DATA SHEET

Arc Welding FlexTrainer

The arc welding FlexTrainer is designed to maximize the required training needs to master robotic welding programming, electrical service, mechanical maintenance, and off-line/on-line software packages. All educational software packages are included with the robot.

Features and Benefits

- IRB 1200 robot is lightweight with robust functionality
- Wheels and folding wings allow the FlexTrainer to fit through large doorways and can be easily moved around
- Controller provides power, accuracy, and motion control
- Welding torch can be easily removed for manual welding or instructional use
- Use welding equipment of choice (Miller, Lincoln, Fronius, etc.)
- ABB donation of 100-seat network license of RobotStudio provided to educators along with access to all ABB PowerPacs ($150k value)
- ABB’s FlexTrainer cells are available in a virtual computer format as identical replicas of the real cell. With RobotStudio software, it can be programmed offline on a personal computer

Safety

- Pedestal feet lock down to prevent movement during use
- Door safety switches shut down robot when open
- Weld shading included on glass
- Self-ventilating fume extraction system

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Base</td>
<td>762 mm x 1985 mm</td>
</tr>
<tr>
<td>Height</td>
<td>2000 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 480 kg</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>Single phase 220/230 V, 50-60 Hz</td>
</tr>
<tr>
<td>Hardware</td>
<td>16 in/out built-in I/O</td>
</tr>
<tr>
<td></td>
<td>UL/ CSA rated</td>
</tr>
</tbody>
</table>

Additional Options

- B&R Touchscreen HMI
  - Great way to interact with the robot while it’s operating
  - View I/O statuses
  - View robot statuses
  - Display and view curriculum materials, PDFs, manuals, and more

Scan the QR code shown to join our academic network:
- Learn more about development and product updates
- Participate in discussions on market trends
- Share projects your school is working on using ABB robots
- And more!
Specifications for the IRB 1200

<table>
<thead>
<tr>
<th>Robot version</th>
<th>Reach (m)</th>
<th>Payload (kg)</th>
<th>Armload (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB 1200-7/0.7</td>
<td>0.7</td>
<td>7</td>
<td>0.3</td>
</tr>
<tr>
<td>IRB 1200-5/0.9</td>
<td>0.9</td>
<td>5</td>
<td>0.3</td>
</tr>
</tbody>
</table>

Number of axes 6

Protection Standard robot IP40 or IP67, Foundry Plus 2 based on IP67, Food Grade Lubricant and Clean Room (ISO class 3) based on IP67

Mounting Any angle

Controller IRC5 Compact/IRC5 Single Cabinet

Integrated signal and power supply 10 signals on wrists

Integrated air supply 4 air on wrist (5 Bar)

Integrated ethernet One 100/10Base-TX ethernet port

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