

PROMIG-250SYN/250SYN Pulse

Welding excellent



Quick Specs

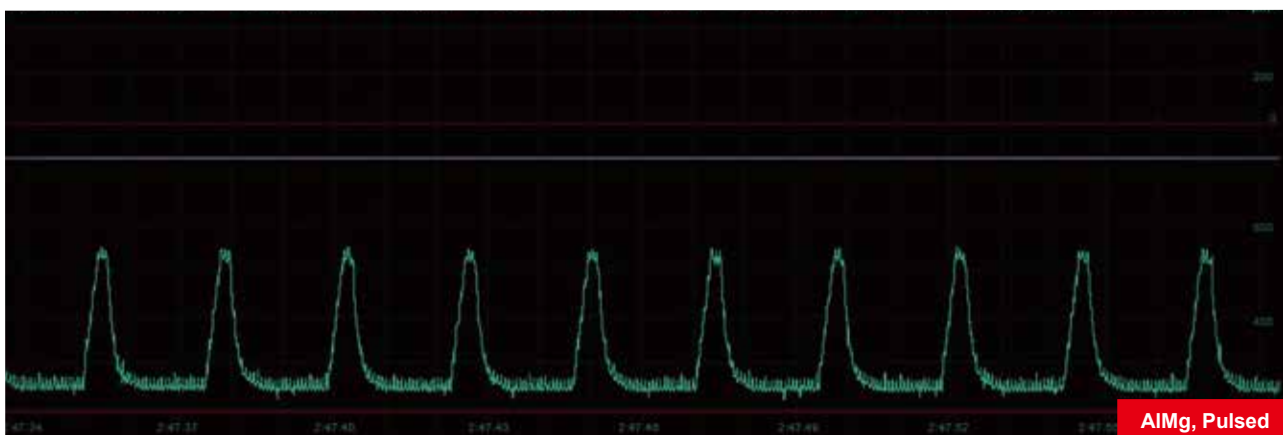
- ♦ **Processes:**
MIG/MAG, Flux-Cored,
Pulse MIG,
TIG, MMA(Stick)
- ♦ **Input Power:**
200-240V/1-PH/50-60Hz
340-460V/3-PH/50-60Hz
- ♦ **Rated Output at 40°C (104°F):**
250A/26.5V/60%
- ♦ **Applications:**
Metal Fabrication,
Maintenance and Repair,
Auto Body,
Light Industrial,
Workshop

TOP Features:

- ✓ **Full IGBT Modules Structure** makes it more reliable than ever and extremely promote the peak amperage up to 450Amps.
- ✓ **The True Multi-process** welder will performs MIG/MAG with solid or flux-cored wire, stick and TIG like it was born to run that process.
- ✓ **Synergy with JOB-LISTS** covers different metal materials, different wire diameters and different shield gases, easily welds mild steel, stainless steel and aluminum.
- ✓ **Built-in featured waveform** constantly monitors complex arc characteristics adapting to your technique to provide a smooth, stable arc and superior, repeatable welds.
- ✓ **Dynamic Control** controls the welding arc cone width, a slightly softer arc or a slightly harder arc depends on your preference and application.
- ✓ **Produces less spatter.**
- ✓ **True high deposition rate.**
- ✓ **2T or 4T selection.**
- ✓ **Spot welding function.**
- ✓ **Professional 4-rollers** wire feeding system.

True Pulse to Weld Excellent

Most people think pulse function is only used for welding aluminum and stainless steel. We built the PROMIG-250SYN PULSE not only using pulse for them, but also mild steel! The real spray arc transfer forms droplet of molten metal at the end of the electrode, then just the right amount of current is added to push that droplet across the arc and into the puddle. With practicing thousands of welding jobs, the pulse curve is improved for different materials and different situations. After selecting JOB-LISTS, the waveform control system constantly monitors complex arc characteristics adapting to your technique to provide a smooth, stable arc, superior, repeatable welds. Whatever mild steel, stainless steel and aluminum, the PROMIG-250SYN PULSE ensure you welding excellent and full of joy.



Full IGBT Modules Structure

PROMIG-250SYN/250SYN Pulse is a combination of modularity, ease of use and wide range of usage. Its peak amperage is up to 450Amps and pack huge duty cycle performance into compact lean dimensions and weight, increasing productivity and work site mobility.

True Multi-Process

Many machines claim they are multi-process, but are little more than a MIG machine in disguise. PROMIG-250SYN/250SYN Pulse is a true multi-process welder, which means whether you are welding MIG/MAG with solid or Flux-Cored wire, MMA – even the most tricky electrodes – or Lift TIG, PROMIG-250SYN/250SYN Pulse will perform like it was born to run that process.

- Professional-grade MIG performance, including flux-cored
- Excellent MMA performance, including stainless steel
- Exceptional lift TIG performance down to 5A



True Synergy with JOB-LISTS

With thousands of welding jobs, we built the True Synergy with JOB-LISTS. It covers different metal materials, different wire diameters and different shield gases. After setting wire feeding amperage regarding to the wire feeding guide, the PROMIG-250SYN/250SYN PULSE will automatically match the best waveform to make your welding comfortable and excellent!

1. Select Job-list number



JOBs-list						
 Material	 Gas	 Wire				
		0.6	0.8	0.9	1.0	1.2
		JOBs No.				
Fe	100%CO ₂	101	102	103	104	/
	80%Ar 2%CO ₂	201	202	203	204	/
S.S	98%Ar 2%CO ₂	301	302	303	304	/
Al	100%Ar	/	402	403	404	405
Flux Cored	Self-shield	/	502	503	504	505

2. Set wire feeding amperage



3. Start welding and PROMIG does the rest



Professional 4-rollers drive systems

- ◆ Four-rollers drive systems deliver the electrode to the welding torch. It provides a stable wire speed and is popular for industrial applications.
- ◆ 4-Rollers wire feeder also provides continuous push force to the wire and ensure an accurate and positive wire feed speed, which is important for aluminum.



Dynamic control

Arc setting: soft



Dynamics

Arc setting: medium



Dynamics

Arc setting: hard



Dynamics

Dynamic control with a push of a button

You know how it is from experience. Every transformer system has its own unique characteristics. One system produces a slightly softer arc, while the next generates a slightly harder arc. More importantly, every welder has his own preference in terms of what he considers to be the perfect arc: softer and longer, shorter and harder or somewhere in between. This calls for a level of distinction that a transformer systems simply cannot realize. Our system allows you to individually adjust the dynamics of the arc to suit the work and welding position at hand and will find the simplest and fastest arc setting that is most suitable in each case. The rest of the job is carried out by the intelligent arc control technology incorporated into the background to achieve a perfect weld seam every time.

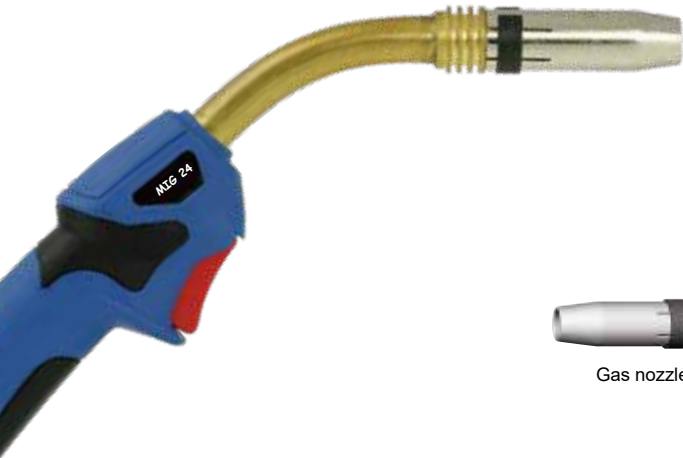
Technical Specifications

Item No	PROMIG-250SYN	PROMIG-250SYN PULSE
Rated Input Voltage	1PH ~ 230V ±15%/3PH ~ 400V ±15%	1PH ~ 230V ±15%/3PH ~ 400V ±15%
Max. Load Power Capacity	11.72KVA	11.72KVA
Rated Duty Cycle(40°C) 60%	MIG: 250A/26.5V	MIG: 250A/26.5V
	MMA: 250A/30V	MMA: 250A/30V
	TIG: 250A/20V	TIG: 250A/20V
	100%	100%
	MIG: 200A/24V	MIG: 200A/24V
	MMA: 200A/28V	MMA: 200A/28V
Welding Current/Voltage Range	TIG: 200A/18V	TIG: 200A/18V
	MIG: 10A/14.5V ~250A/26.5V	MIG: 10A/14.5V ~250A/26.5V
	MMA: 20A/20.8V~250A/30V	MMA: 20A/20.8V~250A/30V
	TIG: 5A/10.2V~250A/20V	TIG: 5A/10.2V~250A/20V
	Open Circuit Voltage	70V~80V
	Power Factor	0.8
Efficiency	80%	80%
Pre-Gas Time	Preset	Preset
Flow-Gas Time	Preset	Preset
Wire-feed Mechanism	4 Rollers	4 Rollers
Wire-feed Speed Range	0-25m/min	0-25m/min
Wire Spool Capacity	300mm (15kg)	300mm (15kg)
Filler Wires (mm) for Fe :	0.8~1.2 mm	0.8~1.2 mm
For Stainless steel:	/	0.8~1.2 mm
For Aluminum:	/	0.8~1.2 mm
Dimension	790x250x650mm	790x250x650mm
Weight	32KG	32KG

Accessories

Standard accessories

MIG-24



Gas nozzle



Contact tip



Contact tip holder



Gas diffuser



Electrode holder with cable 2M
Earth clamp with cable 2M

Technical data (EN 60 974-7):

Rating:	250 A CO ₂
	220 A mixed gas M21
	(DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	Φ 0.8–1.2 mm

Optional accessories

BINZEL MB EVO PRO 24



Argon gas regular
or co₂ gas regular with heater



Push-pull Troch:
QTLB-24KD/36KD



TIG torch:TIG-26

Technical data (EN 60 974-7):

Rating:	250 A CO ₂
	220 A mixed gas M21
	(DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	Φ 0.8–1.2 mm