2-Axis Positioners

Efficient and precise welding depends on the right positioning.

*PrestonEastin* two-axis welding positioners are ideal for construction, OEM, oil & gas, and contract manufacturing applications where increased efficiency and safe operation is strongly desired. Our robust product line delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

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### Positioner Models

<table>
<thead>
<tr>
<th>Positioner</th>
<th>Load Capacity</th>
<th>Overhang Distance</th>
<th>Torque</th>
<th>Torque RPM</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA-1 MT</td>
<td>100 lbs. @ 1&quot;</td>
<td>N/A</td>
<td>102 N/A</td>
<td>0.3-9.0</td>
<td>12&quot; Diameter</td>
</tr>
<tr>
<td>PA-2 MT</td>
<td>250 lbs. @ 2&quot;</td>
<td>N/A</td>
<td>625 N/A</td>
<td>0.3-7.8</td>
<td>16&quot; Diameter</td>
</tr>
<tr>
<td>PA-5 MT</td>
<td>500 lbs. @ 4&quot;</td>
<td>N/A</td>
<td>2,000 N/A</td>
<td>0.2-3.7</td>
<td>22&quot; Diameter</td>
</tr>
<tr>
<td>PA-5 PT</td>
<td>500 lbs. @ 4&quot;</td>
<td>3.81&quot;</td>
<td>2,000 N/A</td>
<td>0.2-3.7</td>
<td>22&quot; Diameter</td>
</tr>
<tr>
<td>PA-15 HD4</td>
<td>1500 lbs. @ 4&quot;</td>
<td>4.25&quot;</td>
<td>6,000 N/A</td>
<td>0.12-3.6</td>
<td>24&quot; Diameter</td>
</tr>
<tr>
<td>PE-30 HD6</td>
<td>3000 lbs. @ 6&quot;</td>
<td>5&quot;</td>
<td>18,000 N/A</td>
<td>0.073-2.8</td>
<td>30&quot; X 30&quot;</td>
</tr>
<tr>
<td>PE-45 HD12</td>
<td>4500 lbs. @ 12&quot;</td>
<td>6&quot;</td>
<td>54,000 N/A</td>
<td>0.073-1.46</td>
<td>42&quot; X 42&quot;</td>
</tr>
<tr>
<td>PE-60 HD12</td>
<td>6000 lbs. @ 12&quot;</td>
<td>7&quot;</td>
<td>72,000 N/A</td>
<td>0.2-2.8</td>
<td>42&quot; X 42&quot;</td>
</tr>
<tr>
<td>PA-100 HD12</td>
<td>10,000 lbs. @ 12&quot;</td>
<td>9&quot;</td>
<td>120,000 N/A</td>
<td>0.03-.86</td>
<td>54&quot; X 54&quot;</td>
</tr>
<tr>
<td>PA-160 HD12</td>
<td>16,000 lbs. @ 12&quot;</td>
<td>9.25&quot;</td>
<td>192,000 N/A</td>
<td>0.03-.68</td>
<td>60&quot; X 60&quot;</td>
</tr>
<tr>
<td>PE-240 HD12</td>
<td>24,000 lbs. @ 12&quot;</td>
<td>9.75&quot;</td>
<td>288,000 N/A</td>
<td>0.03-.53</td>
<td>60&quot; X 60&quot;</td>
</tr>
</tbody>
</table>

### Rotational Torque Calculation

1. Determine total weight of workpiece, including fixtures.
2. Calculate the load center of gravity distance (LOAD C.G.) in inches, from center of table.
3. Multiply information from step 1 times the information in step 2 for required rotational torque.
4. Compare the required rotational torque with the rated rotational torque from the table.
5. Select a positioner with a rotational torque rating equal to or greater than the required rotational torque.

\[
\text{LOAD} \times \text{DISTANCE} = \text{ROTATIONAL TORQUE REQUIREMENT} \\
(\text{LBS.}) \times (\text{INCHES}) = (\text{LBS. – INCHES})
\]

### Tilt Torque Calculation

1. Determine total weight of workpiece, including fixtures.
2. Calculate the load center of gravity distance (LOAD C.G.) in inches, from the table face, including the fixture.
3. Add inherent overhang distance (INH. OH.) in inches to step 2.
4. Multiply information from step 1 times the sum of step 2 and step 3 to determine the required tilt torque.
5. Compare the required tilt torque with the rated tilt torque from the table below.
6. Select a positioner with a tilt torque rating equal to or greater than the required tilt torque.

\[
\text{LOAD} \times \text{DISTANCE} + \text{INHERENT OVERHANG} = \text{TORQUE RATING} \\
(\text{LBS.}) \times (\text{INCHES}) + (\text{INH. OH.}) = (\text{LBS. – INCHES})
\]
# Positioner Models

<table>
<thead>
<tr>
<th>Positioner Model</th>
<th>Load Capacity</th>
<th>Inherent Overhang</th>
<th>Rotational Torque</th>
<th>Tilt Torque</th>
<th>RPM</th>
<th>Table Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA-1 MT</td>
<td>100 lbs. @ 1&quot;</td>
<td>N/A</td>
<td>102</td>
<td>N/A</td>
<td>0.3-9.0</td>
<td>12&quot; Diameter</td>
</tr>
<tr>
<td>PA-2 MT</td>
<td>250 lbs. @ 2&quot;</td>
<td>N/A</td>
<td>625</td>
<td>N/A</td>
<td>0.3-7.8</td>
<td>16&quot; Diameter</td>
</tr>
<tr>
<td>PA-5 MT</td>
<td>500 lbs. @ 4&quot;</td>
<td>N/A</td>
<td>2,000</td>
<td>N/A</td>
<td>0.2-3.7</td>
<td>22&quot; Diameter</td>
</tr>
<tr>
<td>PA-5 PT</td>
<td>500 lbs. @ 4&quot;</td>
<td>3.81&quot;</td>
<td>2,000</td>
<td>3,905</td>
<td>.02-3.7</td>
<td>22&quot; Diameter</td>
</tr>
<tr>
<td>PA-15 HD4</td>
<td>1500 lbs. @ 4&quot;</td>
<td>4.25&quot;</td>
<td>6,000</td>
<td>12,375</td>
<td>.12-3.6</td>
<td>24&quot; Diameter</td>
</tr>
<tr>
<td>PE-30 HD6</td>
<td>3000 lbs. @ 6&quot;</td>
<td>5&quot;</td>
<td>18,000</td>
<td>33,000</td>
<td>0.2-2.8</td>
<td>30&quot; X 30&quot;</td>
</tr>
<tr>
<td>PE-45 HD12</td>
<td>4500 lbs. @ 12&quot;</td>
<td>6&quot;</td>
<td>54,000</td>
<td>81,000</td>
<td>.073-1.46</td>
<td>42&quot; X 42&quot;</td>
</tr>
<tr>
<td>PE-60 HD12</td>
<td>6000 lbs. @ 12&quot;</td>
<td>7&quot;</td>
<td>72,000</td>
<td>114,000</td>
<td>0.2-2.8</td>
<td>42&quot; X 42&quot;</td>
</tr>
<tr>
<td>PA-100 HD12</td>
<td>10,000 lbs. @ 12&quot;</td>
<td>9&quot;</td>
<td>120,000</td>
<td>210,000</td>
<td>.03-.86</td>
<td>54&quot; X 54&quot;</td>
</tr>
<tr>
<td>PA-160 HD12</td>
<td>16,000 lbs. @ 12&quot;</td>
<td>9.25&quot;</td>
<td>192,000</td>
<td>340,000</td>
<td>.03-.68</td>
<td>60&quot; X 60&quot;</td>
</tr>
<tr>
<td>PE-240 HD12</td>
<td>24,000 lbs. @ 12&quot;</td>
<td>9.75&quot;</td>
<td>288,000</td>
<td>522,000</td>
<td>.03-.53</td>
<td>60&quot; X 60&quot;</td>
</tr>
</tbody>
</table>

## Sizing Your Positioner

### Rotational Torque Calculation

1. Determine total weight of work piece, including fixtures.
2. Calculate the load center of gravity distance (LOAD C.G.) in inches, from center of table.
3. Multiply information from step 1 times the information in step 2 for required rotational torque.
4. Compare the required rotational torque with the rated rotational torque from the table.
5. Select a positioner with a rotational torque rating equal to or greater than the required rotational torque.

\[
\text{LOAD} \times \text{DISTANCE} = \text{ROTATIONAL TORQUE REQUIREMENT}
\]

### Tilt Torque Calculation

1. Determine total weight of work piece, including fixtures.
2. Calculate the load center of gravity distance (LOAD C.G.) in inches, from the table face, including the fixture.
3. Add inherent overhang distance (INH. OH.) in inches to step 2.
4. Multiply information from step 1 times the sum of step 2 and step 3 to determine the required tilt torque.
5. Compare the required tilt torque with the rated tilt torque from the table below.
6. Select a positioner with a tilt torque rating equal to or greater than the required tilt torque.

\[
\text{LOAD} \times \text{DISTANCE} + \text{INHERENT OVERHANG} = \text{TORQUE RATING}
\]

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Preston Eastin
The PA-1 MT, 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

### PRESTON-EASTIN MODEL PA-1 MT PRODUCT DATA

**Capacity**
- **Horizontal Weight**: 200 pounds
- **Vertical Weight**: 100 pounds
- **Offset of C.G. from table**: 1”
- **Eccentricity of C.G. from axis**: 1”

**Rotation**
- **Motor**: Variable speed DC 1/12HP
- **Rotational Torque**: 102 inch-pounds
- **Speed range**: 0.3 to 9.0 RPM

**Tilt**
- **Range**: 90° forward tilt
- **Actuation**: 4-1/2” hand wheel with self-locking worm drive

**Table**
- **Size**: 12” diameter, ground, with four radial T-slots
- **Mounting bolt size**: 5/16”
- **Grounding**: 250 Amp mechanical ground

**Controls**
- **Control Panel**: Panel built-in to positioner frame
- **Speed Control**: One-turn potentiometer
- **Directional Control**: Two-position selector switch
- **Power**: 115V, 2Amp, Single-Phase, 60 Hz

**Options**
- **Overload Protection**: On/Off switch with fuse
- **Foot Switch**: Remote start/stop with 6 ft. cable
- **Additional Table Speeds**: 0.2 - 4.5 and 0.6 - 18 RPM
- **Through Spindle Gas Purging**
- **Heavy-duty On-Off Foot Switch**
- **Foot Switch Guard**
- **Variable Speed Foot Switch**
- **Spin-loc Chucks**
- **3-Jaw Scroll Chucks**

**Weight**
- **Shipping weight**: 56 pounds

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The PA-1 MT, 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications.

Drawings show optional leg kit
The PA-2 MT, 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

### PRESTON-EASTIN MODEL PA-2 MT PRODUCT DATA

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Tilt</th>
<th>Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight: 250 pounds</td>
<td>Range: 135° forward tilt</td>
<td>Control Panel: Panel built-in to positioner frame</td>
</tr>
<tr>
<td>Offset of C.G. from table: 2.5&quot;</td>
<td>Tilt Torque: Manual</td>
<td>Speed Control: One-turn potentiometer</td>
</tr>
<tr>
<td>Eccentricity of C.G. from axis: 2&quot;</td>
<td>Actuation: 6&quot; hand wheel with self-locking worm drive</td>
<td>Directional Control: Two-position selector switch</td>
</tr>
</tbody>
</table>

### Rotation

- **Motor:** Variable speed DC 1/8 HP
- **Rotational Torque:** 500 inch-pounds
- **Speed Range:** 0.3 to 7.9 RPM
- **Speed Accuracy:** 3% of base speed
- **Safety:** Drive reducer is self-locking

### Weight

- **Shipping weight:** 125 pounds

### Table

- **Size:** 16" round with four radial T-slots
- **Mounting bolt size:** 3/8"
- **Bearings:** Timken tapered roller bearings
- **Grounding:** 600 Amp spring-loaded mechanical ground

### Tilt

- **Range:** 135° forward tilt
- **Tilt Torque:** Manual
- **Actuation:** 6" hand wheel with self-locking worm drive

### Controls

- **Control Panel:** Panel built-in to positioner frame
- **Speed Control:** One-turn potentiometer
- **Directional Control:** Two-position selector switch
- **Power:** 115V, 2 Amp, Single-Phase, 60 Hz
- **Overload Protection:** Fuse
- **Foot Switch:** Remote start/stop with 6 ft. cable
The PA-5 MT, 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

### PRESTON-EASTIN MODEL PA-5 MT PRODUCT DATA

**Capacity**
- **Weight:** 500 pounds
- **Offset of C.G. from table:** 4”
- **Eccentricity of C.G. from axis:** 4”

**Rotation**
- **Motor:** Variable speed DC 1/4 HP
- **Rotational Torque:** 2000 inch-pounds
- **Speed Range:** 0.2 to 3.7 RPM
- **Speed Accuracy:** 3% of base speed
- **Safety:** Drive reducer is self-locking

**Weight**
- **Shipping weight:** 365 pounds

**Tilt**
- **Range:** 135° forward tilt
- **Tilt Torque:** Manual
- **Actuation:** 8” hand wheel with self-locking worm drive

**Table**
- **Size:** 22” round with four radial T-slots
- **Mounting bolt size:** 3/8”
- **Bearings:** Timken tapered roller bearings
- **Grounding:** 600 Amp spring-loaded mechanical ground

**Controls**
- **Control Panel:** Panel built-in to positioner frame
- **Speed Control:** One-turn potentiometer
- **Directional Control:** Two-position selector switch
- **Power:** 115V, 15 Amp, Single-Phase, 60 Hz
- **Overload Protection:** Circuit breaker
- **Foot Switch:** Remote start/stop with 6 ft. cable

**Options**
- **Power Tilt**

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The PA-5 MT, 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.
PA-15 HD4, 2-Axis Welding Positioner

The PA-15 HD4 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

PRESTON-EASTIN MODEL PA-15 HD4 PRODUCT DATA

**Capacity**
- **Weight**: 1,500 pounds
- **Offset of C.G. from table**: 4”
- **Eccentricity of C.G. from axis**: 4”

**Rotation**
- **Motor**: Variable speed DC 1/2 HP
- **Speed range**: 0.12 to 3.6 RPM
- **Speed accuracy**: 2% of set speed

**Tilt**
- **Motor**: DC gearmotor 1/4 HP
- **Range**: 0° - 135° forward tilt
- **Inherent Overhang**: 4.25”

**Table**
- **Size**: 24” diameter with four radial T-slots
- **Mounting bolt size**: 1/2”
- **Bearings**: Tapered roller bearings
- **Ground**: 600 Amp spring loaded mechanical ground

**Elevation**
- **Adjustment**: Manual
- **Range**: 22-1/4” to 34-1/4” in 4” increments (table top)

**Weight**
- **Shipping weight**: 750 pounds

**Controls**
- **Pendant**: Remote pendant, 115 V, with 30 ft. cable
- **Rotation Speed**: One-turn potentiometer
- **Rotation Mode**: Two-position selector switch, WELD/RAPID
- **Rotation Direction**: Three-position selector switch, FWD/OFF/REV
- **Rotation Control**: START and STOP push buttons
- **Tilt Control**: Three-position selector switch, UP/OFF/DOWN
- **Power**: 115V, 20 Amp, Single Phase, 60 Hz
- **Overload Protection**: Circuit breaker
- **Foot Switch**: Optional

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**NEED ILLUSTRATIONS**

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Preston Eastin
The PE-30 HD6 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury. The PE-30 HD6 is extremely versatile as it operates on a 120V power source that is commonly provided by an ordinary wall outlet.

### PRESTON-EASTIN MODEL PE-30 HD6 PRODUCT DATA

#### Capacity
- **Weight**: 3,000 pounds
- **Offset of C.G. from table**: 6"
- **Eccentricity of C.G. from axis**: 6"

#### Rotation
- **Motor**: Variable speed AC 1HP
- **Speed range**: 0.2 to 2.8 RPM
- **Speed accuracy**: 2% of set speed

#### Tilt
- **Motor**: AC brake motor 1 HP
- **Range**: 0° - 135° forward tilt

#### Table
- **Size**: 30” square with four radial T-slots
- **Mounting bolt size**: 1/2” - 13"
- **Bearings**: Tapered roller bearings

#### Elevation
- **Adjustment**: Manual
- **Range**: 32-3/4” to 44-3/4” in 4” increments (table top)

#### Controls
- **Pendant**: Remote pendant with 30 ft. cable

#### Electricals
- **Ground**: (2) each, 600 Amp spring loaded mechanical ground
- **Power**: 120V Single Phase, 60 Hz, 230V/460V Optional
- **Table Drive**: Variable Frequency Drive (VFD)
- **Tilt Drive**: Variable Frequency Drive (VFD)
- **Overload Protection**: Circuit breaker
- **Foot Switch**: Optional

#### Weight
- **Shipping weight**: 1,800 pounds

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### Symbol Description Dimensions

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAL</td>
<td>Overall Length</td>
<td>57-1/2”</td>
</tr>
<tr>
<td>OAW</td>
<td>Overall Width</td>
<td>43-1/2”</td>
</tr>
<tr>
<td>TH</td>
<td>Table Height</td>
<td>32-3/4”</td>
</tr>
<tr>
<td>TAH</td>
<td>Tilt Axis Height</td>
<td>27-3/4”</td>
</tr>
<tr>
<td>IO</td>
<td>Inherent Overhang</td>
<td>5”</td>
</tr>
<tr>
<td>OCG</td>
<td>Offset Center of Gravity</td>
<td>6”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS</td>
<td>Table Size</td>
<td>30”</td>
</tr>
<tr>
<td>ABPL</td>
<td>Anchor Bolt Pattern Length</td>
<td>43”</td>
</tr>
<tr>
<td>ABPW</td>
<td>Anchor Bolt Pattern Width</td>
<td>30”</td>
</tr>
<tr>
<td>THR</td>
<td>T-Nut Thread</td>
<td>1/2”</td>
</tr>
<tr>
<td>TN</td>
<td>T-Nut Quantity</td>
<td>4”</td>
</tr>
</tbody>
</table>

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**Preston Eastin**
The PE-45 HD12 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

### PRESTON-EASTIN MODEL PE-45 HD12 PRODUCT DATA

#### Capacity
- Weight: 4,500 pounds
- Offset of C.G. from table: 12”
- Eccentricity of C.G. from axis: 12”

#### Rotation
- Motor: Variable speed AC 2HP
- Speed range: 0.7 to 1.45 RPM
- Speed accuracy: 2% of set speed

#### Tilt
- Motor: AC brake motor 2 HP
- Range: 0˚ - 135˚ forward tilt

#### Table
- Size: 42” square with four radial T-slots
- Mounting bolt size: 3/4”
- Bearings: Tapered roller bearings

#### Elevation
- Adjustment: Manual
- Range: 38-5/8” to 53-5/8” in 5” increments (table top)

#### Controls
- Pendant: Remote pendant with 30 ft. cable

#### Electricals
- Ground: (2) each, 600 Amp spring loaded mechanical ground
- Power: 480V Three Phase, 60 Hz
- Overload Protection: Fused disconnect
- Foot Switch: Optional
- Weight: Shipping weight: 2,700 pounds

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<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAL</td>
<td>Overall Length</td>
<td>68-7/16”</td>
</tr>
<tr>
<td>OAW</td>
<td>Overall Width</td>
<td>51-9/16”</td>
</tr>
<tr>
<td>TH</td>
<td>Table Height</td>
<td>38-5/8”</td>
</tr>
<tr>
<td>TAH</td>
<td>Tilt Axis Height</td>
<td>32-1/2”</td>
</tr>
<tr>
<td>IO</td>
<td>Inherent Overhang</td>
<td>6-1/8”</td>
</tr>
<tr>
<td>OCG</td>
<td>Offset Center of Gravity</td>
<td>12”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS</td>
<td>Table Size</td>
<td>42”</td>
</tr>
<tr>
<td>ABPL</td>
<td>Anchor Bolt Pattern Length</td>
<td>64”</td>
</tr>
<tr>
<td>ABPW</td>
<td>Anchor Bolt Pattern Width</td>
<td>35-1/16”</td>
</tr>
<tr>
<td>THR</td>
<td>T-Nut Thread</td>
<td>3/4”-10”</td>
</tr>
<tr>
<td>TN</td>
<td>T-Nut Quantity</td>
<td>4”</td>
</tr>
</tbody>
</table>

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The PE-45 HD12 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.
The PE-60 HD12 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

<table>
<thead>
<tr>
<th><strong>Symbol</strong></th>
<th><strong>Description</strong></th>
<th><strong>Dimensions</strong></th>
<th><strong>Symbol</strong></th>
<th><strong>Description</strong></th>
<th><strong>Dimensions</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>OAL</td>
<td>Overall Length</td>
<td>86-1/8&quot;</td>
<td>TS</td>
<td>Table Size</td>
<td>42&quot;</td>
</tr>
<tr>
<td>OAW</td>
<td>Overall Width</td>
<td>48-3/4&quot;</td>
<td>ABPL</td>
<td>Anchor Bolt Pattern Length</td>
<td>64&quot;</td>
</tr>
<tr>
<td>TH</td>
<td>Table Height</td>
<td>37-1/8&quot;</td>
<td>ABPW</td>
<td>Anchor Bolt Pattern Width</td>
<td>44-3/4&quot;</td>
</tr>
<tr>
<td>TAH</td>
<td>Tilt Axis Height</td>
<td>30-1/8&quot;</td>
<td>THR</td>
<td>T-Nut Thread</td>
<td>3/4&quot;-10&quot;</td>
</tr>
<tr>
<td>IO</td>
<td>Inherent Overhang</td>
<td>7&quot;</td>
<td>TN</td>
<td>T-Nut Quantity</td>
<td>4&quot;</td>
</tr>
<tr>
<td>OCG</td>
<td>Offset Center of Gravity</td>
<td>12&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Electricals**
- **Ground**: (2) each, 600 Amp spring loaded mechanical ground
- **Power**: 480V Three Phase, 60 Hz
- **Table Drive**: Variable Frequency Drive (VFD)
- **Tilt Drive**: Variable Frequency Drive (VFD)
- **Overload Protection**: Circuit breaker
- **Foot Switch**: Optional

**Weight**
- **Shipping weight**: 3,400 pounds

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The PE-60 HD12 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.
The PA-100 HD12 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.
PE-160 HD12, 2-Axis Welding Positioner

The PE-160 HD12 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

<table>
<thead>
<tr>
<th>PRESTON-EASTIN MODEL PE-160 HD12 PRODUCT DATA</th>
</tr>
</thead>
</table>

**Capacity**
- **Weight:** 16,000 pounds
- **Offset of C.G. from table:** 12”
- **Eccentricity of C.G. from axis:** 12”

**Rotation**
- **Motor:** Variable speed AC 5HP
- **Speed range:** 0.3 to 0.68 RPM
- **Speed accuracy:** 2% of set speed

**Tilt**
- **Motor:** AC brake motor 5 HP
- **Range:** 0° - 135° forward tilt

**Table**
- **Size:** 60” square with four radial T-slots
- **Mounting bolt size:** 3/4” - 10”
- **Bearings:** Tapered roller bearings

**Elevation**
- **Adjustment:** Manual
- **Range:** 49” to 73” in 6” increments (table top)

**Controls**
- **Pendant:** Remote pendant with 30 ft. cable

**Electricals**
- **Ground:** (2) each, 600 Amp spring loaded mechanical ground
- **Power:** 480V Three Phase, 60 Hz
- **Table Drive:** Variable Frequency Drive (VFD)
- **Tilt Drive:** Variable Frequency Drive (VFD)
- **Overload Protection:** Circuit breaker
- **Foot Switch:** Optional

**Weight**
- **Shipping weight:** 12,400 pounds

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<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
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<tbody>
<tr>
<td>OAL</td>
<td>Overall Length</td>
<td>109-5/16”</td>
<td>TS</td>
<td>Table Size</td>
<td>60”</td>
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<tr>
<td>OAW</td>
<td>Overall Width</td>
<td>66-3/4”</td>
<td>ABPL</td>
<td>Anchor Bolt Pattern Length</td>
<td>82”</td>
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<tr>
<td>TH</td>
<td>Table Height</td>
<td>49-7/8”</td>
<td>ABPW</td>
<td>Anchor Bolt Pattern Width</td>
<td>62-3/4”</td>
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<tr>
<td>TAH</td>
<td>Tilt Axis Height</td>
<td>40-1/8”</td>
<td>THR</td>
<td>T-Nut Thread</td>
<td>3/4”-10”</td>
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<tr>
<td>IO</td>
<td>Inherent Overhang</td>
<td>9-3/4”</td>
<td>TN</td>
<td>T-Nut Quantity</td>
<td>4”</td>
</tr>
<tr>
<td>OCG</td>
<td>Offset Center of Gravity</td>
<td>12”</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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Preston Eastin
The PA-240 HD12 2-Axis Welding Positioner is ideal for construction, OEM, oil & gas, and contract manufacturing applications. It delivers precise, repeatable, and safe operation. Better positioning yields higher quality welds, improved productivity, and a lower risk of operator injury.

**PRESTON-EASTIN MODEL PA-240 HD12 PRODUCT DATA**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
<th>Symbol</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAL</td>
<td>Overall Length</td>
<td>109-5/16”</td>
<td>TS</td>
<td>Table Size</td>
<td>66”</td>
</tr>
<tr>
<td>OAW</td>
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<td>ABPL</td>
<td>Anchor Bolt Pattern Length</td>
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<tr>
<td>TH</td>
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<td>ABPW</td>
<td>Anchor Bolt Pattern Width</td>
<td>64-3/4”</td>
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<tr>
<td>TAH</td>
<td>Tilt Axis Height</td>
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<td>THR</td>
<td>T-Nut Thread</td>
<td>3/4”-10”</td>
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<tr>
<td>IO</td>
<td>Inherent Overhang</td>
<td>9-1/4”</td>
<td>TN</td>
<td>T-Nut Quantity</td>
<td>4”</td>
</tr>
<tr>
<td>OCG</td>
<td>Offset Center of Gravity</td>
<td>12”</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Capacity
- **Weight:** 24,000 pounds
- **Offset of C.G. from table:** 12”
- **Eccentricity of C.G. from axis:** 12”

### Rotation
- **Motor:** Variable speed DC 5HP
- **Speed range:** 0.02 to 0.59 RPM
- **Speed accuracy:** 2% of set speed

### Tilt
- **Motor:** AC brake motor 7.5 HP
- **Range:** 0˚ - 135˚ forward tilt

### Table
- **Size:** 60” square with four radial T-slots
- **Mounting bolt size:** 3/4” - 10”
- **Bearings:** Tapered roller bearings

### Elevation
- **Adjustment:** Manual
- **Range:** 60-1/4” to 84-1/4” in 6” increments (table top)

### Controls
- **Pendant:** Remote pendant with 30 ft. cable

### Electricals
- **Ground:** (2) each, 600 Amp spring loaded mechanical ground
- **Power:** 480V Three Phase, 60 Hz
- **Table Drive:** Variable Frequency Drive (VFD)
- **Tilt Drive:** Variable Frequency Drive (VFD)
- **Overload Protection:** Circuit breaker
- **Foot Switch:** Optional

### Weight
- **Shipping weight:** 12,500 pounds
**Options**

*Foot Switches, Wireless Foot Switches, Wireless Pendants (1 or 2 Axis), Dial-A-Matic*

**WIRELESS PENDANT**

NEW Product!

- WP100A (1 Axis)
- WP100B (2 Axis)

**FOOT SWITCHES**

Preston-Eastin offers several optional foot switches for equipment control.

- **VFS-20** Variable Speed Foot Switch
- **SFS-20** On/Off Foot Switch
- **RFS-20** Forward/Reverse Foot Switch

**CHUCKS**

Spin-Lock
- PSL-7-2
- PSL-7-3
- PSL-12-3

PC-15 Self-Centering

Gripper
- PC-20A
- PC-30A
- PC-42B
- PC-48C
- PC-60C

Self-Centering
- PC-8
- PC-12
- PC-15
- PC-24

**Electrical Controls**

**Electrical Panel**

- Regulate Speed
- Smoother Performance
- Feedback for Troubleshooting

**Single Phase and 3 Phase**

Available on Select Models

**Non-Conductive Pendant Standard**
**PrestonEastin** designs and manufactures a complete line of manual, powered, and robotic positioning systems and equipment. Since its inception in 1972, **PrestonEastin** has provided innovative solutions to positioning requirements serving the welding, aerospace, aviation, automotive, transportation, ship building, material handling, thermal spray, and heavy equipment manufacturing industries.

At our new engineering and manufacturing facility in Tulsa, Oklahoma, we design and manufacture positioning solutions for precision operations, while continually upholding foundational principles of safety and reliability. We manufacture our products to afford our customers many years of safe and dependable operation.

We understand our customers' needs, and quickly respond with proven solutions to meet positioning requirements. Dedicated to continuous improvement of our products and services to ensure long term continued customer satisfaction worldwide.

**Quality Policy**

**PrestonEastin** is committed to meet the expectations and requirements of our customers, suppliers, co-workers, and all interested parties as well as continuously improve.