K-ROSET Features

K-ROSET is Kawasaki's offline programming software tool, allowing you to display and examine 3D models of equipment, instruments, and products on a computer. K-ROSET also lets you use your computer to program robots and perform simulations. By employing K-ROSET in the planning phase, you can eliminate project risks before actually installing the equipment.

In addition, verifying robot operations preprogrammed by K-ROSET helps to reduce the amount of work time needed for production.

K-ROSET also allows you to preliminarily test Kawasaki robot products designed to support various production processes, thereby helping you to better optimize your assets.

Virtual robot simulation technology

K-ROSET makes full use of the virtual robot controller technology we have developed through our years of experience in the industry. This technology enables K-ROSET to operate in practically the same manner as a robot controller working on a real production.

Enhanced robot system productivity

K-ROSET lets you display and operate virtual teach pendants on your computer. This enables you to optimize the production system while training and teaching, without inhibiting actual production.

Collision check and layout verification

Using K-ROSET, you can perform a preliminary check on your computer to determine whether items of production equipment collide with each other during operation. You can also use K-ROSET to verify the layout in advance, enabling you to prevent production equipment from being damaged by collision.

Video creation

K-ROSET can save data from the model drawing area as a video file while running programs. This data can then be used to prepare documents for presentations.

Useful options

Using the simplified palletizing software K-SPARK (optional robot software), you can register workpieces, pallets, and palletizing patterns. After registering this data, you can easily create robot programs. For details, contact your local sales representative.

Accurate operation trajectory and cycle-time

Teaching programs are run on the virtual robot controller, thus it is possible to reproduce highly accurate operation trajectories and cycle-time. Teaching programs created using K-ROSET are compatible with real machines, with no need for modification. The reverse is also true. In addition, K-ROSET makes it possible to correctly execute AS Language code on your computer, enabling you to minimize the amount of time needed for making adjustments in the field.

Displaying processing trajectories

Using K-ROSET, you can display the processing trajectories obtained when welding and painting instructions are executed. These are managed distinctively from the air-cutting trajectories.

Support for extended axis systems

K-ROSET can freely optimize the external axis controlled by the robot controller and then simulate the customized axis.

Importing CAD data

K-ROSET supports data in STL format, and can accept data that is output in STL format by a CAD tool. There is also an option available for converting IGES data to STL format.

Operating environment

<table>
<thead>
<tr>
<th>Applicable OS</th>
<th>Windows® XP Professional x86, x64 *1</th>
<th>Windows® Vista x86, x64 *2</th>
<th>Windows® 7 x86, x64 *3</th>
<th>Japanese/English</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel® processor recommended</td>
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<tr>
<td>Memory</td>
<td>4GB or larger recommended</td>
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<tr>
<td>Resolution</td>
<td>1280 x 768 dots or higher recommended</td>
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<tr>
<td>Video card</td>
<td>Support for OpenGL</td>
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<tr>
<td>Disk free space</td>
<td>2GB or larger</td>
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<tr>
<td>Media</td>
<td>DVD drive (used for installation)</td>
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<tr>
<td>Application</td>
<td>Adobe® Reader® 7 or later</td>
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<tr>
<td>CAD format</td>
<td>STL (*5)</td>
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</tbody>
</table>

*1: Supported by Windows XP Professional x86 (32 or 64 bits)
*2: Windows Vista Ultimate, Business, and Enterprise editions (32 or 64 bits)
*3: Windows 7 Ultimate, Business, and Enterprise editions (32 or 64 bits)
*5: Only supported by the Windows 7 Professional, Ultimate, and Enterprise editions.