YASKAWA

MOTOSim EG-VRC

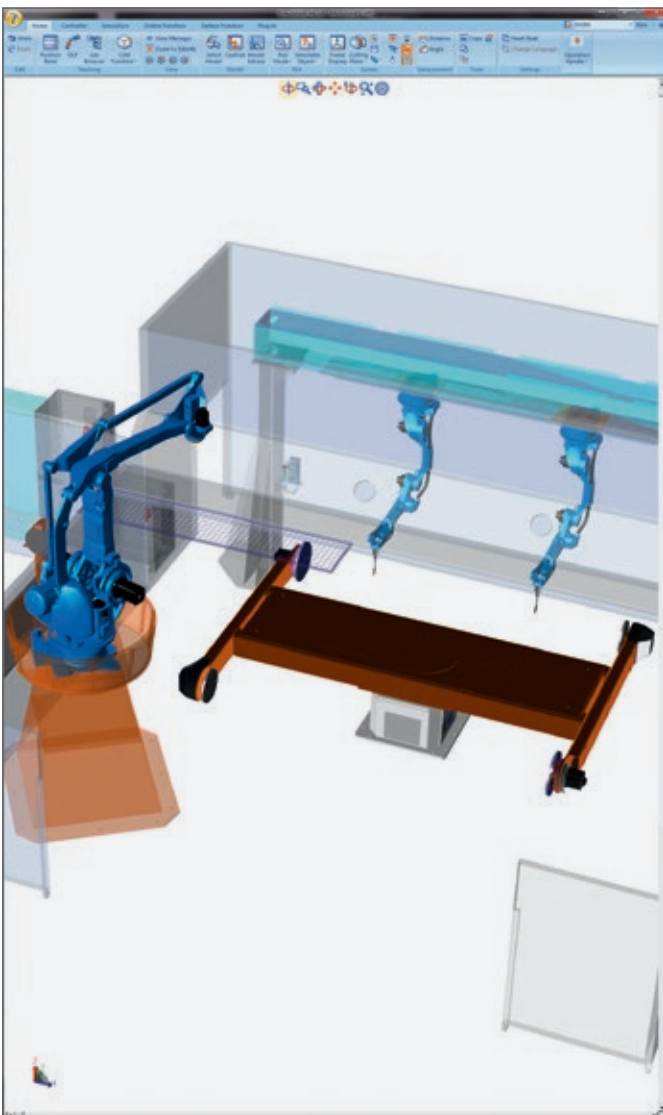## Powerful Simulation Software

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
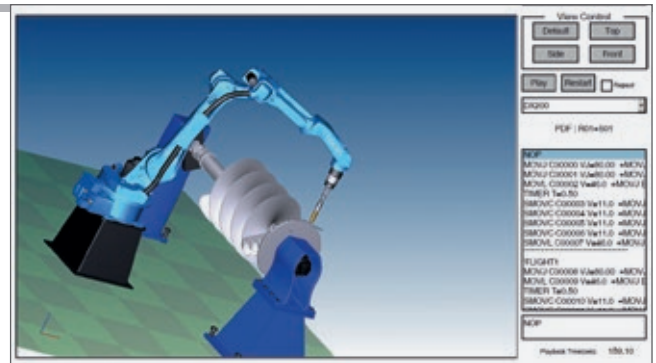
FURTHER FEATURES

- 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

| Controlled by NX100 | Controlled by DX100 | Controlled by DX200 | Controlled by FS100 | Controlled by YRC1000 | Controlled by YRC1000 micro |

www.yaskawa.eu

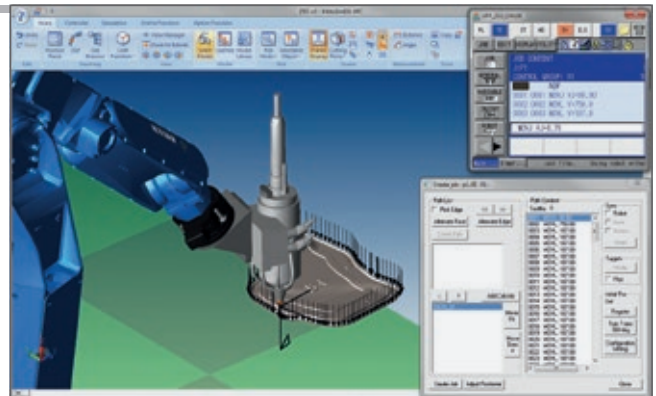# Important Functions:

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)
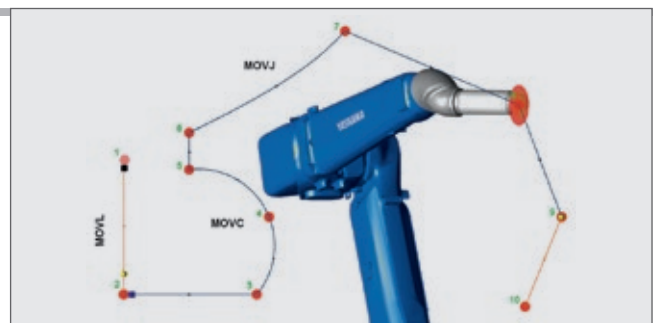*http://www.motoman.com/motomedia/MotoSimFile3D.pdf*

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
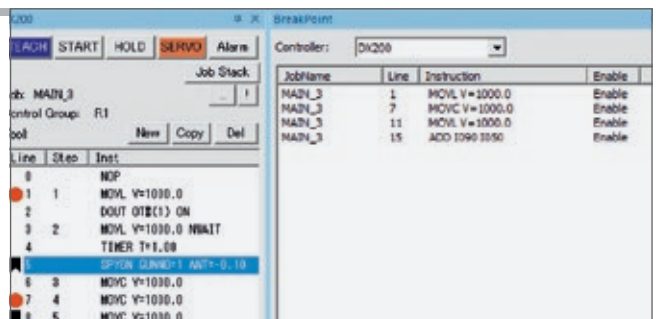

Visual Path

- 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.)
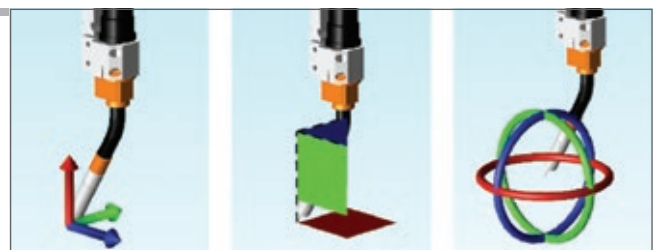

Debug Function

- 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)
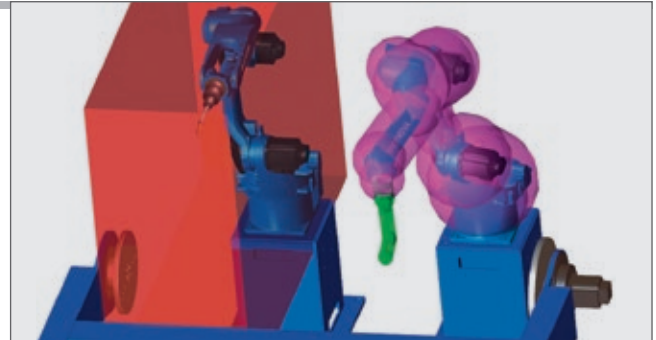

Handle Display

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

Functional Safety Unit

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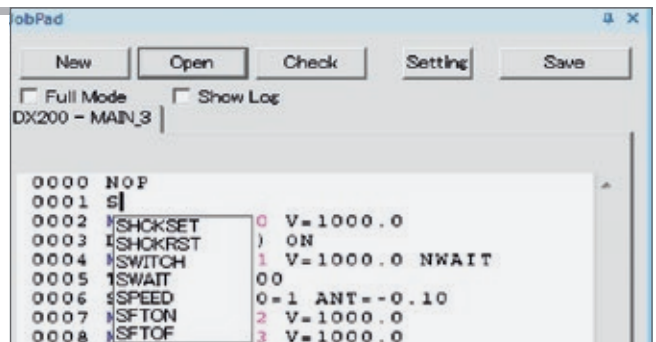- Optical check of the FSU settings/parameters

Search Function (wire search)

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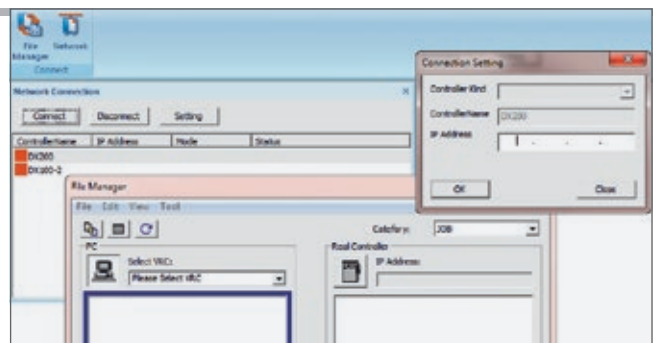- Complete support of all instructions required for the search function

MOVJ VJ=10.00 SRCH RIN#(1)=ON

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

YASKAWA GROUP

AT   Yaskawa Austria
Schwechat/Wien
+43(0)1-707-9324-15

CZ   Yaskawa Czech s.r.o.
Rudná u Prahy +420-257-941-718

DK   Yaskawa Danmark
Løsning +45 7022 2477

ES   Yaskawa Ibérica, S.L.
Viladecans/Barcelona +34-93-6303478

FR   Yaskawa France SARL
Le Bignon +33-2-40131919

FI   Yaskawa Finland Oy
Turku +358-(0)-403000600

GB   Yaskawa UK Ltd.
Newton Aycliffe +44-330-678-1990

IT   Yaskawa Italia s.r.l.
Torino +39-011-9005833

IL   Yaskawa Europe Technology Ltd.
Rosh Ha'ayin +972-3-9004114

LVA Yaskawa Latvia
Riga +371-2-2467570

NL   Yaskawa Benelux B.V.
Eindhoven +31-40-2895500

PL   Yaskawa Polska Sp. z o.o.
Wrocław +48-71-7928670

SE   Yaskawa Nordic AB
Torsås +46-480-417-800

SI   Yaskawa Slovenia
Ribnica +386-1-8372-410

TR   Yaskawa Turkey Elektrik
Ticaret Ltd. Sti.
İstanbul +90-216-5273450

ZA   Yaskawa Southern Africa (PTY) Ltd
Johannesburg +27-11-6083182

DISTRIBUTORS

BG   ATRI ROBOTICS Ltd.
Stara Zagora +359 899 625 160

Kammarton Bulgaria Ltd.
Sofia +359-02-926-6060

EE   RKR Seadmed OÜ
Tallinn/Estonia +372-68-35-235

GR   Gizelis Robotics
Schimatari Viotias +30-2262057199

HU   Flexman Robotics Kft
Budapest +36 1 259 0981

LT   Profibus UAB
Panevezys +370-45-518575

NO   Skala Robotech AS
Lierstranda +47-32240600

PT   ROBOPLAN Lda
Aveiro +351-234 943 900

RO   NORMANDIA S.R.L.
Brașov +40 268 549 236

Yaskawa Headquarters

Yaskawa Europe GmbH
Robotics Division
Yaskawastraße 1
85391 Allershausen, Germany
Tel. +49 (0) 8166/90-0
Fax +49 (0) 8166/90-103

robotics@yaskawa.eu
www.yaskawa.eu

Yaskawa Academy
and sales office Frankfurt

Yaskawa Europe GmbH
Philipp-Reis-Straße 6
65795 Hattersheim am Main, Germany
Tel. +49 (0) 6196/77725-0
Fax +49 (0) 6196/77725-39

YASKAWA