Controlgear from WKC. Maximize Flexibility.

Robot Control Cabinets (RCC) for perfect ready-to-connect integration of your Run MyRobot application.

www.siemens.com/sinumerik-robotics
As part of an integrated and smart factory, we use the digital twin for engineering purposes right from the outset. This allows us to engineer and implement your customer projects individually with maximum quality and efficiency throughout the entire value-add chain.

Robot Control Cabinets from Siemens WKC Digitalization also enables machine tools to be used in ever closer association with automated applications. The “Run MyRobot” Siemens solution is an example of this. The solution now means robots can be integrated even more easily in the Sinumertik CNC system and the digital interface of a machine tool.

Another solution that likewise supports this technology is the standardized Robot Control Cabinet (RCC) from Siemens WKC. The RCC provides you with the choice of a basic control cabinet version, which is immediately available and ready to connect to your robotics systems, a predesigned solution with additional options, or a 100% customer-specific application.

The RCC basic specification offers a preconfigured, ready-to-connect solution for your robotics projects, including a SIMUMERIK CNC system and high-performance SINAMICS drive technology. There are no additional development costs thanks to the existing electrical design.

Depending on requirements, additional standard options can be selected and integrated into the basic RCC specification. For example a SINAMICS line filter to satisfy specific EMC requirements or an Ethernet switch for easy integration of further network components. Costs are only incurred here for the selected standard options.

The functional requirements to be met by the control cabinet vary, depending on the specific application. The customized RCC version can be individually adapted 100% to your project. Integration of another motor module to control additional motion axes of the robot kinematics, for example.
Pre-configured basic versions for quick and easy commissioning.
RCC standard basic specification with additional options

Design example Size 1

**Technical Data**:  
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Data / values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply system</td>
<td>TN-C / 3AC 400V / 50Hz</td>
</tr>
<tr>
<td>Control voltage</td>
<td>24 V DC (buffered: 4x)</td>
</tr>
<tr>
<td>Color</td>
<td>Enclosure RAL 7035, plinth RAL 9005</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>RCC Size 1: 1.400 x 1088 x 500mm</td>
</tr>
<tr>
<td></td>
<td>RCC Size 2: 1.400 x 1488 x 500mm</td>
</tr>
<tr>
<td>IP protection class</td>
<td>IP 54 for demanding conditions</td>
</tr>
<tr>
<td>Ambient temperature (max.)</td>
<td>35°C</td>
</tr>
</tbody>
</table>

**Component examples**:  
- SINUMERIK / SINAMICS / Software based on SiemensSizer specification  
- ET 200SP PLC Interface 16DI, 8xDQ, 8xF-DI, 4xF-DQ  
- Siemens connection box, included SINUMERIK Handheld Terminal HT 8  
- Plug-in connector for the robot interface, power supply and encoder (6 axes)

**Additional standard options**:  
- SINAMICS line filter (cat. C3 and C2 based on EN 61800-3)  
- Siemens SCALANCE Ethernet Switch

**Contact with Siemens WKC**:  
WKC coordinates your RCC project in all phases of solution development. Please contact your representative at the Siemens sales office if you have any implementation questions.

For universal, robust operating conditions

Flexible and modular expandable system

Support and technical consulting  
Many years of experience and know-how  
Robust cooling and EMC concept  
Digital twin and optimized design  
100% Siemens quality  
Worldwide availability

Standard options:  
- Siemens SCALANCE Ethernet Switch

Standard basic:  
- Siemens SIMATIC ET 200SP

Standard options:  
- Siemens SINAMICS Line Filter

Standard basic:  
- Siemens connection box, incl. SINUMERIK Handheld Terminal HT 8

*The data provided here are selected examples and do not claim to be exhaustive.

*The illustration shows an RCC Size 1 without the required cooling unit or the necessary filter fan.
For more information, please contact our sales, support and promotion team:
info.wkc.industry@siemens.com kontaktieren.

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The Robot Control Cabinet (RCC) is a component designed to be used and integrated into a machine system. The machine manufacturer/end user is solely responsible for the safety of the machine system, conformity with EU directives, and suitability in the end user’s application.

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