Welding Automation
PL1100HW Laser Welding System

Integrated Solutions on One Skid
- Servo positioners
- Multiple laser source options
- Choice of process head
- Autogenous, hotwire, coldwire, or hybrid
- Single 480V electrical disconnect
- Chiller included on separate skid

Manufacturing Safety Enclosure
- Class 1 Rating
- No separate structure
- Easy installation
- C fume hood standard, filtration units available
- Designed to bolt to your floor and produce parts

All From Miller
- The right laser equipment for your application
- Process expertise – see your parts welded before you buy
- Ongoing support
- 24/7 Tech Hotline
- Proven PerformArc reliability
- 1 Year Warranty

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### Dimensional Specifications*

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell length</td>
<td>5182 mm (204&quot;)</td>
</tr>
<tr>
<td>Cell width</td>
<td>2896 mm (114&quot;)</td>
</tr>
<tr>
<td>Cell height</td>
<td>2286 mm (90&quot;)</td>
</tr>
<tr>
<td>Outboard rotation CL from floor</td>
<td>1076 mm (42&quot;)</td>
</tr>
<tr>
<td>Headstock-tailstock span</td>
<td>1524 mm (60&quot;)</td>
</tr>
<tr>
<td>Cell width including doors</td>
<td>3118 mm (122&quot;)</td>
</tr>
<tr>
<td>Fixture rotation diameter</td>
<td>864 mm (34&quot;)</td>
</tr>
<tr>
<td>Cell front opening (max)</td>
<td>2591 mm (102&quot;)</td>
</tr>
<tr>
<td>Penetration distance</td>
<td>470 mm (19&quot;)</td>
</tr>
<tr>
<td>Rotation diameter</td>
<td>2667 mm (108&quot;)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>3357 kg (7400 lb)</td>
</tr>
</tbody>
</table>

*Note: All dimensions are approximate.

### Standard Specifications

**Fully Integrated Miller Welding Automation Total Solution**

- 8 kg arc welding robot
- 64 bit controller with TFT color display teaching pendant utilizing Windows® CE
- High speed main indexing servo positioner
- (2) Secondary rotation axis servo positioner 500kg
- Fully integrated laser & optics per customer spec
- Class I Laser safe-enclosure
- Miller designed and manufactured total productivity system
- Resume function, shifting function, online help function

### Positioner General Technical Specifications

#### Main sweep axis

- **Model**: Servo Positioner
- **Motor type**: 3.5 kW AC Digital Servo
- **Control type**: Servo Control
- **Rotation time (180 deg index)**: t=3.5 sec
- **Through hole (for utility pass through)**: 120 mm (4.7")

#### Secondary axis (2)

- **Model**: 500 kg
- **Motor type**: 1 kW AC Digital Servo
- **Control type**: Servo Control
- **Payload (per side)**: 500 kg (1100 lb)
- **Payload offset (from positioner CL)**: Please consult manual
- **Through hole (for utility pass through)**: 55 mm (2.16")

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