

MOTOSim EG-VRC

Powerful Simulation Software

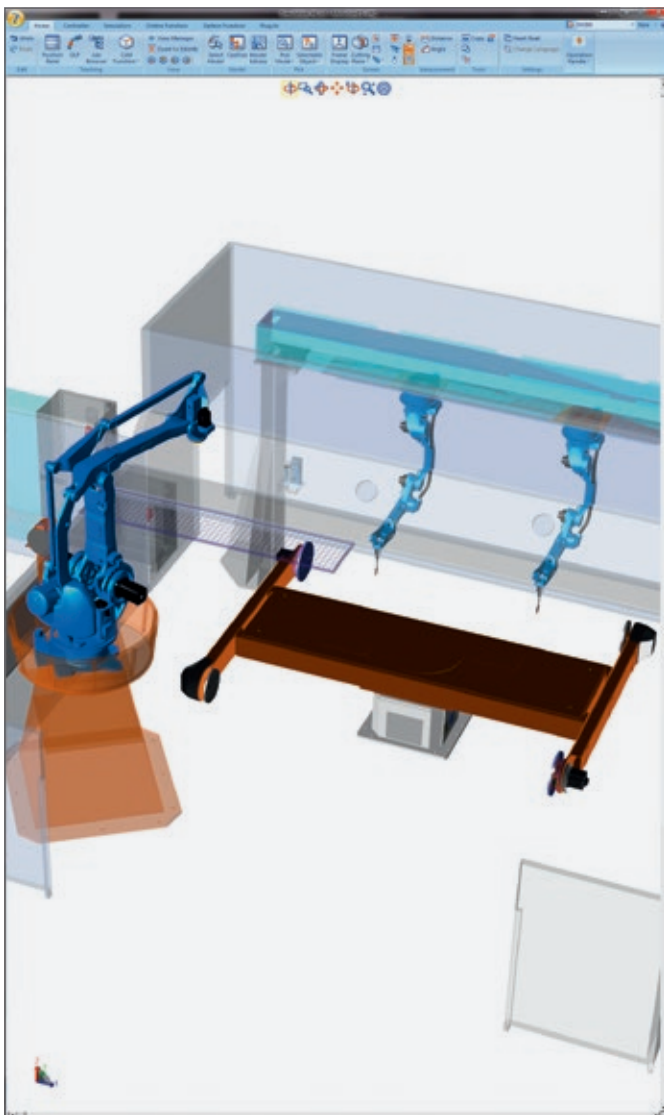
Offline Programming, 3D Simulation,
Virtual Robot Control

KEY BENEFITS

- Offline programming of complex systems
- Minimisation of setup, non-productive and commissioning times
- Advanced control functions and simulation of the YASKAWA product family, including robots, gantries, tracks and positioners

FURTHER FEATURES

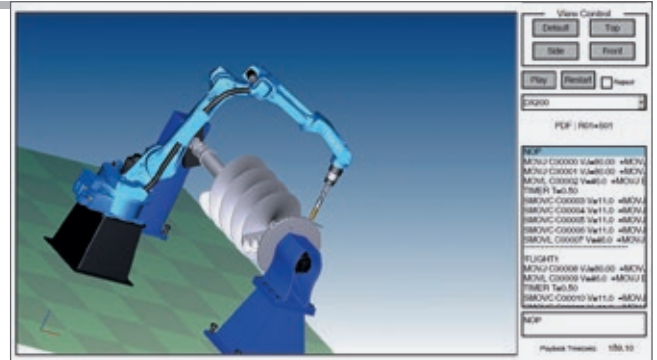
- Comprehensive tool of the digital factory with simulation functions, such as collision detection, reach analysis and cycle time calculation
- Supports numerous process applications, such as arc welding, spot welding, cutting, handling, painting
- Visualisation of the real teach pendant from generation NX100 onwards
- Supports the INFORM programming language
- Complete simulation of the robot software in the PC environment
- Creation of system configurations equivalent to the real controller
- Offline programs can be transferred to the real controller without the need for compilation
- Optimisation of existing robot programs without interrupting production
- Visualisation and calculation of the real robot paths
- Various measurement and analytical tools
- Simple integration of user models into the available YASKAWA model library
- Supports multi-robot and multi-controller simulations
- Control of robots and external axes including synchronous robot motion
- Supported import formats: IGES, STEP, Inventor, ProE/Creo, Solidworks, Catia V5, SAT, Parasolid, HSF, HMF, STL, 3DS, RWX, DXF, WRML and PLY



Important Functions:

3D-PDF

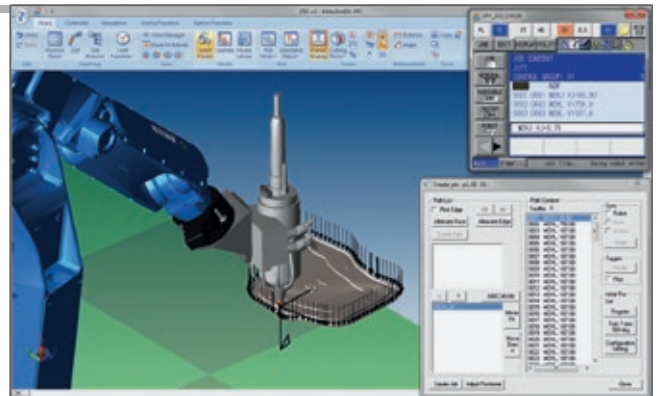
- Simple exporting of simulation result as 3D PDF or AVI file
- Visualisation of the robot layout



3D view file (please open with Firefox or InternetExplorer)
<http://www.motoman.com/motomedia/MotoSimFile3D.pdf>

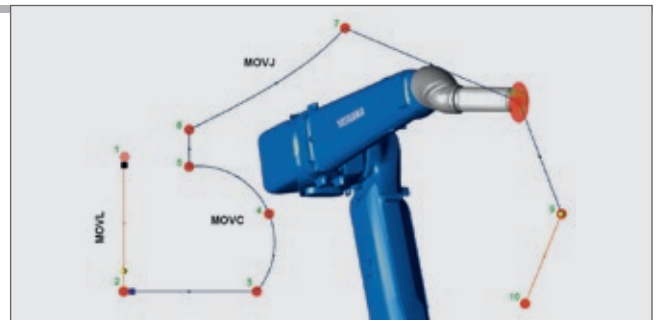
CAD/CAM

- Automatic path generation on the basis of component surfaces or edges
- Setting of user-defined application parameters
- Generation of complete robot programs
- Jobs can be adapted to changed component positions with minimal effort



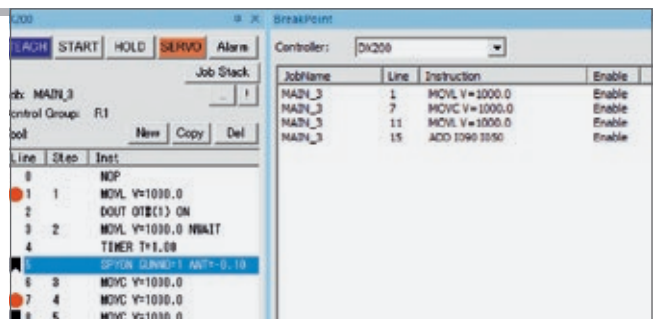
Visual Path

- Visualisation of the theoretical robot motion (without approximate positioning)
- Points can be shifted or added easily
- Visualisation of different instructions (e.g. TIMER, DOUT, Anticipation, etc.)



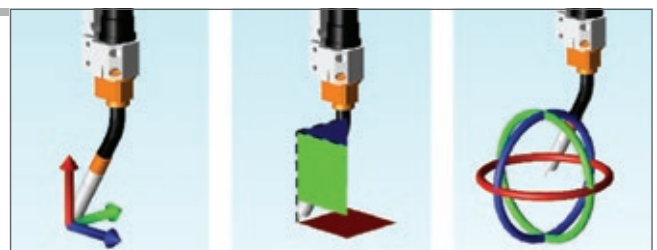
Debug Function

- Creation of breakpoints (points at which the program is stopped)
- Creation of bookmarks (highlighting of important positions in programs)
- Debug monitor (important variables and inputs/outputs can be monitored)



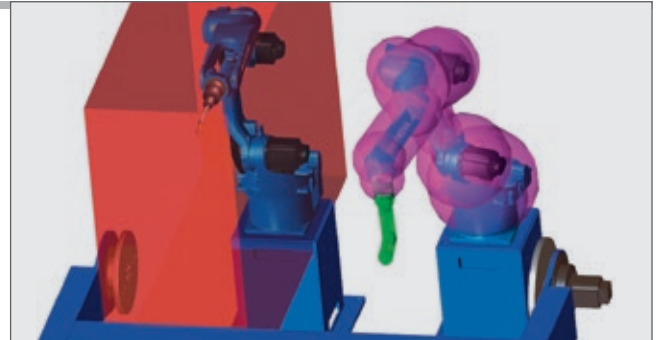
Handle Display

- Modification of the robot position or movement of individual robot axes by dragging with the mouse



Functional Safety Unit

- Visualisation of the monitored areas
- Optical check of the FSU settings/parameters



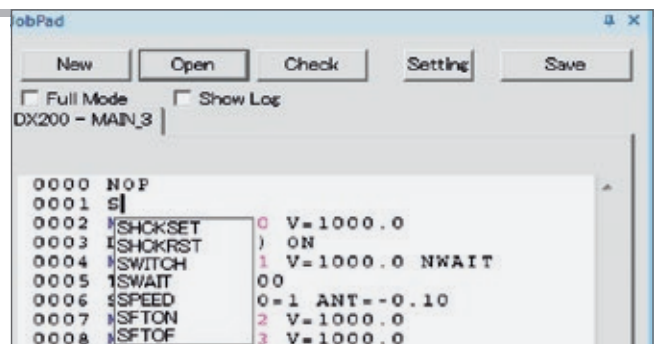
Search Function (wire search)

- Creation/pre-programming of the search programs
- Complete support of all instructions required for the search function



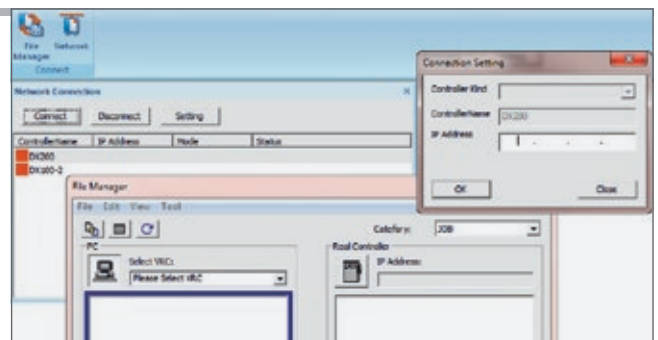
JobPad

- Writing of jobs with the aid of an optimised text editor
- Syntax check
- Drop-down menu with all enabled instructions



Network Function

- Ethernet connection to real controller
- Visualisation of robot motions in real time
- Data exchange with integrated file manager (jobs, parameters, etc.)



System Requirements (Min.)

- Microsoft Windows 11 or Microsoft Windows 10 (64bit)
- Intel Core i7 or higher
- 4 GB RAM
- NVIDIA graphics card
- 10 GB free space on the hard drive

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All drawing dimensions in mm.
Technical data may be subject to change without previous notice.
Please request detailed drawings at robotics@yaskawa.eu.

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