The compact entry for automated arc welding

KUKA cell4_arc compact KP1M single 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.

This extremely compact variant of welding cell is mounted on a base frame. It is designed for being easily transported by fork-lift and truck and thus highly flexible.

The basic configuration of this automated arc welding cell consists of one KUKA robot, one manual turn table and a cell housing, which ensures protection against welding light, welding spatter and unauthorized access. Various welding equipment options are available. A modern cell controller provides all essential functions for an efficient and high-quality operation.

In addition, the robot cells are equipped with a perfectly coordinated technology and software package from the KUKA product portfolio. This ensures an easy integration of welding equipment and programming of welding applications.

The manual turntable provides a usable table size of 1.200 x 750mm on each side.

Scope of delivery
Arc welding cell on a base frame with:
- 1x)KUKA Robot KR 10 R1420
- 1x)Manual turntable KP1-V2T250 1200x750 M
- 1x)KUKA.TraccTCP control device
- 1x)Robot control KR C4 smallsize with following software application packages:
  - KUKA.WorkVisual
  - KUKA.UserTech
  - KUKA.ArcTech Basic
  - KUKA.ArcTech Advanced
  - KUKA.TraccTCP
- Central media feed (compressed air)
- 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 Module
Ideally matched to your functional requirements
KUKA cell4_arc

Basic-Configuration - Technical Data:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Cell type</td>
<td>KUKA cell4_arc compact</td>
</tr>
<tr>
<td>Robot</td>
<td>(1x) KR 10 R1420</td>
</tr>
<tr>
<td>Robot Control</td>
<td>KR C4 smallsize</td>
</tr>
<tr>
<td>Cell dimension (LxWxH)</td>
<td>3960x2200x2320mm</td>
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<tr>
<td>Turntable</td>
<td>KP1-V2T250 1200x750 M</td>
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<tr>
<td>Max Payload (per side)</td>
<td>250 kg</td>
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<tr>
<td>Table width (per side)</td>
<td>1.200 mm</td>
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<tr>
<td>Table depth (per side)</td>
<td>750 mm</td>
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<tr>
<td>TCP check</td>
<td>KUKA.TraccTCP</td>
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</tbody>
</table>

Options:
Depending on the welding application requirements various predefined welding packages can be selected:
- Fronius TPS 320i Fe
- Fronius TPS 400i Fe
- Fronius TPS 400i Al

Each package includes an automated torch cleaning system TCS

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