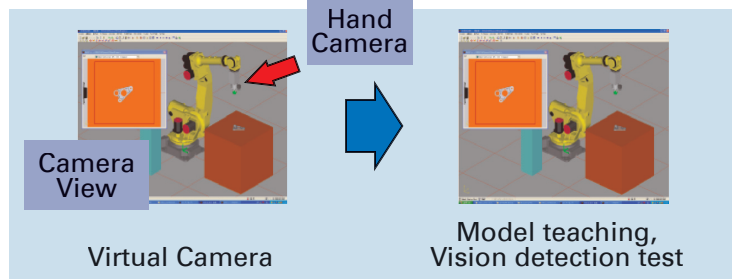# Standard PC option/option

Vision PC option

- Support iRVision teaching and simulation on ROBOGUIDE
  - Check camera position by virtual camera
  - Vision model teaching and detection test by 3D CAD data of a work

Hand Camera

Camera View

Virtual Camera

Model teaching, Vision detection test

ASCII translator package

Program function

- Robot programs Text⇔Binary translation.
- System variable Binary⇒Text translation, KAREL Text⇒Binary translation.

PC

R-30iA

Translation

ASCII file

Binary file
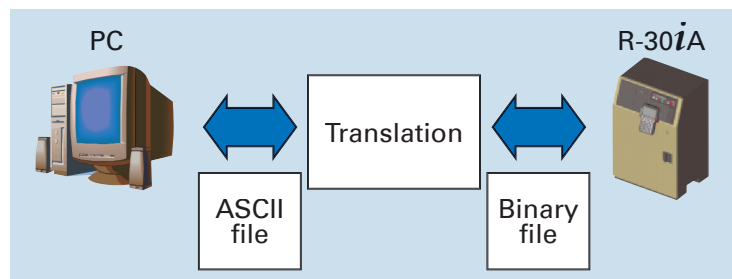
Specifications

Software		Specifications
Standard software		Modeling
		Layout
		Programming
		Simulation
		Remote Monitor
		Profiler
Standard PC option	Auto place PC option	Calculate robot placement position so as to minimize cycle time in the specified range
	Duty estimation PC option	Estimate OVC, OH alarm by motor torque
	Life estimation PC option	Estimate reducer life by motor torque
	Consumption power estimation PC option	Estimate consumption power by motor torque
	Vision PC option	iRVision teaching/simulation by using virtual camera
	Line tracking PC option	Robot tracking movement can be simulated
	System monitoring tool PC option	Monitor function for system trouble analysis CCD Camera is required in addition to this.
	Coordinate PC option	Program generation for mult-robots coordinated motion
	Spray PC option	Simulate the lubricant spray to die-cast mold
	CAM connection PC option	Provide the simulation functions on ROBOGUIDE to CAM software
	Motion Analysis PC option	Analyze motion and estimate duty, reducer life, power consumption
	Robot integration setup PC option	Creates a robot setup file on PC and downloads the file to robot controller
	Servo gun integration setup PC option	Creates a servo sun setup file on PC and downloads the file to robot controller
Application option	WeldPRO	Navigation menu
		Program generation for arc welding
		Simulation for arc welding
	ChamferingPRO	Navigation menu
		Program generation for chamfering
	SpotPRO	Program generation for spot welding
		I/O interlock automatic setting
	PalletPROTP	Program generation for palletizing
		Simulation for palletizing
	MotionPRO	Cycle time reduction, trajectory optimization, Reducer Life Optimization and Power Optimization
	DiagnosticsPRO	Robot diagnosis and preventive diagnosis
Ascii translator package		Ascii binary translation for file(TP program, variable, register, KAREL)

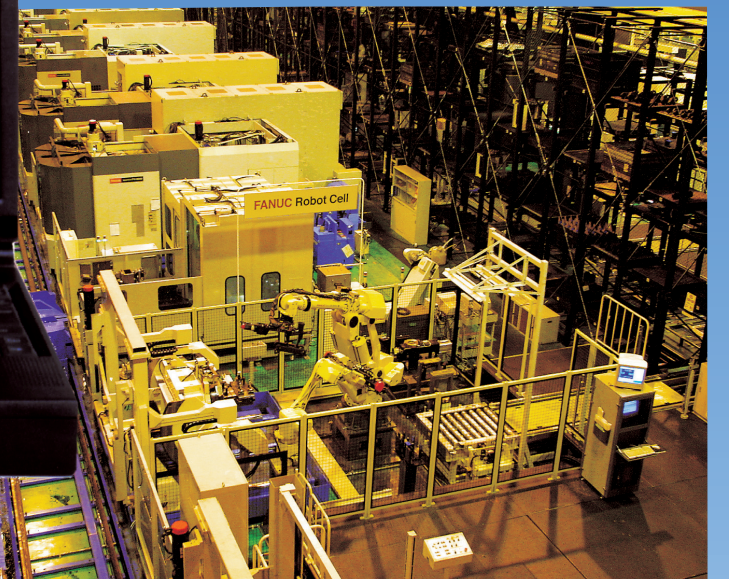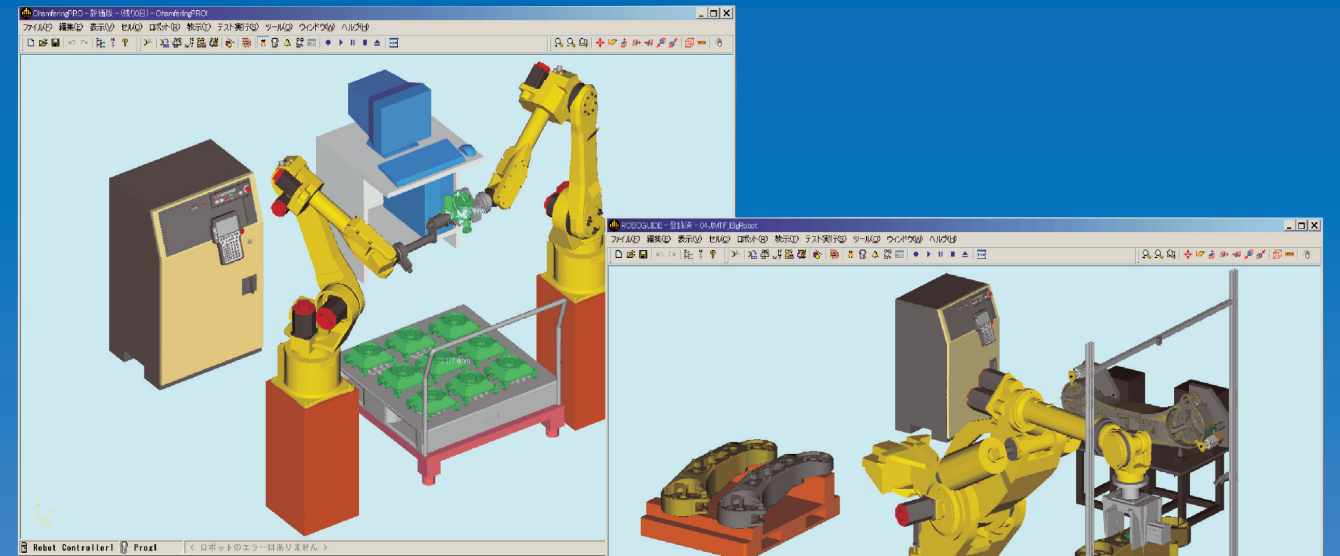| Hardware option	Specifications
Robot simulator	Highly accurate simulation

Condition

The PC with the following condition is required.

Item	Contents
OS	Windows® XP(32bit, 64bit),Windows® Vista(32bit, 64bit), Windows® 7(32bit, 64bit), DirectX 8.0, IE6 or later
CPU	More than Core™2 Quad
Memory	More than 4 GB or more than 512MB
HDD	More than 2GB
Others	Communication with robot controller via Ethernet Display with more than 1024x768, 65000 colors Mouse and DVD drive available under Windows

＊1 Windows® is registered trademark of Microsoft Corporation.
＊2 Core™2 Quad is registered trademark of Intel Corporation.

FANUC ROBOGUIDE

FANUC CORPORATION

Features of ROBOGUIDE

- Animation tool that easily enables a quick and low cost verification of robot application systems
- Easy creation of layout for devices and machines. Special skills are not required
- Program creation using animation
- Extreme reduction of start-up time and maintenance time with offline checking. Achievable even on the shop floor
- Accurate simulation of robot movement and application commands by virtual robot
- Robot application specific tools with highly efficient operation
  - WeldPRO
  - ChamferingPRO
  - SpotPRO
  - PalletPROTP
  - MotionPRO
  - DiagnosticsPRO
- ASCII translator package which converts various robot files between binary and ASCII
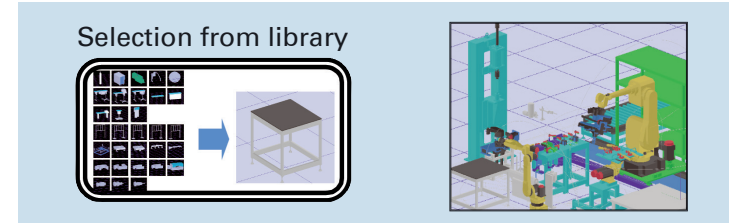
ROBOGUIDE

Easy and highly accurate interface from design to confirmation of robot system

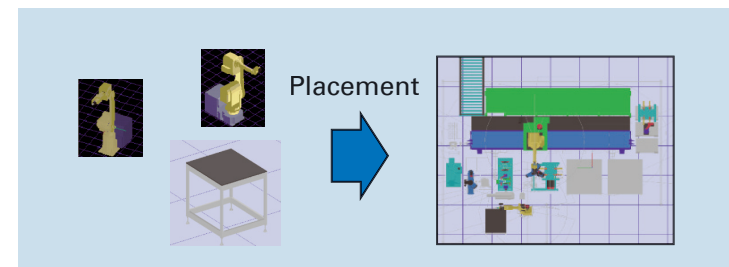| Current system up tasks	System up working by ROBOGUIDE
Concept design	• Modeling by library function, CAD IF function • Placement of robot and workpiece by layout function • Robot configuration check by graphic jog
Process verification	
Teaching, programming	• Programming by TP emulation • Automatic robot program generation from shape data
Robot motion confirmation	• Simulation of FANUC robot commands • Highly accurate simulation
	• Download program to robot

Standard software

Modeling function

- Reduce time for modeling devices
  - Select objects from the library and modify using dimension settings
  - Import CAD data for creating the parts
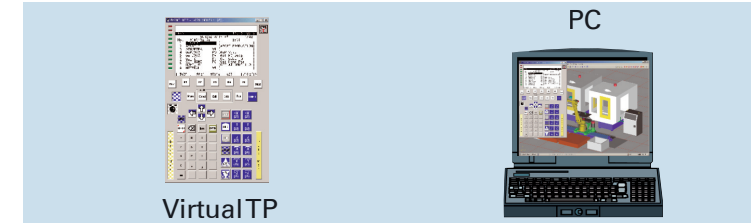 - Create the parts by modeling function

Selection from library

Program function

- Same user interface as the Robot Teach Pendant
- Create the actual program
  - Using graphic jog enables to move robot and to teach points

PC

Virtual TP

Layout function

- Change layout by mouse operation on graphic screen
- Change layout by numerical input

Placement

Simulation function

- Simulation by using virtual robot
- Simulation not only of robot movement but also application commands
- Highly accurate simulation by robot simulator

PC　Robot simulator　PC

Virtual robot

Ethernet
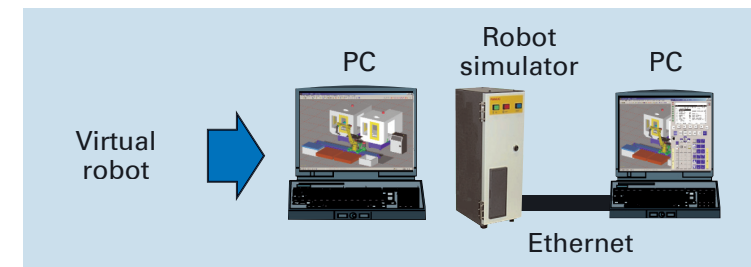
# Application tool/option

WeldPRO

- Automatically create the TP program from shape data of workpiece
- Easily select arc welding line by clicking an edge of a workpiece. This can be done even if the shape of the workpiece is complex
- Tool orientation is kept to the designated angle relative to the welding path
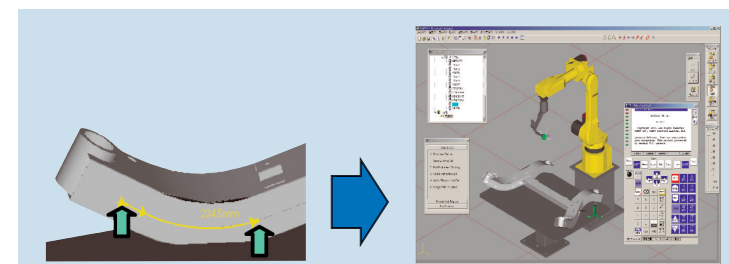
Specify the welding line(Search edges from CAD data)
Generate arc welding program automatically

SpotPRO

- Import the points from the point entities in the CAD data or CSV file
- Adjust the points automatically so that the points are normal to the CAD surface and collision between robot and devices does not occur
- Generate the spot welding program automatically from the points
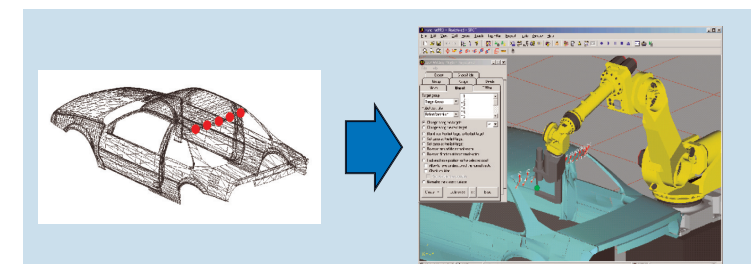
Create the spot welding point(Import from CAD data or CSV file)
Generate spot welding program automatically