

MIG-500HD/500HD Pulse

Proven reliability, heavy duty and high deposition rate for industry



Quick Specs

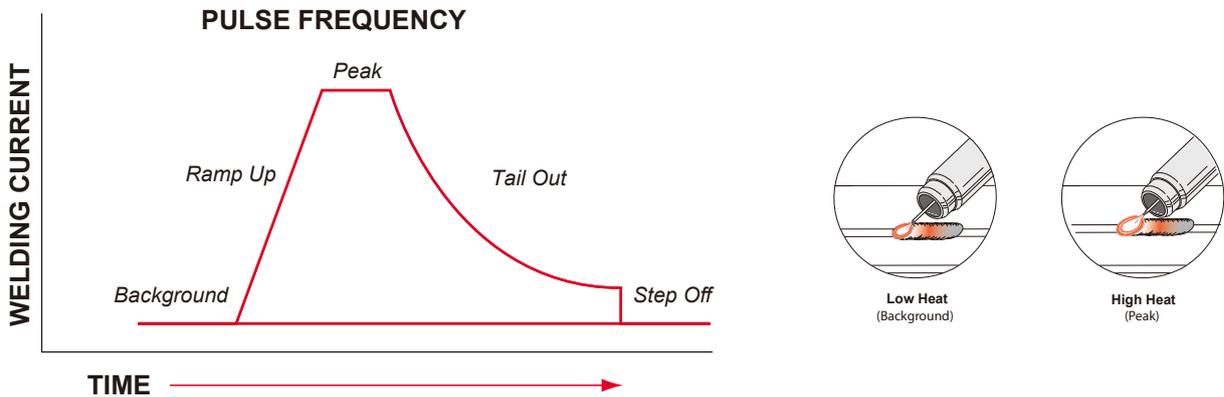
- ◆ **Processes:**
MIG/MAG, Flux-Cored,
Pulse MIG,
MMA(Stick)
- ◆ **Input Power:**
340-460V/3-PH/50-60Hz
- ◆ **Rated Output at 40°C (104°F):**
MIG-500HD: 500A/39V/60%
- ◆ **Applications:**
Metal fabrication workshops
Shipyards and offshore industry
Chemical and process industry
Steel structure workshops

TOP Features:

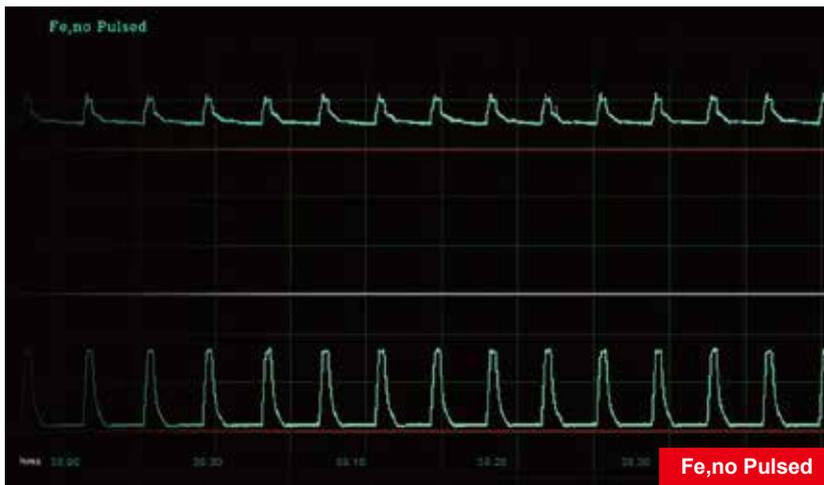
- ✓ **Full IGBT Modules Structure** greatly improve its reliability and productivity.
- ✓ **Pulse MIG** – Cost savings, better quality, improved productivity and easier operation.
- ✓ **Synergic control** – Set weld procedures with one control, simple and easy to operate.
- ✓ **All position carbon steel welding with Pulse MIG process:** use the cheaper CO₂ gas but get a similar Ar/CO₂ MAG welding performance.
- ✓ **Featured Wave-form control system:** Maintains a stable, smooth arc for short arc welding on steel. Improved penetration on thicker aluminum sections.
- ✓ **Dynamic Control** controls the welding arc cone width, a slightly softer arc or a slightly harder arc depends on your preference and application.
- ✓ **Synergy MIG** provides communication between power source, feeder and gun. As wire speed increases or decreases, the arc voltage also increases or decreases to maintain a constant welding arc.
- ✓ High deposition rate.
- ✓ Arc Crater function eliminate the crater.
- ✓ 10 channels memory capacity.

Advanced Pulse MIG for welding stainless steel

It's a distinctive function for MIG-500HD Pulse. With thousands of stainless steel welding experiments, TOPWELL improve the pulse curve to make a better welding result. Low heat input and high deposition rate.

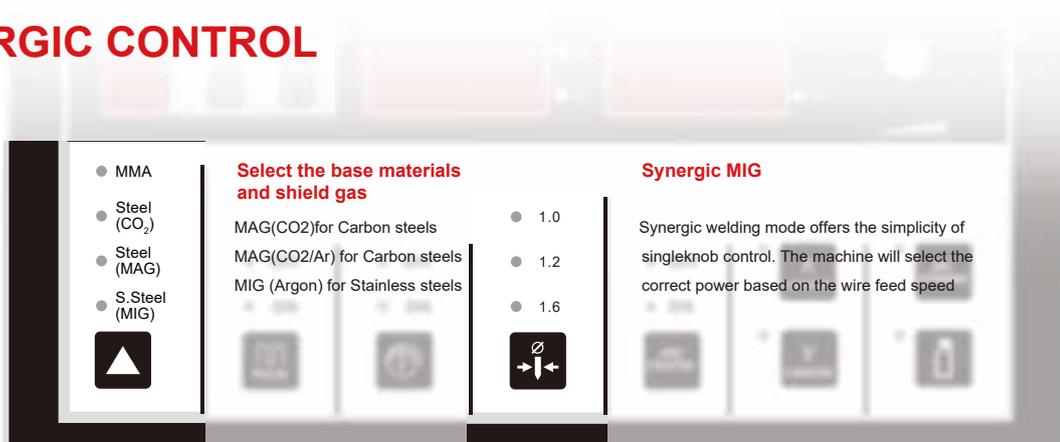


THE ADVANTAGE OF WAVE-FORM CONTROL SYSTEM



The latest technology of Waveform Control System, can perfectly control the output of welding power and get the precision Arc performance. The wire melting droplet transfer cycle is very clear, the welding beam is very clean and very few spatters during welding.

SYNERGIC CONTROL



CLASSICAL MIG/MAG

In classic mode, MIG / MAG welding is carried out in inert gas with automatic wire feed. With this mode, a high welding speed and excellent quality are offered without any extra costs in the processing of ferrous metals, as well as various steels.



Technical Specifications

Item No	MIG-500HD
Rated Input Voltage	3PH ~ 400V ±15%
Max. Load Power Capacity	26.99KVA
Rated Duty Cycle(40) 60% °C	MIG: 500A/39V
	MMA: 500A/40V
100%	MIG: 350A/31.5V
	MMA:350A/34V
Welding Current/Voltage Range	MIG: 10A/14.5V~500A/39V
	MMA:10A/20.4V~500A/40V
Open Circuit Voltage	70V~80V
Power Factor	0.85
Efficiency	85%
Pre-Gas Time	Preset
Flow-Gas Time	Preset
Wire-feed Mechanism	4 Rollers
Wire-feed Speed Range	0~25m/ min
Wire Spool Capacity	300mm (15kg)
Filler Wires Ø (mm) Fe, Ss:	0.8~1.6 mm
Dimension (LxWxH)	960x420x1400mm
Weight (KG)	85KG

Water-cooling Unit: WC-150

Operating Voltage	230V 50/60Hz
Rated Power	260W
Cooling Power	1.5KW(1L/MIN)
Maximum Pressure	0.3MPA/60HZ
Recommended Cooling Liquid	20%~40% ethanol/water
Tank Volume	6.5L

Accessories

Standard accessories

MIG-501D



Gas nozzle



Contact tip



Contact tip holder



Gas diffuser



Earth clamp

Technical data (EN 60 974-7):

Rating:	550A /575A CO ₂
Duty cycle 60%	500A/525A mixed gas
	M21 (DIN EN ISO 14175)
Duty cycle:	100%
Wire Size	1.0 –1.6mm

Optional accessories

BINZEL MB EVO PRO 501D



Technical data (EN 60 974-7):

Rating:	550A /575A CO ₂
Duty cycle 60%	500A/525A mixed gas
	M21 (DIN EN ISO 14175)
Duty cycle:	100%
Wire Size	1.0 –1.6mm



Argon gas regular
or CO₂ gas regular with heater