cell4_production manufacturing cells
_Efficient. Automated.
Perfectly coordinated
-components, defined interfaces
and tried-and-tested processes

Tested in a real environment, deployable with maximum flexibility and preconfigured for immediate commissioning in your individual production environment: that is KUKA cell4_production. As a reliable partner, KUKA has always developed global standards to allow customers and partners to achieve intelligent and efficient automation.

cell4_production is the next step in addressing highly dynamic and complex production requirements, especially in the automotive supply industry, and increasing your productivity and efficiency without major integration efforts.

Everything from
a single source

With the cell4_production manufacturing cells, KUKA provides a one-stop solution: preconfigured, perfectly coordinated components and interfaces with a matching process package. With this in mind, KUKA offers a comprehensive range of training courses, services and a wide variety of expansion options.

Ready for
immediate use

Due to the pre-assembled components, the cells can be delivered in a very short time and put into operation extremely quickly. This allows you to start your production without delay and to concentrate your own resources on specific integration tasks.

Uniform global standards

Uniform global standards ensure perfectly harmonized and internationally applicable production concepts and help to sustainably reduce service costs – for example, through global service, local support and training as well as standardized components and interfaces. This is why all cells are available worldwide.

Flexibility at
the highest level

The modular cell concept can be flexibly integrated into existing production processes and environments or quickly and easily adapted to changing production and market requirements. Thanks to the modular design, the cells are transportable and can be quickly and easily relocated in the production environment.

Maximum cost efficiency

The standardized manufacturing cells require only a minimum of floor space and are individually scalable. Thanks to the constant acquisition of process data, they ensure consistent quality even at high production rates – and this with the highest quality standards and a significantly low TCO (Total Cost of Ownership).

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\text{Robot} + \text{KUKA controller} + \text{Positioner} + \text{Cell} + \text{Software} + \text{Service} = \text{cell4_production high-performance manufacturing cells}
\]
Global markets present modern manufacturing with ever increasing challenges for increased quality of products, reduced costs and a high degree of process reliability. On the one hand, the shortest possible commissioning times. On the other, it allows you to leverage open interfaces and a large number of optional modules to adapt the automation in terms of flexibility and efficiency. In an age of ever tougher competition, Global markets present modern manufacturing with ever increasing challenges for sustainable increase the efficiency of your production and secure decisive competitive advantages.

This is because they combine high-performance, optimally coordinated components to form a compact, complete solution. A solution that is perfectly adapted to your tasks and pays off at an early stage.

Whether it concerns adhesive pretreatment, arc welding or premachining, the manufacturing cells are broken into operation areas and are already fully certified according to German, European and international specifications. This ensures, on the one hand, the shortest possible commissioning times. On the other, it allows you to leverage open interfaces and a large number of optional modules to adapt the cell4-production to your specific field of activity down to the smallest detail. The cell4-production incorporates KUKA’s combined production and process experience. This expertise is available to you throughout the cell’s entire life cycle as well as for specific process issues.

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KUKA cell4-premachining combines the highest machining quality with high output and maximum flexibility. It is ideally suited for a wide range of deburring tasks thanks to a powerful KR QUANTEC nano machining robot. Because of the compact design, the cell can be quickly and easily integrated into all standards. It offers a homogeneous, cross-system integration of hardware and software solutions. KUKA cell4-premachining is particularly impressive at the same time, the flexible manufacturing systems must be reliable and efficient – particularly large available workspace and high payload capacity for components and fixtures.

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KUKA cell4-arc midsize … arc welding cell

The module arc welding cell is available in different standard variants with one or two robots and various positions (3, 5 or 6 axes). It can be perfectly adapted to any production volume and almost any welding requirement. Predefined standard welding packages are optionally available. Other welding equipment from leading manufacturers can also be integrated. For quality assurance, the cell additionally offers welded process parameter monitoring and documentation of all process steps if required.

High precision welding of steel and aluminium in various thicknesses. Maximum flexibility, as the cell can be transported by truck and fork lift.

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## Technical data

<table>
<thead>
<tr>
<th>Standard configuration</th>
<th>cell4...arc midsize</th>
<th>cell4...cleaner / primer compact</th>
<th>cell4...premachining modular</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KP3-V2H dual KR</td>
<td>KP1M single KR</td>
<td>KP3-V2V single KR</td>
</tr>
<tr>
<td>Base frame</td>
<td>midsize</td>
<td>compact</td>
<td>compact</td>
</tr>
<tr>
<td>Total size of cell (L x W x H)</td>
<td>approx. 6,930 x 3,840 x 2,910 mm</td>
<td>approx. 2,200 x 4,100 x 2,500 mm</td>
<td>approx. 8,400 x 2,400 x 2,730 mm</td>
</tr>
<tr>
<td>Total weight of cell</td>
<td>approx. 7,500 kg</td>
<td>approx. 2,750 kg</td>
<td>approx. 10,000 kg</td>
</tr>
<tr>
<td>Positioner</td>
<td>KP3-V2H1000 R600 L2000</td>
<td>KP1-V500 M</td>
<td>KP3-V2V1000 R475 HW</td>
</tr>
<tr>
<td>Application</td>
<td>Arc welding</td>
<td>Cleaner / primer</td>
<td>Finishing work on castings</td>
</tr>
</tbody>
</table>

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