

Robot programming support software

# neoROSET

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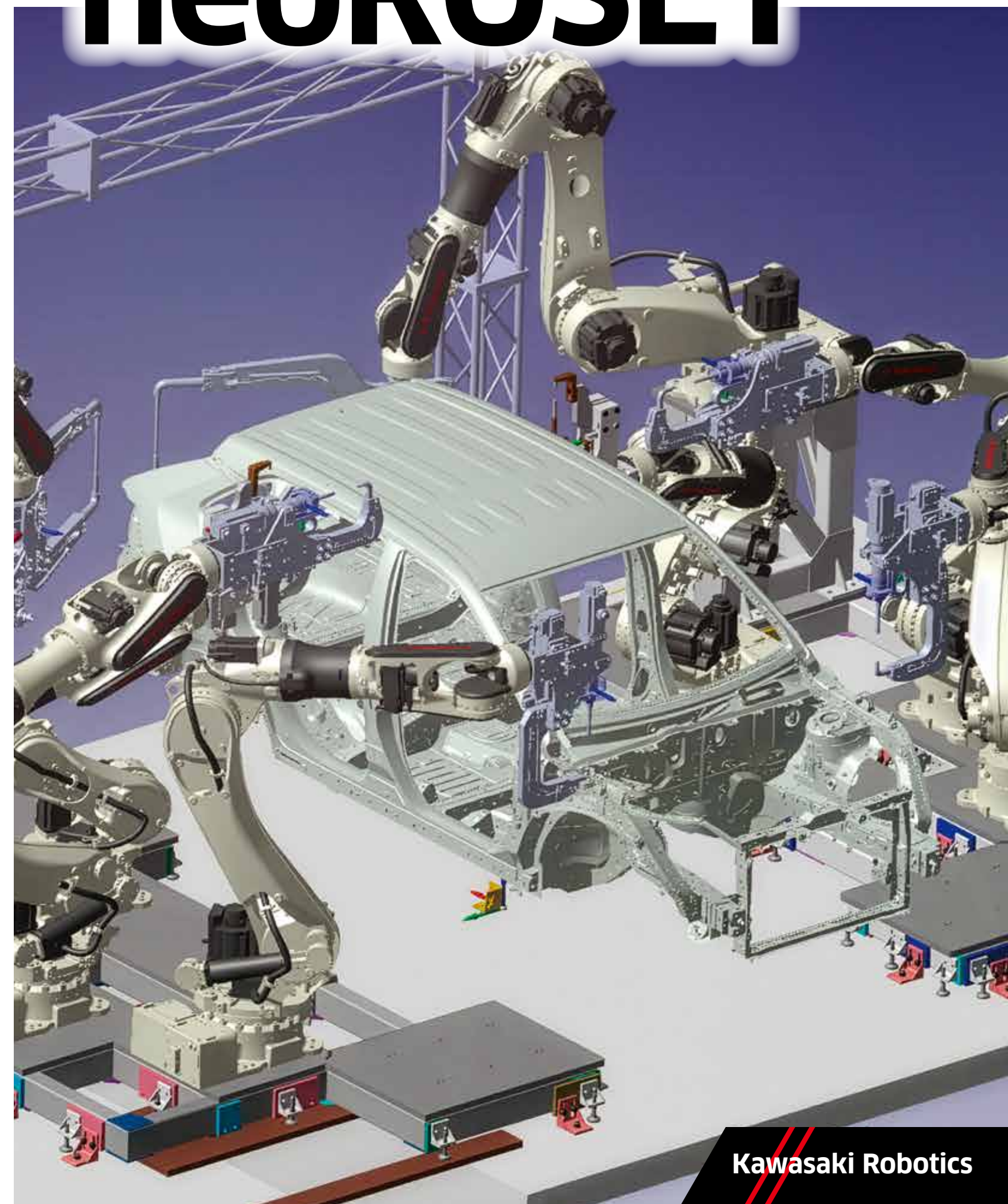
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### CAUTIONS TO BE TAKEN TO ENSURE SAFETY

- For any persons involved with the operation / servicing of your system, including Kawasaki Robot, they must strictly observe all safety regulations at all times. Please carefully read the Manuals and other related safety documents.
- Products described in this catalogue are general industrial robots. Therefore, if a customer wishes to use the Robot for special purposes, which might endanger operators, or if the Robot has any problems, please contact us. We will be happy to help you.
- Please be careful as Photographs illustrated in this catalogue are frequently taken after the removal of safety fences and other safety devices stipulated in the safety regulations from the Robot operation system.



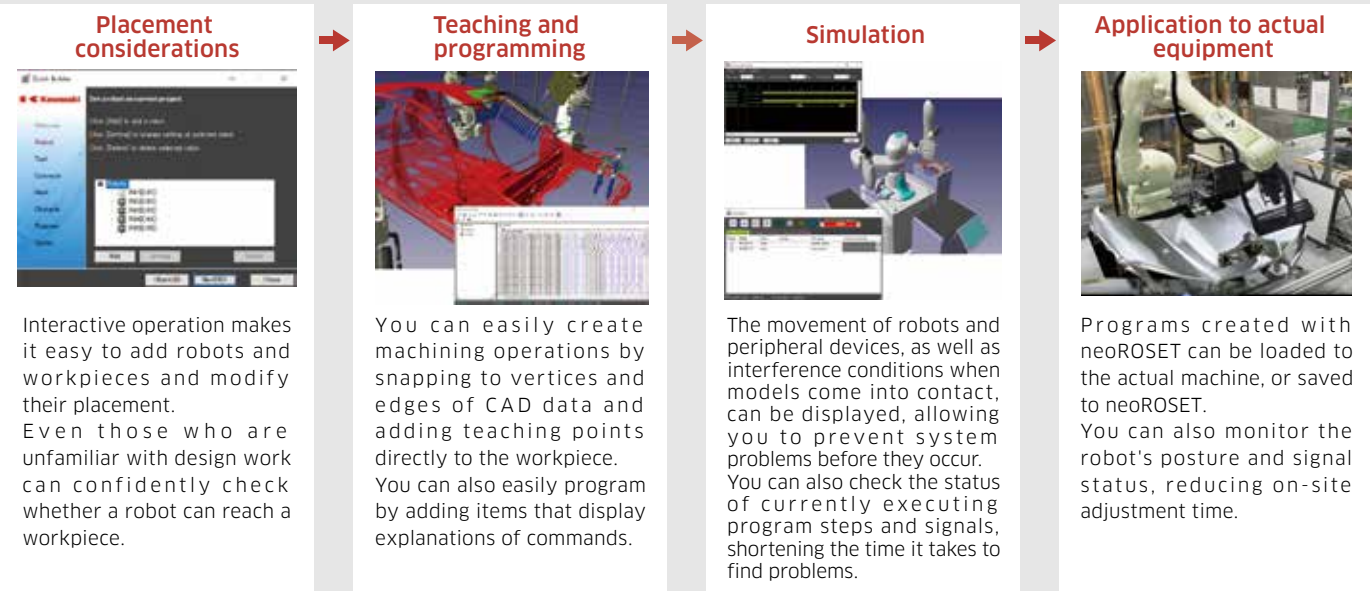
# Robot programming support software

neoROSET is a programming tool that enables robot programming and accurate simulation on a PC.  
By performing offline verification in advance, risks that may be concerned about introducing a robot system can be reduced.



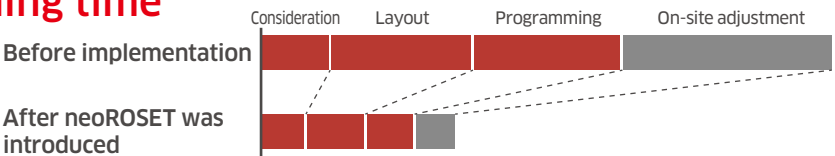
## Flow of using the system

neoROSET provides maximum effectiveness with simple operation.

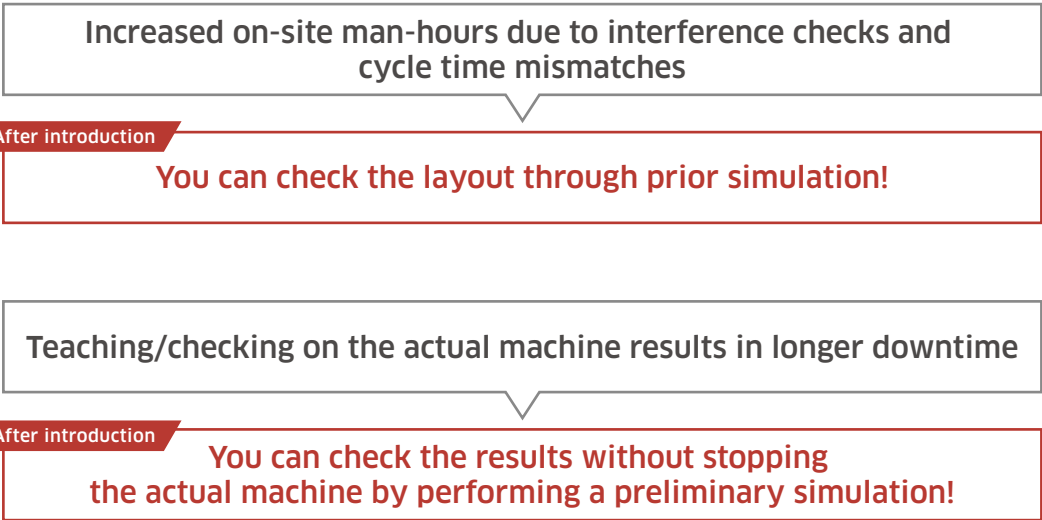


## Dramatically reduces teaching time

By using neoROSET, the time required for conventional offline teaching and adjustment can be reduced to a fraction or even up to one-tenth.

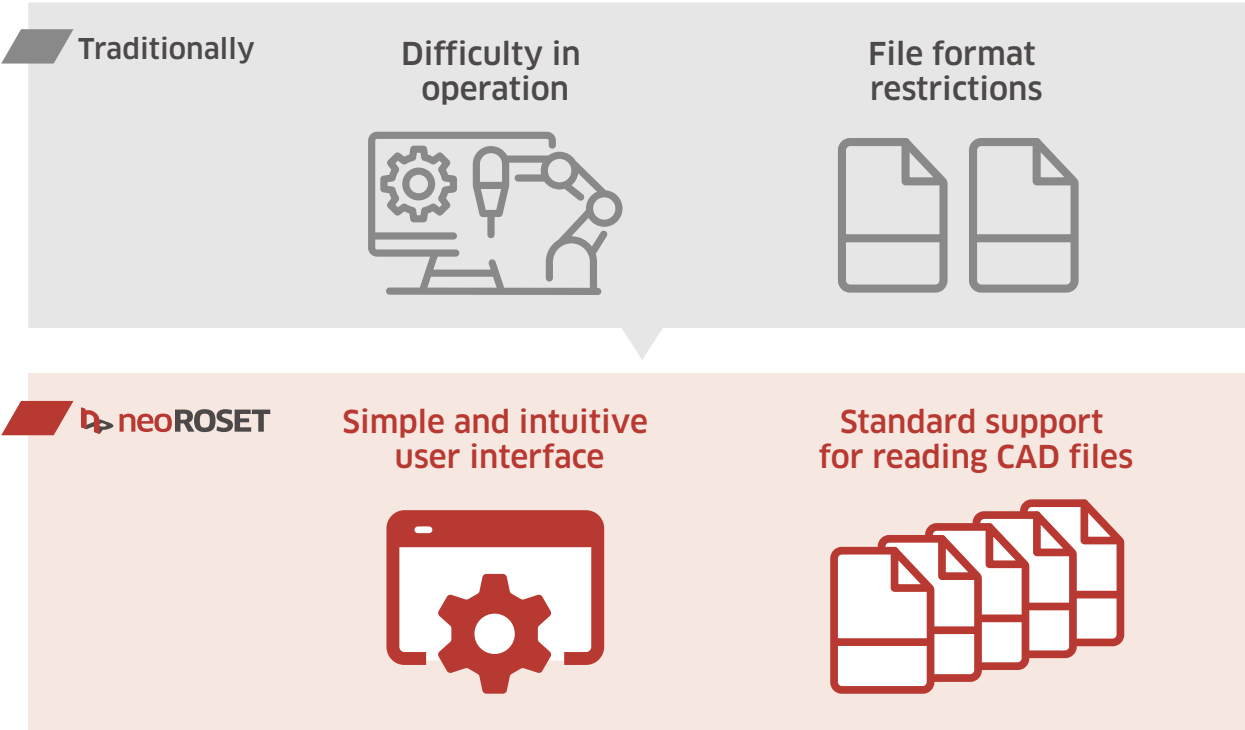


## "neoROSET" has the solution!



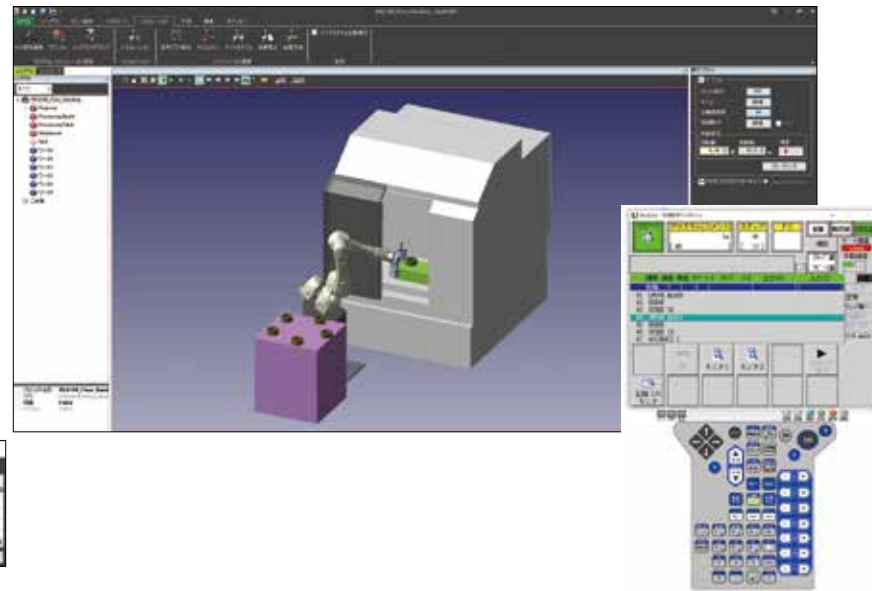
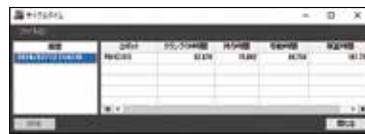
## neoROSET Why choose neoROSET?

By using neoROSET, the difficulty of operation is reduced, standard support for reading CAD files is enhanced, and costs can be significantly reduced by shortening the required time and improving efficiency.



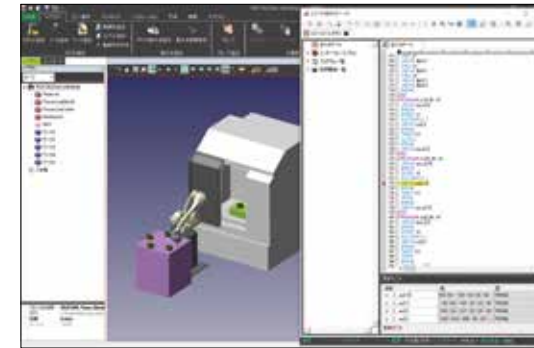
## 01. Accurate movement trajectory and tact time

The virtual robot controller technology that Kawasaki has developed over many years enables highly accurate reproduction of movement trajectories and tact times.



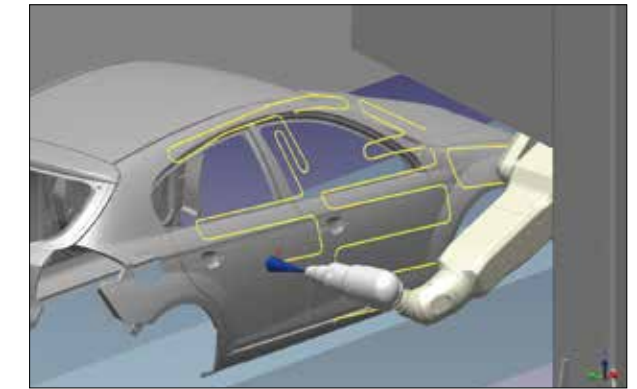
## 05. AS Language Editor

This is an editor that allows you to easily create Kawasaki robot language programs in conjunction with a graphic screen.



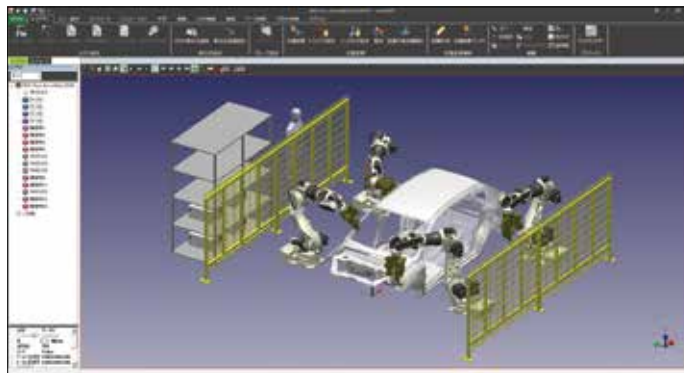
## 06. Display of processing results

The trajectory of the machining results when welding or painting commands are executed can be displayed separately from the air cutting operation.

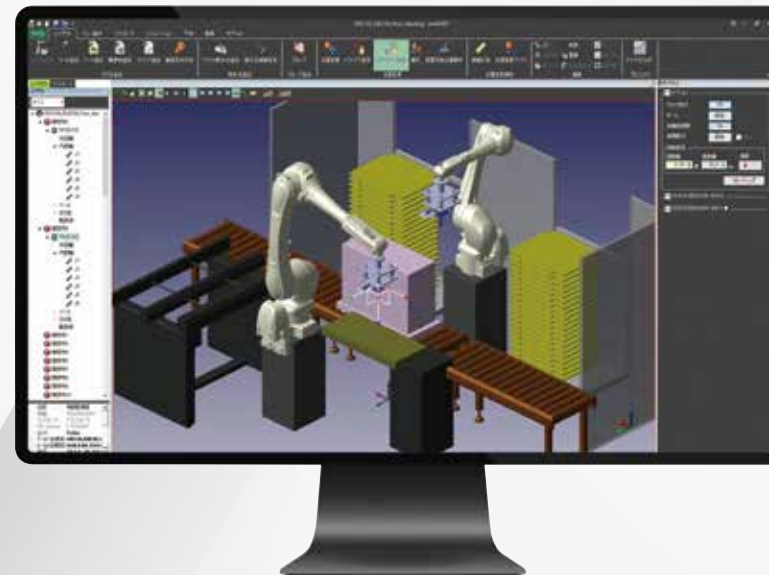


## 02. Supports multiple robots and external axes

You can simulate multiple robots with different controllers at the same time. You can also freely reproduce external axes controlled by the robot controller.

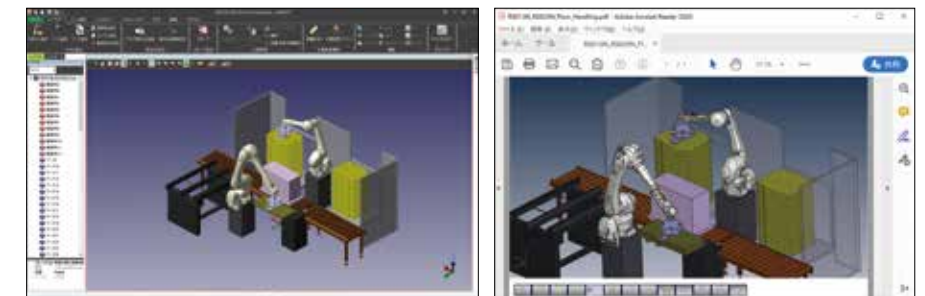


## Create robot programs visually using a simple, intuitive user interface graphic screen.



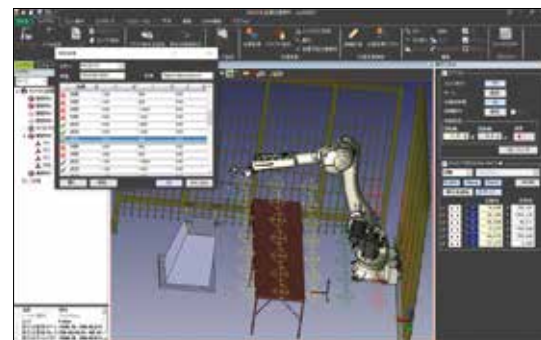
## 07. 3D PDF Creation

The actions during the simulation can be output to a file and played back in 3D using a standard PDF reader, making it useful for presentations and information sharing.



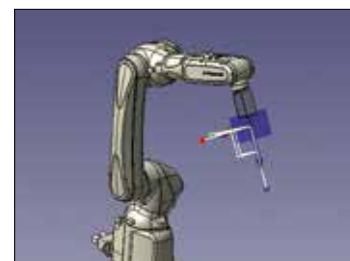
## 03. Interference check, layout verification

Before installing it on the actual device, you can check in advance whether there are any interference or operating range problems on your PC.



## 04. Easy to use

You can intuitively change the layout position and robot posture by using the mouse.



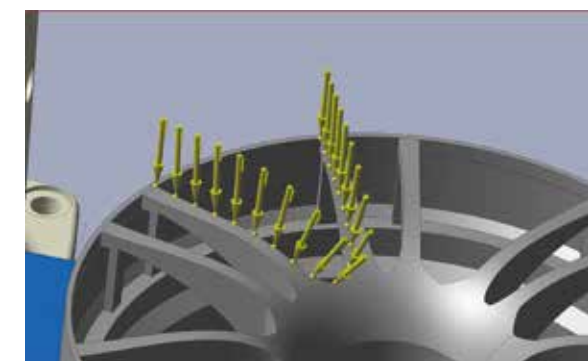
## 09. CAD File Import

It supports importing many types of CAD files as standard, which is useful for layout construction and CAD teaching.

| Format    |            |
|-----------|------------|
| STEP      | CATIA      |
| IGES      | SolidWorks |
| ACIS      | Inventor   |
| DXF       | Pro/E      |
| DWG       | Solid Edge |
| JT        | Rhinoceros |
| Parasolid | NX         |

## 08. Line Teaching Function

By selecting lines or surfaces on the workpiece, the line teaching function enables batch generation of teaching points at equal intervals along the line, using the surface normal direction as the reference.



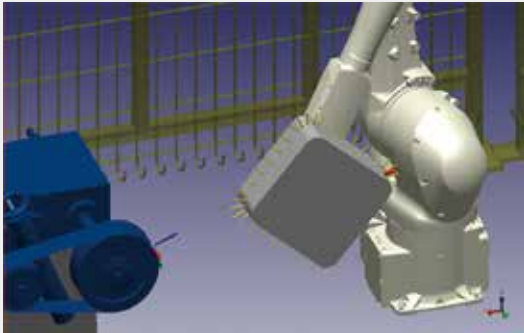
CAD formats are supported as standard!

neoROSET can import data from many commonly used 3D CAD programs and use it to create programs. This allows you to build an environment where CAD data and robots can be used, seamlessly connecting the design department and the manufacturing site. In addition, it is backward compatible with the conventional software K-ROSET, and can load K-ROSET projects. \*Supported CAD formats are updated from time to time.

| CAD Format        |            | Standard Format |           |
|-------------------|------------|-----------------|-----------|
| Format            | Extension  | Format          | Extension |
| CATIA V5          | CATProduct | ACIS            | sat       |
|                   | CATPart    |                 | sab       |
| CATIA V4          | model      | IGES            | iges/igs  |
|                   | sldasm     |                 | step/stp  |
| SollidWorks       | sldprt     | DXF             | dxf       |
|                   | asm        | DWG             | dwg       |
| Pro/E             | prt        |                 | jt        |
|                   | 3dm        | Parasolid       | x_t       |
| Rhinceros         | ipt        |                 | X_b       |
|                   | iam        | STL             | stl       |
| Autodesk Inventor | par        |                 |           |
|                   | asm        |                 |           |
| SolidEdge         | psm        |                 |           |
|                   | prt        |                 |           |
| NX                |            |                 |           |
|                   |            |                 |           |

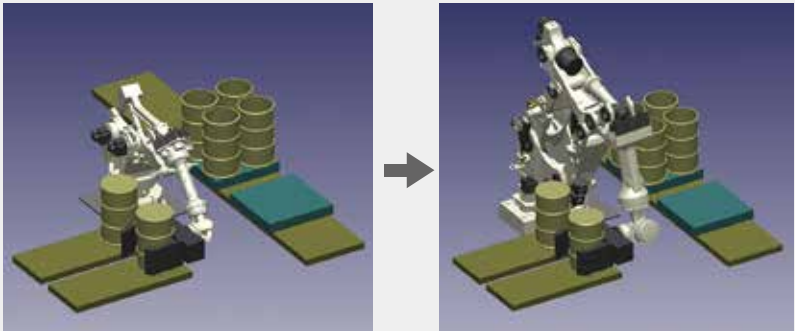
Visualization of on-site systems

By loading the save data from the actual robot controller, you can recreate the on-site system on neoROSET. You can check the robot coordinates and teaching point positions that cannot be seen in real life.



Extensive conversion functions

Teaching points can be converted using the shift and mirror copy functions, which helps with program correction work during on-site adjustments. In addition, by replacing robot models, model selection can be easily performed when updating aging robots.



Licensing method

**Node-Locked License**

A license will be issued to the PC that uses neoROSET.

**Floating License**

A license will be issued to the license management PC. Any PC connected on the network can use neoROSET.

Operating environment

| Item                  | Contents                                                                                                                |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Operating System (OS) | Windows® 11 Pro x64/Windows® 11 Enterprise x64<br>Japanese version / English version / Chinese version / German version |
| CPU                   | Intel Core i5 or higher recommended                                                                                     |
| Memory                | Minimum 8GB RAM, 16GB or more recommended                                                                               |
| Free space            | 30GB or more, Solid State Drive (SSD) recommended                                                                       |
| Resolution            | 1920 x 1080 or higher recommended                                                                                       |
| Video card            | Intel UHD Graphics or higher<br>NVIDIA Quadro series recommended                                                        |
| Other requirements    | Mouse (with wheel recommended) or equivalent pointing device<br>PDF Reader such as Adobe® Acrobat® Reader               |

Robot School neoROSET Course Now Open!

- A new neoROSET course has been added to the Robot School curriculum. We offer training programs tailored to our customers' specific needs.
- This course is for creating programs and simulations using the offline programming software "neoROSET".
  - It is recommended that trainees have practical experience using industrial robots or have taken basic (instructional) training before taking this course.
  - Since this is not a special education course, we do not issue a certificate of completion.
  - On-site schooling at the customer's workplace is also available, so please consult with us.



For more details