P-260 Computerized Welding Machine

Fully customizable automated GMAW and Pulsed-GMAW welding with consistent results

The P-260 Computerized Welding Machine is a single torch external welding system offers consistent welding parameter and quality control. With 32 programmable welding passes and vertical tracking which maintains consistency around the weld – perfection couldn’t come any easier.

The device is a self-contained platform incorporating a travel carriage, wire feed motor and wire spool, computer control box, and an adjustable welding head. It’s suitable for Gas metal arc welding (GMAW) or Pulsed-GMAW processes and its versatile design allows it to be widely compatible with most constant-voltage or pulsed-current welding sources including the new inverters.

The P-260 has the ability to perform external root pass welding in addition to standard hot, fill, and cap pass welding.

The onboard computer allows for the precise control of many welding parameters such as: volts, amps, travel speed, oscillation, dwell times, etc. A secure data key prevents unauthorized weld parameter variables which means you know your setup will be correct when you come back to it. The data key also keeps a real-time log of all weld data for further processing in Microsoft Excel.
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>16.5” (419mm)</td>
</tr>
<tr>
<td>Width</td>
<td>20” (508mm)</td>
</tr>
<tr>
<td>Height</td>
<td>15” (381mm)</td>
</tr>
<tr>
<td>Wire Spool Weight</td>
<td>6lbs (2.7kg)</td>
</tr>
<tr>
<td>Weight (w/o wire spool)</td>
<td>35lbs (15.9kg)</td>
</tr>
<tr>
<td>Oscillation Rate1</td>
<td>0–250 BPM</td>
</tr>
<tr>
<td>Oscillation Width2</td>
<td>0–0.75” (0–19mm)</td>
</tr>
<tr>
<td>Dwell Time2</td>
<td>0–0.5 seconds</td>
</tr>
<tr>
<td>Wire Feed Speed3</td>
<td>100–625 IPM (2.56–16 meter/min)</td>
</tr>
<tr>
<td>Travel Speed4</td>
<td>4–60 IPM (0.1–1.52 meter/min)</td>
</tr>
<tr>
<td>Tilt Sensor</td>
<td>Accurate to ±1°</td>
</tr>
<tr>
<td>Wire Feed Motor (DC Brush-type motor)</td>
<td>Speed controlled via digital encoder</td>
</tr>
<tr>
<td>Travel Motor (DC Brush-type motor)</td>
<td>Speed controlled via digital encoder</td>
</tr>
<tr>
<td>Oscillation Motor</td>
<td>Uses a digital stepper motor</td>
</tr>
<tr>
<td>Vertical Motor</td>
<td>Uses a digital stepper motor</td>
</tr>
<tr>
<td>Minimum Cutback Distance (bevel to coating)</td>
<td>11” (279.4mm)</td>
</tr>
<tr>
<td>Minimum Cutback Distance (bevel to concrete)</td>
<td>15” (381.0mm)</td>
</tr>
</tbody>
</table>

**Programmable Parameters**

- Pass and Weld Names
- Crater Fill Time
- Pipe/Band/Wire Diameters
- Burn Back Time
- Welding Process
- Blow Wire In Puddle Delay and Period
- Motor Speeds
- Post-Purge Time
- Motor Ramp Times
- Units (Imperial or Metric)
- Motor Speed Limits
- Clockwise or Counterclockwise Bug Type
- Potentiometer Function
- Torch View
- Oscillation Width and Width Limits
- Auto Tilt-Based Welding Mode
- Oscillation Frequency
- Dry Cycle Mode
- Welding Power Supply PID Parameters
- Turn Display On or Off
- Arc Trim Range and Limits
- Enable/Disable Oscillation Width Adjustment
- Work Point Range, Limits, and Ramp Time
- Oscillation Width Adjustment Increment
- Arc Voltage Range and Limits
- Support for Multiple Shielding Gas
- Hot Start Work Point, Voltage, and Time
- Reverse Travel Speed and Ending Angle
- Vertical Tracking Speed
- Enable/Disable Data Logging
- Vertical Target (Amps and Volts)
- Data Logging Distance
- Vertical Target Limits (Amps and Volts)
- Enable/Disable 1G Welding Mode
- Vertical Target Increment (Amps and Volts)
- 1G Welding PID Control Loop Parameters
- Vertical Tracking Thresholds (Amps and Volts)
- 1G Target Angle and Turn Roll Speed