Perfect Welding / Multiple welding methods / High efficiency / Energy-saving

SYNERGIC PULSE MIG

GMAW-280PM/350PM/500PM

The advanced welding system with integrated welding data documentation
DSP/ALL DIGITAL/INTELLIGENT AND INVERTER CONTROL TECHNOLOGY.
MULTIPLE WELDING METHODS.
PULSE MIG/MAG WELDING.
MIG/MAG WELDING. MMA WELDING.

- Use powerful IGBT switches and advanced inverter control technology.
- High technology inverter welding machine.
  Use all digital, intelligent and PWM control technology.
- Pulsed MIG/MAG and DC MIG/MAG, MMA welding process or methods.
- Welding wire diameter (0.8-1.6mm) and material
  (carbon steel, stainless steel, aluminum alloy, etc.) can be selected.
- Welding Gun switch control mode (2T, 4T, S4T and spot welding) can be selected.
- Single regulation or synergy control technology.
- Excellent arc characteristics, good welding performance and little spatter.
- High weld quality, deep bath and strength. Lower heat input, small deformation after welding.
- Minimizing lightness, it can be moved easily, and energy savings up to 30%.
- With auto protection functions of over current and over-heat.
- The welding material of the thin and medium plate can be welded.
- Be able to weld all kinds of metal, for example, carbon steel, stainless steel, aluminum alloy, etc.
PULSE MIG/MAG WELDING

In simple terms, pulsed MIG is a non-contact transfer method between the electrode and the weld puddle. This means that at no time does the electrode ever touch the puddle. This is accomplished through high-speed manipulation of the electrical output of the welding machine. It is designed to be a spatterless process that will run at a lower heat input than spray or globular transfer methods.

The pulsed MIG process works by forming one droplet of molten metal at the end of the electrode per pulse. Then, just the right amount of current is added to push that one droplet across the arc and into the puddle. The transfer of these droplets occurs through the arc, one droplet per pulse.

THE BENEFITS OF THE GMAW-280PM/350PM/500PM

COST SAVINGS
/ One welding system for multiple welding methods
/ Long life of parts

SAFETY
/ Compliance with the IEC 60974-1 standard
/ Compatibility with Industry 4.0

SERVICE
/ Quick support
/ Customized services

TOUCH OPERATION/METER AND LED DISPLAY
/ Informative plain-text display
/ Easy to use

MULTIPLE WELDING METHODS
/ Pulse MIG/MAG Welding
/ MIG/MAG Welding
/ MMA Welding

RANGE of WELDING WIRE
/ 0.8, 1.0, 1.2and 1.6mm Welding wire diameter
/ Solid Cored Wire and Flux Cored Wire
/ Carbon steel, stainless steel, aluminum welding wire, etc.
# TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>GMAW-280PM</th>
<th>GMAW-350PM</th>
<th>GMAW-500PM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input voltage</strong></td>
<td>3 Phase, 415VAC±15%</td>
<td>3 Phase, 415VAC±15%</td>
<td>3 Phase, 415VAC±15%</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>50/60Hz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td>13KVA</td>
<td>14.4KVA</td>
<td>25KVA</td>
</tr>
<tr>
<td><strong>Output current</strong></td>
<td>DC 20-280A</td>
<td>DC 30-350A</td>
<td>DC 30-500A</td>
</tr>
<tr>
<td><strong>Output voltage</strong></td>
<td>DC 15-28V</td>
<td>DC 15.5-31.5V</td>
<td>DC 15.5-39V</td>
</tr>
<tr>
<td><strong>Rated Duty cycle</strong></td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
</tr>
<tr>
<td><strong>Wire Diameter</strong></td>
<td>0.8mm, 1.0mm, 1.2mm</td>
<td>0.8mm, 1.0mm, 1.2mm</td>
<td>1.0mm, 1.2mm, 1.6mm</td>
</tr>
<tr>
<td><strong>Class of Insulation</strong></td>
<td>H</td>
<td>H</td>
<td>H</td>
</tr>
<tr>
<td><strong>Degrees of Protection</strong></td>
<td>IP21S</td>
<td>IP21S</td>
<td>IP21S</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>20Kg</td>
<td>38Kg</td>
<td>39.5Kg</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>950x550x880 mm</td>
<td>630x330x590 mm</td>
<td>630x330x590 mm</td>
</tr>
<tr>
<td><strong>Wire Feeder</strong></td>
<td>Internal</td>
<td>External</td>
<td>External</td>
</tr>
</tbody>
</table>

# ACCESSORIES

a) Earth Cable and Clamp  
b) Welding Gun  
c) Gas Hose

---

**GMAW-280PM/350PM/500PM**

Digital IGBT Inverter Pulse And No Pulse MIG/MAG & MMA WELDING MACHINE

**GMAW-280PM/350PM/500PM** welding machine is a constant voltage and current (CV and CC) output power source especially designed for Pulse MIG/MAG, MIG/MAG and MMA welding. **GMAW-280PM/350PM/500PM** should be selected for very demanding applications such as stainless steel and aluminium metal welding, especially in very hot climates and hard facing with flux cored wires up to 1.6 mm. Typical areas of use are, large sectioned steel constructions, railroad vehicle construction, ship building, earth moving equipment construction and maintenance, forklift and general machine construction, cement and brick industry maintenance. It is also a very good choice for stainless steel and aluminium Pulse MIG/MAG welding.

---

**I-WELD INTERNATIONAL CORPORATION**

Address: 12-2F No.208-1, Wen Sin Road Section 4, Taichung, Taiwan, R.O.C (404)  
Email: intensive_weld@hotmail.com or sales@welltech.com.my