YASKAWA

POWERFUL SIMULATION SOFTWARE

MotoSim EG-VRC

ver. 2018

OFFLINE PROGRAMMING | 3D SIMULATION | VIRTUAL ROBOT CONTROL

KEY BENEFITS

Offline programming of complex systems reduces robot downtime

Highly accurate simulation of advanced control capabilities between Motoman® robots and our industry-leading positioners

SYSTEM REQUIREMENTS

| Recommended	Minimum
Windows® 10	Windows® 7
Intel Core i7 CPU	Intel Core i5 CPU
16 GB RAM	8 GB RAM
3D Pro graphics card	3D graphics card
5 GB of free hard drive space	

CONTROLLERS

☑ YRC1000   ☑ YRC1000micro   ☑ DX200

☑ DX100   ☑ FS100   ☑ NX100

- Comprehensive software package that provides accurate 3D simulation of robot cells.

- Performs collision detection, reach analysis and cycle time calculations.

- Supports multiple process applications including arc and spot welding, cutting, handling, painting and sealing.

- This virtual robot controller displays the actual programming pendant interface; virtual programming steps are identical to those used in the real world.

- Supports standard INFORM programming language and completely simulates the controller software in the PC environment, including system configuration functions, condition file editing and FSU configuration.

- Easy-to-create 3D PDF and AVI files to view and share cell layouts or program operation. Viewing angle and start/stop playback of the robot program can be modified within the 3D PDF file.

- Offline programming and testing reduces programming time and increases production uptime:
  - Program new parts prior to production
  - Modify existing robot programs to increase efficiency and reduce cycle time
  - Detailed path calculation function plots robot's trajectory to simplify program verification
  - Programs created in MotoSim EG-VRC can be downloaded to the robot controller

- Offline cell design can minimize fixturing errors and reduce robot installation time:
  - Add markups and comments
  - Accurately measure distances
  - Create permanent measurement lines
  - Directly import 3D CAD files into MotoSim EG-VRC which eliminates need to convert files prior to import

- Utilize Yaskawa Motoman's model library or your own. Frequently used models can be dragged/dropped into a cell.
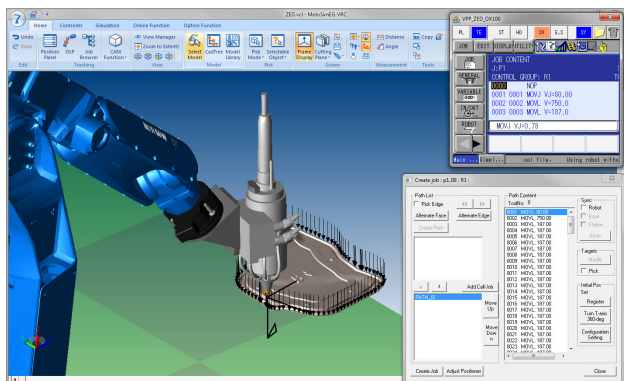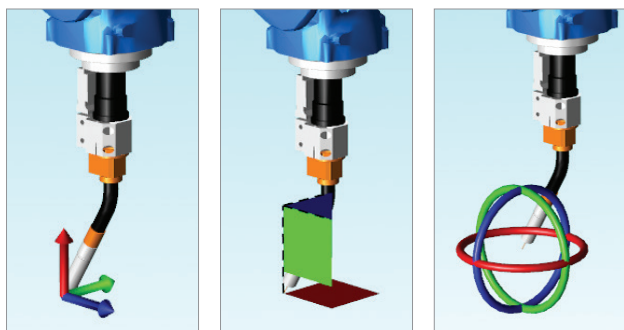
MotoSim EG-VRC
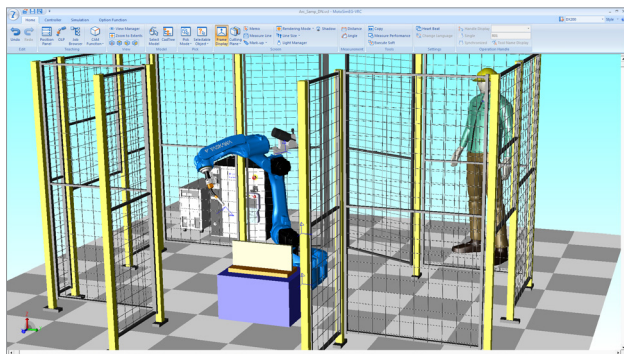
CELL LAYOUT AND DESIGN

DOWNLOAD 3D PDF:
http://www.motoman.com/motosim-3d/
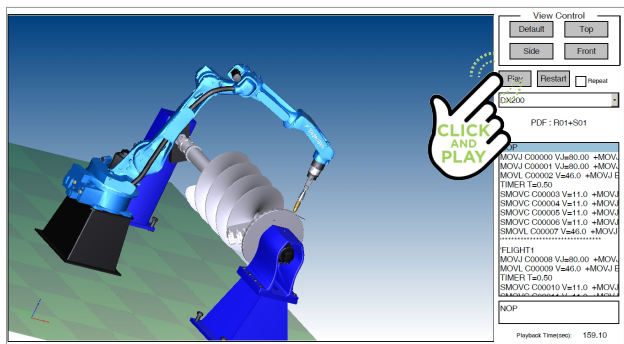
PATH GENERATION FROM 3D CAD MODEL (CAM)

TCP DRAG FUNCTION

CAPABILITIES

- Supports multi-robot and multi-controller simulation

- Robot(s) and external axes control, including independent/coordinated motion and twin synchronous motion functions

- 3D CAD file formats supported: IGES, STEP, Inventor, ProE/Creo, Solidworks, Catia V5, SAT, Parasolid, HSF, HMF, STL, 3DS, RWX, DXF and PLY

- Supports standard and optional controller functions such as Macro Command and Relative Job

- Component-level collision detection

- User-definable views

- Automatic robot path generation based on 3D CAD model information. Customizable to include application-specific instructions. Motion type, velocity, number of positions generated and work angle are adjustable. Generate numerous program positions in seconds!

- Modify robot position and manipulate each robot axis by dragging with the mouse. User can also position the robot in Cartesian mode.

- Accurately align models to one another:
  - Process tool or end effector to robot
  - Fixture to positioner
  - Part to fixture

YASKAWA

motoman.com

Yaskawa America, Inc. | Motoman Robotics Division
100 Automation Way | Miamisburg, OH 45342
Tel: 937.847.6200 | Fax: 937.847.6277