### Standard models of FlexArc cells

#### Cells based on K-type positioners

<table>
<thead>
<tr>
<th>Model</th>
<th>Robot</th>
<th>Number of robots</th>
<th>Positioner</th>
<th>Handling capacity</th>
<th>Process equipment package</th>
<th>Safety equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FlexArc K</td>
<td>IRB 1520ID, IRB 1600ID, IRB 2600ID, IRB 4600</td>
<td>1–2 (up to 4 on request)</td>
<td>IRBP K-300, IRBP K-600, IRBP K-1000</td>
<td>Max 1000 kg</td>
<td>Fronius, SKS, ESAB, Kemppi</td>
<td>Complete system of safety features – safety fencing, light curtains, laser scanner, roll doors, safety locks, safety PLC</td>
</tr>
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#### Cells based on R-type positioners

<table>
<thead>
<tr>
<th>Model</th>
<th>Robot</th>
<th>Number of robots</th>
<th>Positioner</th>
<th>Handling capacity</th>
<th>Process equipment package</th>
<th>Safety equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FlexArc R</td>
<td>IRB 1520ID, IRB 1600ID, IRB 2600ID, IRB 4600</td>
<td>1–2 (up to 4 on request)</td>
<td>IRBP R-300, IRBP R-600, IRBP R-1000</td>
<td>Max 1000 kg</td>
<td>Fronius, SKS, ESAB, Kemppi</td>
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#### Cells based on 2 L-type positioners or fixed tables

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<thead>
<tr>
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<th>Positioner</th>
<th>Handling capacity</th>
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</thead>
<tbody>
<tr>
<td>FlexArc 2L</td>
<td>IRB 1520ID, IRB 1600ID, IRB 2600ID, IRB 4600</td>
<td>1</td>
<td>2 × fixed table</td>
<td>Max 300 kg</td>
<td>Fronius, SKS, ESAB, Kemppi</td>
<td>Complete system of safety features – safety fencing, light curtains, laser scanner, roll doors, safety locks, safety PLC</td>
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### Contact us

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[www.abb.cz/robotics](http://www.abb.cz/robotics)
**Virtual FlexArc: The ultimate productivity tool**

A virtual replica of each FlexArc cell is available for free at www.abb.com/remotia.

**BullsEye® - Tool Calibration and Automated Check**

- The patented BullsEye® allows accurate definition and co-ordinated measurement functionality and cell self-diagnosis.
- The Navigator functionality includes cell calibration for off-line generated programs, tooling calibration (including integrated tooling diagnostics).
- The Navigator provides a reference point where the welding head should touch the workplace. The programmed path is the path of the TCP.
- Production Monitoring - The robot system automatically monitors weld lengths and number of welds made on a component and reports with a screen message and a warning light. This was not produced according to the original specification. This enables the operator to take immediate action to repair or reject the faulty component.
- Integrated Error Resolution - At the push of a button, the robot will go to the service pocket, where the operator can service the welding torch. There is no need to enter the cell when a weld error occurs. The operator to take immediate action to repair or reject the faulty component.

**BuildEye® - Tool Calibration and Automated Check**

- The patented BuildEye® allows automatic definition and automatic updating of the Tool Center Point (TCP) and the torch angle. The BuildEye® operates in two modes - "Setup mode" (to define a new tool in the system) and "Quick check" (to periodic check of the tool). The frequency of checking is specified within the program and automatically updated when a deviation is found. These checks/updates result in an improvement in the quality of welded parts and a significant increase in productivity of the cell.

**TCP - Tool Center Point**

- A reference point where the welding head should touch the workplace. The programmed path is the path of the TCP.

**Tools for Quality and Increased Uptime**

- Great efficiency
- General industry: Doors/frames, grids, switch boards, printing units, dashboards, engine cradles, door modules, exhaust systems, brake components, car seats, wheels, axles, lawn mowers, two-wheelers and construction and steel furniture, shopping carts, racks, compressors, air conditioning, safety equipment
- Automotive: doors, safety locks, safety PLCs
- Robotics: welding torch, light curtains, laser scanner, roll-down door control. With minimum training, the user can organize the welding process into a series of work steps. The operator has all the information necessary to keep track of the number of parts produced, cycle times, the number of parts produced, cycle times, the number of welds produced and the individual weld length. Easy implementation makes the FlexArc® standard approach the natural choice for "plug and produce" operations.

**FlexArc® is the Most Effective Solution in your industry**

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