D virtual environment. Users can validate the robot program's nominal behavior and test what-if scenarios to minimize downtime of production equipment.

## VIRTUAL TEACH PENDANT

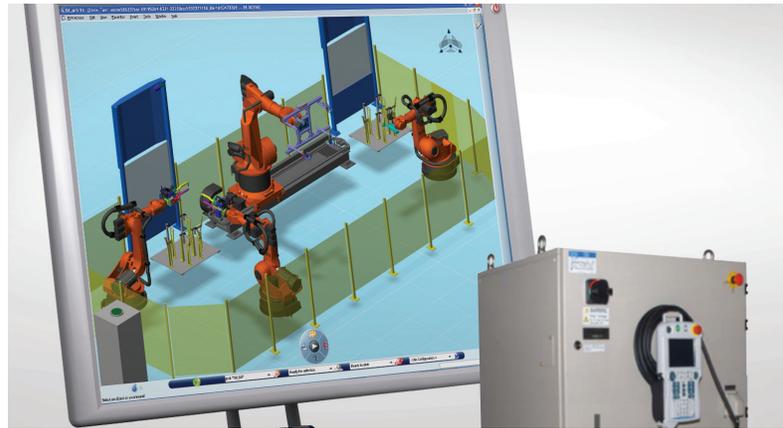
Expert users can program and simulate a robot using a virtual teach pendant (when provided by the robot manufacturer) that mimics the teach pendant used on the physical robot. This allows robot programmers that are familiar with the physical hardware to quickly program robot-specific instructions.

## OPERATOR TRAINING

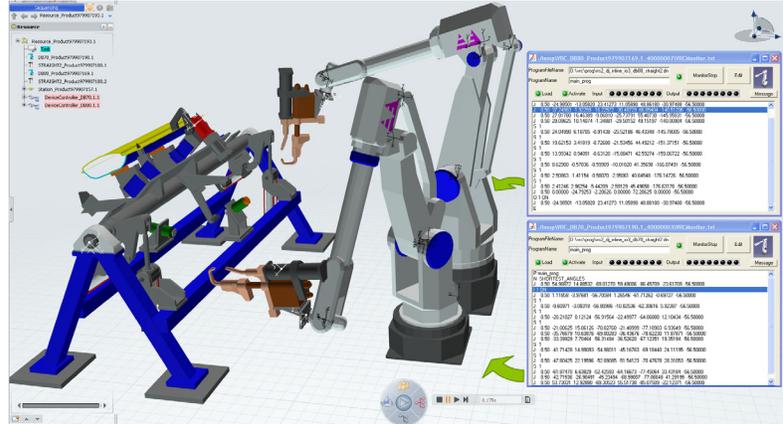
Shop floor personnel can be trained to interact with workcell equipment, such as control panels and safety equipment. They can also learn what to expect from controls logic in circumstances such as cell start-up, emergency stops and re-starts. This training is conducted in the safety of the V6 virtual environment.

## PRODUCT HIGHLIGHTS

- Simulate native language robot programs
- Simulate V6 robot tasks
- RRS Connection in Live Simulation
- Filter RRS Messages



Simulate and validate native-language robot programs



Test what-if scenarios to minimize downtime of production equipment

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