FlexArc® Compact 2 Cell

Main Applications: Arc Welding

A complete range of fully integrated, standardized welding cells

FlexArc robotic welding cells are complete robot systems available in several flexible and versatile, standard modular packages. The cells are delivered ready to weld.

The Compact 2 cell features:
- One IRB 1600 robot equipped with IRC 5 controller
- 2 Station operation
- Perimeter guarding which complies with ANSI/RIA 15.06/1999
- Man/Machine (HMI) interface
- Welding power supply
- Robotic welding torch (air cooled or water cooled)
- Metal mounting base (transportable with fork lift pockets)
- Robotic torch cleaner dresser (optional)

Composed entirely of modular equipment, FlexArc production cells can be used independently or combined together to form mini-assembly zones, an assembly line or a complete workshop.

IRC 5 Robot Controller and FlexPendant™
The IRC 5 is ABB’s fifth generation robot controller and it has set new standards with its modular concept and with its teach pendant unit. The modularity of the IRC 5 is a major step forward in robot controls with a logical split of functions into control and axis drive cabinets. Each module is housed in its own cabinet with an identical footprint so they may be stacked up to three high on the mounting base for minimal floor usage. The IRC 5 has the ability to control multiple robots with the potential to reduce costs, improve quality, increase productivity and expand robot applications.

The FlexPendant is world class with its intuitive windows layout and color touch-screen operation.

Flexibility, Reusability and High Productivity

If your new production parts are modified, added or specifications change, fixtures can be changed or modified on one station or both. The robot can either weld new or different parts and maintain maximum flexibility of the cell.

Each of ABB’s FlexArc Cells is available in a virtual computer format as identical replicas of the real cell in RobotStudio software and can be programmed offline on a personal computer.

FlexArc cells are standard, pre-engineered solutions designed to permit quick, efficient set-up so you are running production in minutes instead of days.

FlexArc cells have produced millions of parts since their introduction and are industry accepted and proven solutions.

From simple, modularized cells with one or two positioners to complete systems, ABB has a standard package to fit every need or ABB will customize cells or systems to meet your manufacturing requirements.
FlexArc® Compact 2 Cell

Specifications

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<tr>
<th>Handling capacity Per Side (Station)</th>
<th>550 Kg, 1100 Lbs</th>
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<tbody>
<tr>
<td>Max. Part and Fixture Dimensions</td>
<td>Each Station - 32&quot; Width x 52&quot; Length</td>
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<tr>
<td>Cell Dimensions: Total plant floor foot print</td>
<td>Length (108&quot; / 2743mm) X Width (73&quot;/ 1828mm)</td>
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<td>Optional Equipment:</td>
<td>BullsEye™, SmarTac™, Torch Cleaning Equipment, Fume Hood (including lighting), Thru-Arc Seam Tracking, RobotStudio™ Offline programming software, Virtual FlexArc software, Wire Cutter</td>
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