

MotoSim EG

Motoman Simulator Enhanced Graphics

Key Benefits

- Accurate simulation of robotic systems
- Off-line programming of complex cells
- Model system layout and design for easier installation

Minimum Requirements

Windows® 10 (64 bit) OR Windows 7 Service Pack 1 (32 bit / 64 bit)

Intel® Core™ Duo or more multi processor

2 GB RAM or more

256M video card

2 GB hard drive

Compatibility

YRC1000 controller

YRC1000micro controller

FS100 controller

DX200 controller

DX100 controller

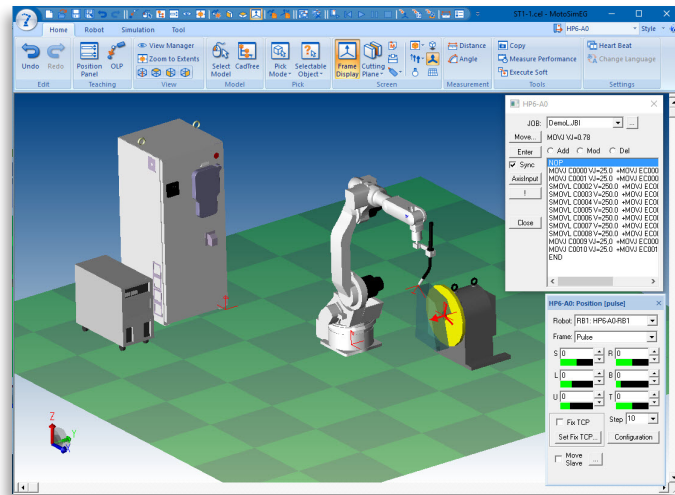
NX100 controller

NXC100 controller

XRC controller

MRC controller

ERC controller



- Comprehensive software package provides accurate 3D simulation of robot cells.
- Can be used to optimize robot and equipment placement, and to perform cycle calculations, collision detection and reach analysis.
- Users can import CAD files in .hmf, .hsf or .3ds formats.
- Users can view and play back cell simulations with MotoSim EG Viewer, a free HTML output file built upon the same cutting-edge technology used by the MotoSim EG graphical interface package. Users can share simulations with customers or coworkers.
- The standard 3D graphics engine allows markups and comments to be added to the robot simulation.
- Users can accurately measure distances and create permanent measurement lines.
- Programming time is reduced, thus increasing uptime of the production equipment. New parts can be programmed off-line before production begins, and existing robot programs can be modified to increase efficiency and reduce cycle time – without sacrificing production schedules.
- High accuracy allows programs to be tested on the PC instead of on the robot system, reducing robot downtime.
- Enables user to make changes to improve robot performance.
- Detailed path calculation function plots robot's trajectory to simplify programming.
- Creates process angles, allowing user to create programs that maintain the robot's tool orientation in relation to an uneven surface, such as a sharply angled part, or gradually changing shapes, such as propellers or motorcycle gas tanks.

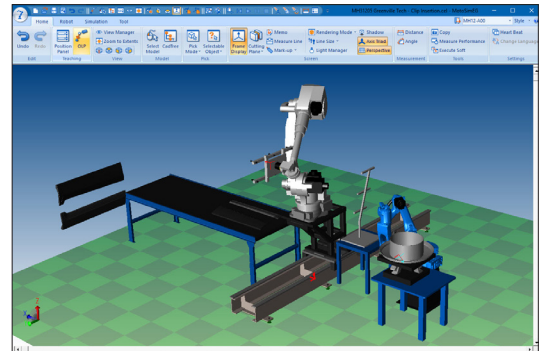
Off-Line Programming

- Robot paths, speeds and other program data – such as tool center points, user frames, and I/O monitors – can be defined on the PC.
- User can move the virtual robot, enter the data to create a robot program, and download it to the robot controller.
- When Yaskawa Motoman's MotoCal® software and optional filters are used, programs created in MotoSim EG can be down-loaded to the robot controller with minimal or no touch-up.

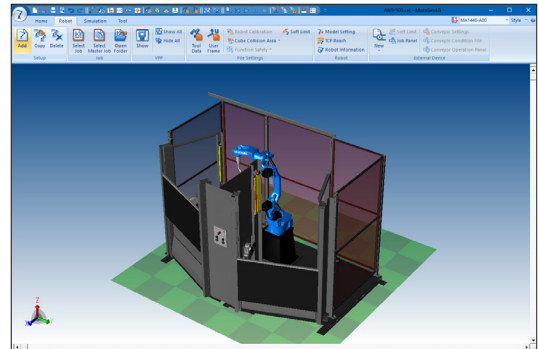
Capabilities:

- Collision detection
- Robot placement and path optimization
- External axis control and coordination
- Paint application-specific functions
- Conveyor tracking programming
- Same easy-to-use INFORM language instructions as the robot controller
- Minimize fixturing errors
- Reduce robot installation time
- User-definable view
- Cycle time and reach analysis

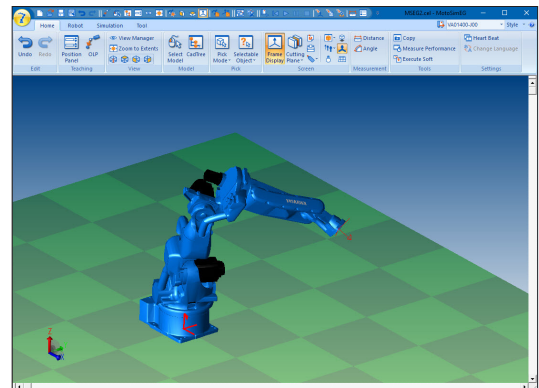
NOTE: Sample system cells are available on the installation CD, including positioners and accessory parts.



Complex cell layout and design



Standard system



New manipulator testing

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