The compact Solution for Industrial Arc Welding

KUKA cell4_arc midsize KP3-V2H dual KR

KUKA standard cells can be configured to provide tailor-made solutions for customers in arc welding through versatile, modular standard packages and automation options.

The compact cell construction, which is mounted on a base frame, enables flexible use. The entire cabin can be transported with a forklift and a truck.

The cell consists of two KUKA CYBERTECH robots, two KUKA.TraccTCP, a KUKA 3-axis positioner and a housing to protect against unauthorized access, welding spatter and welding light.

In addition, the standard cell is delivered with a technology and software package from KUKA’s product portfolio. The harmonized system enables simple and quick integration of optional extensions such as welding equipment.

If technical problems arise, a KUKA expert can already access the welding cell online and help with the integrated KUKA remote service.

Scope of delivery
Arc welding cell on a base frame with:
• (2x) KUKA Robot KR 6 R1820
• (1x) Positioner KP3-V2H1000 L2000 R600
• (2x) KUKA.TraccTCP control device
• (2x) KUKA control KR C4 smallsize with the following software application packages:
  • KUKA.SafeSingleBreak
  • KUKA.WorkVisual
  • KUKA.UserTech
  • KUKA.ArcTech Basic
  • KUKA.ArcTech Advanced
  • KUKA.TraccTCP
• Cell and safety control for all safety relevant functions
• Cell operation via a control panel with buttons for the basic functions at the loading area.
• KUKA operation panel (Buttons + smartPAD)
• KUKA Remote Service Modul
• Loading area with light curtain u. laser scanner
Ideally matched to your functional requirements

KUKA cell4_arc

Basic-Configuration - Technical Data:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell type</td>
<td>KUKA cell4_arc midsize</td>
</tr>
<tr>
<td>Robot</td>
<td>(2x) KR 6 R1820</td>
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<tr>
<td>Robot Control</td>
<td>(2x) KR C4 smallsize</td>
</tr>
<tr>
<td>Cell dimension (LxWxH)</td>
<td>7552x3840x2910mm</td>
</tr>
<tr>
<td>Positioner</td>
<td>KP3-V2H1000 L2000 R600</td>
</tr>
<tr>
<td>- Payload</td>
<td>1000 kg</td>
</tr>
<tr>
<td>- Tool radius C</td>
<td>600 mm</td>
</tr>
<tr>
<td>- Distance between face plates D</td>
<td>2.000 mm</td>
</tr>
<tr>
<td>- Media supply</td>
<td>air, weld current return, field bus</td>
</tr>
<tr>
<td>TCP check</td>
<td>(2x) KUKA.Tracc TCP</td>
</tr>
<tr>
<td>Loading area</td>
<td>Light curtain (without stepping behind protection)</td>
</tr>
</tbody>
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Options:

Depending on the requirements of the welding applications, different Option packages can be selected:

- **Welding equipment:**
  - Fronius TPS 320i Fe / TPS 400i Fe / TPS 500i Fe
  - Fronius TPS 400i Al / TPS 500i Al
  Each package includes an automated torch cleaning system TCS
- **Protection housing as a closed cabin**
  - with roof
  - interior lighting
  - preparation for connection of fume extraction system
- **Loading area with roller door (instead of light curtain)**
- **Extended KUKA application software packages:**
  - Process control and documentation system PCD
  - KUKA.RoboTeam
- **Operation and visualization with KUKA Advanced HMI**
- **Centrale energy supply**

For more information, please contact us at info@kuka.com