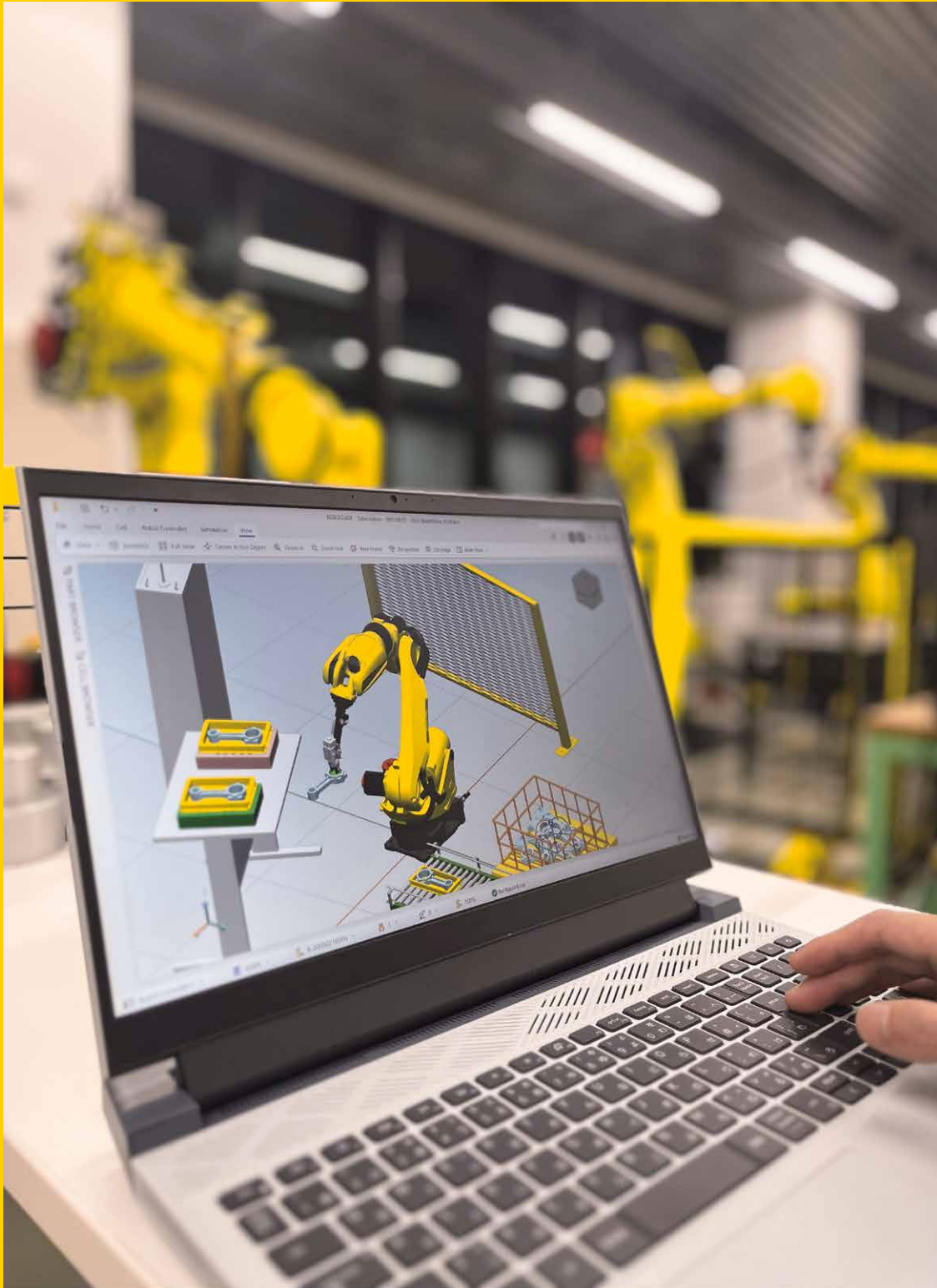


Robot System Design Tool

# FANUC

## ROBOGUIDE



# ROBOT SYSTEM DESIGN TOOL ROBOGUIDE

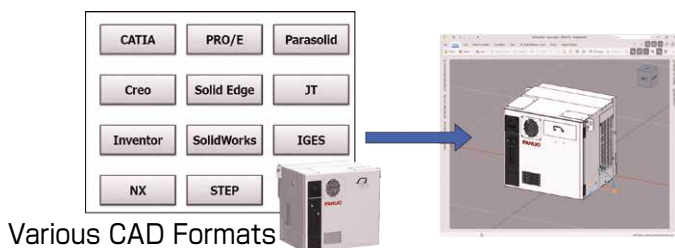
ROBOGUIDE is PC software that enables advanced visualization/simulation of robot systems, greatly reducing system startup time.

## ROBOGUIDE Features



- Cost-effective PC software allows for easy implementation and visualization/simulation of robot system construction.
- Easily construct layouts for peripheral devices and machinery using the user CAD files.
- Create robot programs visually using a graphical interface.
- Enable offline simulation as needed at actual work sites, significantly reducing system startup time.

## Layout Functions



Various CAD Formats

### Loading CAD files

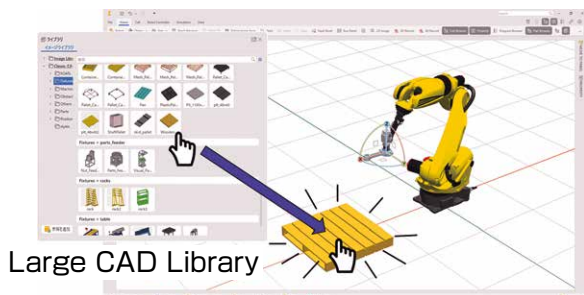
- Supports various CAD formats
- Loaded user CAD models make it easier to create layouts.

### Large CAD library

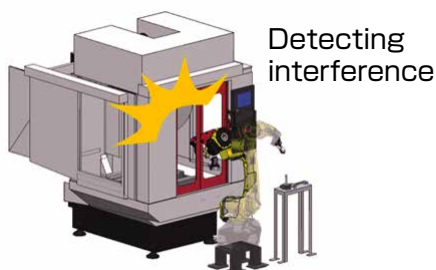
- More than 500 CAD models are provided, tailored to various applications, such as tools and workpieces.

### Location Editing

- You can change the robot posture and the CAD model placement using a mouse or direct numerical input.



Large CAD Library



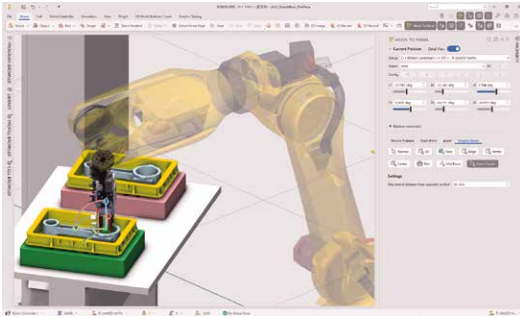
Detecting interference

### Collision Checking

- Visual confirmation of interference between peripheral devices and robots.
- Reduces the risk of damage and allows for efficient placement of workcell items.



## Program Functions



### Jog Simplification

- Use sliders to intuitively adjust the values for each axis.
- Specify the destination using the graphical interface.

### Easy teaching from graphics

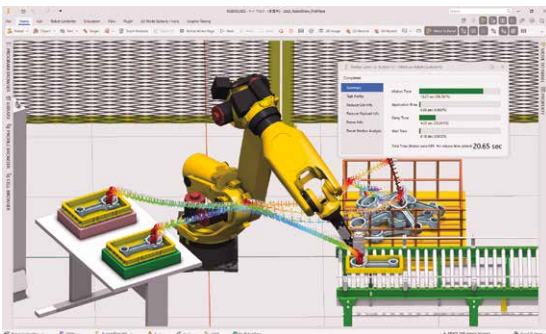
- Visually edit teaching points from the graphics screen.
- Teaching is easy, even for those unfamiliar with robot operation.

### Virtual TP, Tablet TP

- Uses the same user interface as the actual teach pendant.
- Ability to learn operational procedures safely.



## Simulation Functions



### Program execution

- Simulates created programs.
- Displays the time required for each program line.

### High-precision cycle time

- Provides accurate cycle time analysis through high-precision simulation using virtual robots.
- Display the path during simulations with color-coded indicators for speed, acceleration, and posture changes.

### Animation of Peripherals

- Compatible with animations, including robot transfer unit, AGV and door opening/closing.

## Virtual Commissioning



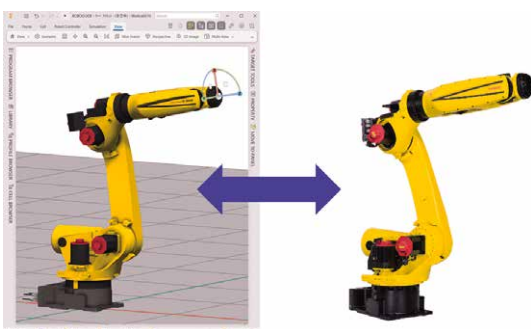
### Pre-check before applying study results in the field

- By utilizing VR, you can confirm your workcell more realistically.

### Powerful sales tool

- Check the robot's estimation system using VR goggles.

## Application to Real Robots



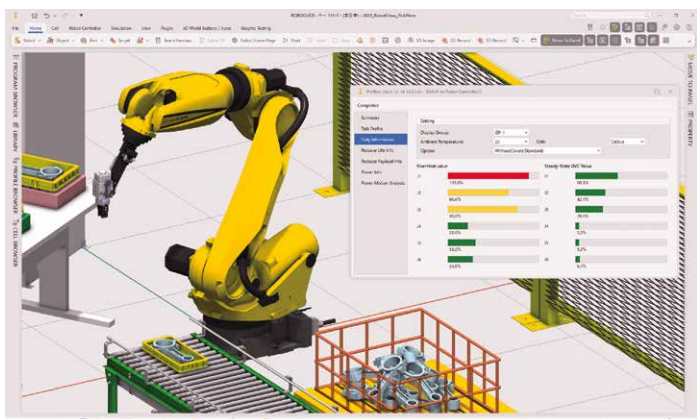
### From Virtual Robots to Real Robots

- Apply the results of virtual robot analysis to real robots, contributing to the reduction of man-hours on-site.

### From Real Robots to Virtual Robots

- Load backup data from real robots.  
Recreate the content of real robots in virtual robots.

## Option software



### Power Consumption Estimation PC Option

- Estimate robot power consumption and utilize it to save energy.

### Life Estimation PC Option

- Estimate the lifespan of the robot's gearbox to help reduce maintenance costs.

### Duty Estimation PC Option

- Estimate the robot load in advance to help programming with less load.

## Specifications

|                                        | Specifications                                              | V10      | Classic V10 |
|----------------------------------------|-------------------------------------------------------------|----------|-------------|
| Standard Function                      | Layout                                                      | Standard | Standard    |
|                                        | Library                                                     | Standard | Standard    |
|                                        | CAD import                                                  | Standard | Standard    |
|                                        | CAD converter                                               | Standard | Option      |
|                                        | Programming                                                 | Standard | Standard    |
|                                        | Simulation                                                  | Standard | Standard    |
|                                        | Virtual Teach Pendant                                       | Standard | Standard    |
|                                        | Tablet TP                                                   | Standard | Standard    |
|                                        | Export movies                                               | Standard | Standard    |
|                                        | Backup data loading of the actual robot                     | Standard | Standard    |
|                                        | Profiler, Simulation Analysis                               | Standard | Standard    |
|                                        | Virtual Commissioning, VR Function                          | Standard | -           |
| Duty Estimation PC option              | Estimate OVC, OH alarm using motor torque                   | Option   | Option      |
| Life Estimation PC option              | Estimate reducer life using motor torque                    | Option   | Option      |
| Power Consumption Estimation PC option | Estimate consumption power using motor torque               | Option   | Option      |
| Bending Program Generation             | Automatic path generation along sheet metal bending process | -        | Option      |
| Screw Tightening Simulation            | Simulate screw-tightening situations                        | -        | Option      |
| CAM connection package                 | Develop function to connect from CAM to ROBOGUIDE           | -        | Option      |
| WeldPRO                                | Navigation menu                                             | -        | Option      |
|                                        | Program generation for arc welding                          | -        |             |
|                                        | Simulation for arc welding                                  | -        |             |
| ChamferingPRO                          | Navigation menu                                             | -        | Option      |
|                                        | Program generation for chamfering                           | -        |             |
| SpotPRO                                | Program generation for spot welding                         | -        | Option      |
|                                        | I/O interlock automatic setting                             | -        |             |
| PalletPRO                              | Program generation for palletizing                          | -        | Option      |
|                                        | Simulation for palletizing                                  | -        |             |
| PaintPRO                               | Navigation menu                                             | -        | Option      |
|                                        | Program generation for painting                             | -        |             |
| iRPickPRO                              | Simulation for picking                                      | -        | Option      |

## Requirements

The PC with the following condition is required.

| Item               | Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OS                 | Windows® 11 22H2 or later,<br>Windows® 10 (64bit) 22H2 or later,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| System Memory      | More than 8GB, 16GB or more is recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Video Card         | A professional graphics card/chip that supports advanced processing, such as NVIDIA, is recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Resolution         | 1920x1080                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Color Depth        | 32-bit color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| HDD                | More than 8GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Other Requirements | <ul style="list-style-type: none"> <li>▶ Ethernet, Mouse, If installing from media, Blu-Ray drive is required too.</li> <li>▶ Sign in as the local Administrator user to install the product and register the full version of the software.</li> <li>▶ Chrome V83 or later</li> <li>▶ .NET Framework 3.5, 4, 4.8</li> <li>▶ Normal font size (96 DPI).</li> <li>▶ Port 3002 should not be used for any other purpose.</li> <li>▶ ROBOGUIDE can use IP address 127.0.0.1.</li> <li>▶ When RIPE or a loopback address is used, ROBOGUIDE can use IP address 127.0.0.n (n≥1).</li> <li>▶ License Server can use IP address 127.0.0.2.</li> <li>▶ Computer name must be A-Z, a-z, 0-9 or '-'.</li> </ul> |

\*1 Windows® is registered trademark of Microsoft Corporation.

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