Auto-Arc Robots

The Auto Arc series of robots are designed specifically for arc welding applications. The robots are equipped with an anti collision torch and through flange design allowing 360 degree rotation in either direction. This feature allows the robot to weld 360 degrees around pipe or any weldment with minimal robot manipulation. The robots all come standard with an ethercat servo system which allows lightning fast communication between the controller and servo system. All wiring is encased in protective loom to keep debris and sparks free from wiring, which is essential in welding applications.
Welding Robots
Auto-Arc 1506k-1806k

Standard Specs

<table>
<thead>
<tr>
<th></th>
<th>1506k</th>
<th>1806k</th>
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</thead>
<tbody>
<tr>
<td>Degrees of Freedom</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>MM of Reach</td>
<td>1500mm</td>
<td>1800mm</td>
</tr>
<tr>
<td>Payload</td>
<td>6kg</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/-0.05mm</td>
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<tr>
<td>Weight</td>
<td>164 kg</td>
<td>174 kg</td>
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<tr>
<td>6th Axis</td>
<td>Hollow Type 360 deg rot</td>
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<tr>
<td>Application</td>
<td>Welding</td>
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<tr>
<td>Memory</td>
<td>USB</td>
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</tr>
<tr>
<td>Teach Pendant</td>
<td>Color-Touch</td>
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<tr>
<td>OS</td>
<td>Windows</td>
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</tr>
<tr>
<td>Torch</td>
<td>Anti-Collision</td>
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<tr>
<td>Wire Harness</td>
<td>Fully Enclosed</td>
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</tr>
<tr>
<td>Installation</td>
<td>Floor, Ceiling</td>
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</tr>
<tr>
<td>J1</td>
<td>170+/-</td>
<td></td>
</tr>
<tr>
<td>J2</td>
<td>-160 --- +80</td>
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</tr>
<tr>
<td>J3</td>
<td>-85 --- +90</td>
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<tr>
<td>J4</td>
<td>+360</td>
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<tr>
<td>J5</td>
<td>-100 --- +120</td>
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<tr>
<td>J6</td>
<td>+360</td>
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Rice Automation
166 Hwy V
Harviell, MO 63945
Phone-573-989-6265
Web-www.riceautomation.com
The S100 Controller boasts state of the art ethercat communication between the controller and servo system. The servo system also has individual drives for each axis giving freedom to add or replace with ease. All Servo-Encoder cables plug into rear of cabinet and rear of robot keeping a standard cable in the event of damage. Also, the S100 comes standard with a 16 DI/DO Card that is prewired to rear plugs of cabinet. Capable of digital or analog communication to the welder. The S100 also support touch sensing, through arc seam tracking, and weaving just to name a few. The teach pendant has an inviting feel with easy point to point programming to make the learning curve minimal.
Single Zone Cell Specs

- Single Zone Design
- Heavy Tubular Frame
- Machinery Floor Mounts
- 4” Tubular Fixture Table 1/4” Top 4”x4” Hole Pattern (36”x89”)
- 6’ Tall Solid Steel Walls
- Torch Clean Out Port Cut into Wall
- Safety Light Curtain integrated into controller
- Robot Controller & Welder Mounted on rear for easy movement
- Single Power Point
- All Power cables, ground cables, and wire conduit routed
- Requires minimal floor space
- Comes 100% Ready to weld
- Sliding Rear Door On Safety Interlock
- All Safety Components wired in standalone box
**Auto Arc**

**Welding Cell**

**Dual Zone Cell**

**Dual Zone Cell Specs**

- Dual Zone Design
- Heavy Tubular Frame
- Machinery Floor Mounts
- Dual 4” Tubular Fixture Table 1/4” Top 4”x4” Hole Pattern (36”x89”)
- 6’ Tall Solid Steel Walls
- HMI Interface With Program Starting and Safety Interface overview
- Safety Light Curtain integrated into controller
- Robot Controller & Welder Mounted on rear for easy movement
- Single Power Point
- All Power cables, ground cables, and wire conduit routed in covered cable tray
- Zoned Safety System allowing robot and operator to work safely together
- Comes 100% Ready to weld
- Sliding Door On Safety Interlock for robot maintenance
- All Safety Components wired in standalone box
Options

Head Stock/Tail Stock

All Capacities Available

Rotate any part or fixture for optimal weld position. All sizes available.

RTU-Robot Transfer Units

Used when you want the robot to reach multiple fixtures. Can work on both sides of track.
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