ROBOGUIDE

ROBOGUIDE IS A ROBOT SYSTEM ANIMATION TOOL SPECIFICALLY DEVELOPED FOR THE PRODUCTION AND MAINTENANCE OF ROBOT SYSTEMS. IT CAN BE USED BOTH IN OFFICES AND ON THE FACTORY FLOOR.

FEATURES AND BENEFITS

- ROBOGUIDE aims at verifying the operation of the robot. It can for example check possible interference between the robot and other objects, verify the various operations with an animated simulation or even monitor a robot with an animated image.
- Sales and application engineers can import unique CAD models of parts, tools machines and workcells. It is easy to simulate the operation and performance of the robot system and evaluate cycle times and reach.
- It includes the Integrated Virtual Teach Pendant that looks and operates like a real teach pendant.

CELL CALIBRATION AND USER FRAME
ROBOGUIDE automatically creates reference programs in order to calibrate the simulation to the real robot system. Three taught robot positions allow adjusting the entire process.

COLLISION DETECTION
Collision detection feature to get a visual warning in case of collisions during the robot simulation

EASY PROGRAMMING OF STANDARD SOFTWARE TOOLS
Application software packages can be selected and configured with ROBOGUIDE. This reduces system cost and drastic accelerates system start up.

GRAPHICAL AND VIDEO DISPLAY OF ROBOT PROGRAMS
- Motion trace displayed during testing
- AVI video file output possible
- Graphical output of results for quick documentation and decision making

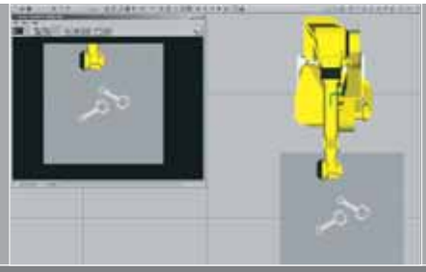
IMPORT OF CAD DATA IN IGES FORMAT
Imported formats help build system layouts and evaluate system operation quickly and comprehensively.

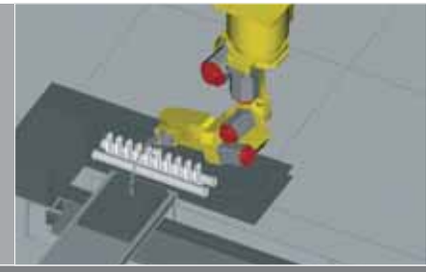
PROFILER FUNCTION
The teach pendant program profiler analyses the timing of each program line in order to achieve best cycle times.

VIRTUAL TEACH PENDANT
- Easy to use with same menus & displays as the real robot
- No special training necessary

EASY TO USE POWERFUL OFFLINE PROGRAMMING SOFTWARE
ROBOGUIDE allows powerful programming with an intuitive and easy-to-use interface
- Cell Layout and Cycle Time can be tested Offline
  - Virtual controller technology for true cycle times and reach
  - All robot models can be simulated. ArcTool, SpotTool and HandlingTool application software can be selected and configured.
  - Easy to use with Virtual Teach Pendant (Same menus & displays as the real robot)
- Offline Programming speeds system integration and reduces system cost
  - Cycle time profiler, collision detection & work envelop display
  - Motion trace displayed as node map; AVI video file output
  - Import of work pieces, tools, fixtures and obstacles in IGES format

ROBOGUIDE VISION OPTION
FANUC ROBOGUIDE Vision Option add the simulation and teaching of FANUC vision systems to FANUC ROBOGUIDE, the offline robot programming software for personal computer. It includes virtual cameras, which can be installed in the virtual robot work cells, as well as the teaching and execution of vision processes.



OPTION PACKAGE: CHAMFERING PRO FOR INTELLIGENT DEBURRING

Automated robotic deburring with the Intelligent Deburring Package is done in 3 easy steps

1. STEP 1: Click the lines to be deburred on the 3D CAD data of the parts displayed on the ROBOGUIDE screen to generate the robot deburring programs automatically.
2. STEP 2: Simulate and check the automatically generated deburring programs on the ROBOGUIDE screen.
3. STEP 3: Using the 3D laser vision sensor (V-500*i*A/3DL), the intelligent robot recognises the position of the parts delivered to the cell and executes deburring by fitting the program generated in ROBOGUIDE with the actual parts.

The use of intelligent robots enables the automatic generation of deburring programs and the elimination of positioning fixtures. The result is simple and low cost deburring cells that can adapt easily to part changes.

OPTION PACKAGE: PAINT PRO

FANUC Robotics' PaintPRO software is a graphical offline programming solution that simplifies robotic path teaching and paint process development. PaintPRO is specifically designed to create paths that can be utilised by FANUC Robotics' PaintTool application software package with the controller.

OPTION PACKAGE: WELDPRO

Weldpro is an extension of ROBOGUIDE dedicated to Arc Welding.

- A welding system can be easily setup using 3D CAD model of parts.
  - · Peripheral fixtures are easily added
  - · A welding program is created with designation of a path, torch angle, travel angle and so on by an operator
- A welding program for a robot is easily generated. The generated program can be verified on the ROBOGUIDE display by animation.

OPTION: DUAL ARM PROGRAMMING FOR WELDING

Dual Arm is a plug-in option dedicated to Dual Arm Arc Welding applications. A handling robot holds the work piece, while the arc welding robot is welding.

- A welding path can be specified by clicking the line on the CAD model
- A welding program is generated with the designation of torch angle, travel angle and so on by an operator
- Robot's stroke limit check and interference check between the part and others are automatically done
- The generated program is transferred to the actual robot controller.

OPTION: LINE TRACKING

This option allows the offline programming of line tracking applications.

OPTION: ROBOGUIDE ENHANCEMENT PLUG-INS

This additional package allows enhanced offline programming functions:

- *i*Pendant interface in the ROBOGUIDE program
- AutoPlace function which automatically positions the robot relative to the work piece

FEATURES AND BENEFITS