Panasonic

Full Digital Pulse MIG/MAG Welding Machine

YD-350/500FD2

The specialized models for aluminum MIG welding

High performance-price ratio

Manual welding

Panasonic pursues Only one in welding

Recommended application industries: construction aluminum formworks, aluminum alloy furniture and pallets etc.

The high-quality aluminum MIG welding of both thin and middle thick aluminum plate

- Thanks to quad-core processer and integrated software control algorithm, the optimum pulse waveform control has been achieved, make welding arc more stable.
- By taking use of the built-in specialist database of 1.2 and 1.6 welding wires, the machine is suitable for the welding of thin and thick aluminum plate.

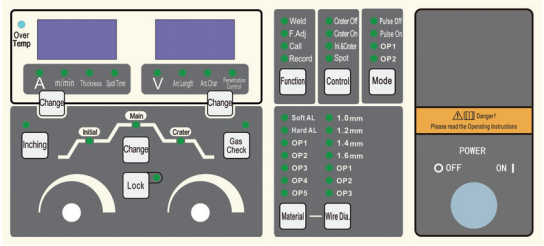
The wire feeder motor equipped with the high-precision encoder

- The motor equipped with digital encoder provides the precise wire feeding, powerful feeding force and high anti-inference ability, ensuring stable welding.
- The enclosed structure can significantly prevent the contamination of the dust.
- The damping shaft offers proper braking capability.
- The 4-roll mechanism enables the wire feeder to give you powerful and stable wire feeding performance.

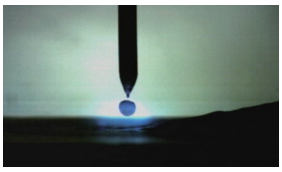
The instant and stable arc ignition

- Thanks to the motor equipped with full-digital encoder and unique arc start control technology, the instant arc ignition is realizable.
- The control on the shape of the molten ball at the tip of welding wire paves the way for the next successful arc ignition.

The user-friendly operation interface



The various welding modes optimized for aluminum welding



- The single pulse welding mode is suitable for medium and thick aluminum materials and the dual-pulse mode for thin plate and vertical welding.
- The arc-length control technology can change the arc thermal output.
- The requirement for a variety of aluminum alloys can be widely satisfied.
- According to the special aluminium alloy materials, the specific arc software packages can be customized.

Abundant arc characteristics help you to realized high-quality welding for aluminum

Material	Shielding gas	Control mode	Wire diameter (mm)
Aluminum-magnesium	MIG	Pulse OFF 【DC】	1.2
			1.6
		Pulse ON 【DC.P】	1.2
			1.6
Aluminum-silicon	MIG	Pulse OFF 【DC】	1.2
			1.6
		Pulse ON 【DC.P】	1.2
			1.6
Other materials	Custom-tailor development		

Accessible to iWeld Intelligent Welding Management System, realizing monitoring on the welding and data management

- The operation status and process parameters can be recorded and monitored in real time through wired Ethernet or wireless Wifi.
- The transmission of the welding data can be resumed from break point. The waveform query and statistical statement functions are provided. iWeld can be easily integrated with other management systems.

Convenient and practical management functions

- 100 groups of welding conditions can be stored and recalled.
- The upper and lower limits on welding current can be set, avoiding the operation against preset parameters.

Optional wire-draw welding gun

The wire-draw welding gun can improve the wire feeding stability and greatly expend the operational area.
(The special wire feeder should be equipped. The maximum length of the cable is 10m.)

Rated specifications

Model		YD-350FD2	YD-500FD2
Power control method	–	IGBT inverter type	
Rated input voltage	–	3–phase AC 380 V	
Rated input frequency	Hz	50/60	
Rated input	kVA/kW	17.6/13.5	29.9/23.9
Output characteristic	–	CV(Constant Voltage)	
Rated output current	A	DC 350	DC 500
Rated output voltage	V	31.5	39
Rated duty cycle	%	60	
Rated output no–load voltage	V	DC 80	
Output current adjustable range	A	DC 40~430	DC 60~500
Output voltage adjustable range	V	16~35.5	17~39
Method of welding	–	Individual / Unitary	
Enclosure protection class	–	IP23S	
Insulation grade	–	Main transformer 155℃（F class）, Reactor 200℃	
Applicable wire size(diameter)	–	Soft/Hard Aluminum 1.2/1.6	
Memory	–	100 channels of welding parameters can be stored and recalled.	
Sequence	–	Welding/ Welding–crater/Initial–welding–crater/ Tack welding	
Shielding gas	–	MIG Aluminum Ar:99.99%	
Gas check time	–	60 s (Max)	
Pre–flow time	–	0 s – 5.0 s continuous (0.1 s Increment)	
Post–flow time	–	0 s – 5.0 s continuous (0.1 s Increment)	
Tack welding time	–	0.3 s – 10.0 s continuous (0.1 s Increment)	
Cooling liquid tank volum	L	9	
Cooling method/ circulation type		Circulating cooling/Pump forced circulation	
Cooling capacity	kW	1.5 (Tested at flow rate of 1L/min)	
Cooling liquid max hydraulic head	m	20	
Dimension	mm	1200x570x1060	1200x570x1060
Mass	kg	124	133

Safety precautions ●Before attempting to use any welding product, always read the manual to ensure correct use.

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