SINGLE SOURCE ADVANTAGE

Our single source approach is simple: we provide all the equipment needed for robotic or manual arc welding. One call solves it all!

- Seamless digital integration for maximum control
- Reduced maintenance time for greater uptime and productivity
- Expert service from experienced support staff

ROBOT, WELDING POWER SOURCE, WIRE FEEDER, TORCH—WE PROVIDE IT ALL.

SEAMLESS SOLUTIONS

Our cells can provide arc welding solutions for a range of parts from small to large size, with minimal operator movement required and little to no part positioning. The compact designs reduce required manufacturing floor space. All cells include robot manipulator & controller, teach pendant, and complete welding package. Multiple positioning devices and software available as standard features or options.

888-OTC-ROBO  www.daihen-usa.com

WB-P500L  WB-P400  WB-M350L  WB-M500  WB-M350

North American Corporation Headquarters
1400 Blauser Dr, Tipp City, Ohio 45371 / Phone: (937) 667-0800

Demonstration Centers
Novi, MI
Davenport, IA
Atlanta, GA
Charlotte, NC
Monterrey, Mexico
Leon, Mexico

DAIHEN Inc.  www.daihen-usa.com
SIGNIFICANTLY REDUCES WELDING COSTS, VERSATILE AND EXPANDABLE

WB-P500L WAVE PULSE
Achieve optimum welding performance on steel, stainless steel, and aluminum. The P500L significantly reduces spatter generation across the entire range of low to high welding currents, delivering high-quality pulse welding by performing optimized waveform control according to materials.

WB-P500L KEY FEATURES & BENEFITS
- CBT-EX extra low spatter mode for carbon and stainless steels.
- Reduced undercut during high speed welding.
- High duty cycle for high output and automated applications.

AUSTENITIC STAINLESS MODES
Cr-Ni-Fe solid wire
Applications include:
- Chemical plants
- Power plants
- Food processing
- Dairy equipment

ALUMINUM
Precision pulse waveform control virtually eliminates even the fine spatter from aluminum MIG welding. In addition, you can easily achieve a TIG-like bead appearance with OTC’s enhanced and patented Wave Pulse process. This low frequency pulse GMAW process modulates both wire feeding and pulse current, achieving beautiful high speed welds with improved metallurgical benefits.

ELIMINATES THE NEED FOR EXPENSIVE HELIUM GAS MIXTURES!

98% Argon + 2% CO₂
90% Argon + 10% CO₂
100% Argon

FERRITIC STAINLESS MODES
Cr-Fe solid wire
Applications include:
- Mufflers
- Exhaust systems
- Kitchen counters
- Kitchen sinks

AVE PULSE II

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90% Argon + 10% CO₂
100% Argon

WB-P400 WAVE PULSE
The P400 is an all-around model for welding steel, stainless, and aluminum with a single unit. This model achieves high-quality pulse welding by performing optimized waveform control according to type of metal being welded. Arc stability is perfect, even during high-speed welding.

SAVE TIME AND MONEY! UTILIZE STANDARD SHIELDING GASES ALREADY IN YOUR PLANT!

CARBON STEELS
- Excellent results with a wider variety of shielding gases
- Compensates for inconsistent gas mixtures

ZINC COATED STEELS
Applications include:
- Transportation
- Bridge & highway
- Agriculture
- Water & marine

WB-M500
A low spatter model that increases your productivity by reducing spatter generation, the M500L provides significant reduction of spatter across the entire range of low to high welding currents to deliver high-quality, high-speed welding. CBT-EX extra low spatter mode for carbon and stainless steels.

WB-M500L
This 500-amp standard welding supply is for high quality welding in any situation at 100% duty cycle. The M500 provides significant improvement in arc stability in the range of low to high electric currents, and delivers a beautiful weld bead with a uniform bead end and less voltage fluctuation, even during high-speed welding.

The Welbee P400 is an all-around model for welding steel, stainless, and aluminum with a single unit. This model achieves high-quality pulse welding by performing optimized waveform control according to type of metal being welded. Arc stability is perfect, even during high-speed welding.

WB-M350L
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WB-M350

WAVE PULSE

Conventional Pulse GMAW produces
an erratic arc with excessive spatter
and porosity.

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Welbee power sources offer nanotechnology with OTC DAIHEN’s proprietary LSI chip, which delivers precise, ultra high-speed waveform control. The result is precise, high quality welding of virtually any metal.

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WB-P500L

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WB-M350

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WB-P500L
A MULTITUDE OF NETWORKING, MONITORING AND DATA COLLECTION CAPABILITIES

OPTIONAL ANDROID™ TABLET APP
- Remote control of front panel operations
- Graphical monitoring of current and voltage
- Upper/Lower limit alarm functions
- Welding result monitor
- Welding condition database
- Maintenance (troubleshoot & backup)

HIGH DURABILITY AND LOW MAINTENANCE
Welbee side air flow structure
- High dust resistance – Reliability is dramatically improved by adopting a separation structure that prevents dust from entering electronic components.
- Easy maintenance – The cooling fan speed is precisely controlled according to the machine duty cycle or ambient air temperature to further minimize dust entry and reduce electrical cost. Additionally, you can easily clean out with shop air without opening the case.

STANDARD USB PORT
Collect and easily transfer data from one machine to others.

FD Friendly series
Dust penetration into the precision part is reduced by about 98%
<table>
<thead>
<tr>
<th>Model</th>
<th>WB-M350</th>
<th>WB-M350L</th>
<th>WB-M500</th>
<th>WB-P400</th>
<th>WB-P500L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of phases</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
</tr>
<tr>
<td>Rated input voltage</td>
<td>208/230V</td>
<td>460V</td>
<td>208/230V</td>
<td>460V</td>
<td>208/230V</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>208/230V</td>
<td>460V</td>
<td>208/230V</td>
<td>460V</td>
<td>208/230V</td>
</tr>
<tr>
<td>Rated input power</td>
<td>15.3kVA</td>
<td>13.0kVA</td>
<td>15.3kVA</td>
<td>13.0kVA</td>
<td>15.3kVA</td>
</tr>
<tr>
<td>Current range</td>
<td>10.9kVA</td>
<td>8.4kW</td>
<td>12.0kVA</td>
<td>9.9kW</td>
<td>12.0kVA</td>
</tr>
<tr>
<td>Rated input current</td>
<td>320A</td>
<td>250A</td>
<td>320A</td>
<td>250A</td>
<td>320A</td>
</tr>
<tr>
<td>Rated load voltage</td>
<td>31.5V</td>
<td>26.5V</td>
<td>31.5V</td>
<td>26.5V</td>
<td>31.5V</td>
</tr>
<tr>
<td>Rated output power</td>
<td>13.4kW</td>
<td>11.2kW</td>
<td>14.8kW</td>
<td>12.6kW</td>
<td>18.2kV</td>
</tr>
<tr>
<td>Current range</td>
<td>11.5kW</td>
<td>9.4kW</td>
<td>16.3/16.8kW</td>
<td>14.8kW</td>
<td>18.2kW</td>
</tr>
<tr>
<td>Rated output current</td>
<td>24A</td>
<td>20A</td>
<td>24A</td>
<td>20A</td>
<td>24A</td>
</tr>
<tr>
<td>Rated load voltage</td>
<td>25.2kVA</td>
<td>24.1kW</td>
<td>25.2kVA</td>
<td>24.1kW</td>
<td>25.2kVA</td>
</tr>
<tr>
<td>Rated input cycle</td>
<td>50/60% 60%</td>
<td>460V</td>
<td>50/60% 60%</td>
<td>460V</td>
<td>50/60% 60%</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>14º F to 104º F (-10 to +40º C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>13º F to 104º F (-25 to +60º C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum no-load voltage</td>
<td>71/78V</td>
<td>70V</td>
<td>71/78V</td>
<td>70V</td>
<td>71/78V</td>
</tr>
<tr>
<td>Rated duty cycle</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
</tr>
</tbody>
</table>

**Note:**
- The voltage detection circuit is not necessary as the controller dynamically adjusts the input voltage.
- The power electronics are designed for 460V input, but can handle 208/230V input with a one-time calibration.
- The inverter is rated for continuous operation at 60% Duty Cycle and up to 100% Rated Load at 208/230V input.