KUKA flexibleCUBE – compact welding cell C-DP 05 with DP-100 M rotary positioner

The KUKA flexibleCUBE is the standardized compact welding cell from KUKA Systems. With its modular design and wide range of automation options, the KUKA flexibleCUBE is the ideal partner for a dynamic manufacturing environment.

This cell variant is equipped with a rotary positioner with a payload capacity of 100 kg per side. The working area on each side is approx. 1,000 mm x 600 mm x 500 mm (W x D x H).

The rotary positioner can be fitted on each side with a work plate with a system pattern of Ø 16 mm holes, with a spacing of 50 mm x 50 mm, enabling the use of a Demmeler-type clamping system. Simple clamping assemblies can be mounted quickly and reliably on the table.

The operator loads and unloads one side of the rotary positioner while the robot simultaneously carries out welding inside the cell.

Mechanical locking of the table during the welding operation prevents an unintentional interruption.

On completion of welding, the locking mechanism is automatically released and the table can be rotated manually by the operator in approx. 4-5 seconds.

The loading/unloading parallel to the cycle time makes this cell variant suitable for higher production volumes of work pieces that do not need repositioning during the welding operation. Typical areas of application include work pieces with seams that are accessible on one side.

Scope of supply consists of:
- Cell on base plate with two maintenance gates
- KUKA KR 5 arc robot (reach: 1,412 mm)
- Robot controller KR C4
- KUKA ArcTech welding software
- Manual rotary positioner DP-100 M
- Welding equipment with 350 A power rating
- Robotic wire feed with dress package
- Robotic welding torch with collision protection device
- KUKA KAC (KUKA Application Control) cell controller
- Central infeed point
- Human-machine interface
Technical data

Options

- KR 16-2 (reach: 1,636 mm)
- Welding equipment from various renowned manufacturers with power ratings of up to 500 A
- Aluminum welding
- TCP control station
- Touch-Sense function
- Torch cleaning station
- Fume extraction with/without extraction unit
- Parameter control software
- Remote diagnostics
- Additional consumables interfaces on the positioner
- Work plate

Rotary positioner DP-100 M

<table>
<thead>
<tr>
<th>Rated payload (per side)</th>
<th>kg</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible tilting moment (per side)</td>
<td>Nm</td>
<td>2,500</td>
</tr>
<tr>
<td>Turning range</td>
<td>°</td>
<td>± 178</td>
</tr>
<tr>
<td>Rotational velocity</td>
<td>s</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Main values of the cell

<table>
<thead>
<tr>
<th>Power supply ratings (typical)</th>
<th>kVA</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise generation</td>
<td>dB</td>
<td>78</td>
</tr>
<tr>
<td>Overall weight</td>
<td>kg</td>
<td>2,900</td>
</tr>
</tbody>
</table>

For further information please contact us at gregs@headland.com.au

Headland Machinery
95 Highbury Road | Burwood VIC 3125 | Australia
Greg Sale | Mobile 0423 865 254 | Phone 1300 592 061
gregs@headland.com.au | www.headland.com.au

Specifications regarding the characteristics and usability of the products do not constitute a warranty of properties. They are intended to serve informative purposes only. Some items of equipment depicted in the illustrations are optional, and are not included in the standard scope of supply. Subsequently, the respective contract of sale shall be binding in respect of the extent of our supplies.