

Panasonic
ideas for life

Full Digital
Pulsed MAG Welding Machine

500AF2

Full Digital



*Full Digital control enables
stable and high quality MAG welding*

- Full Digital and A.I. control drastically reduced spatters.
- Stable wire feed by DC wire feed motor with encoder
- 500A machine, that gives you a wide adjustable range of output current from **40A to 500A** and duty cycle **100%**.
- Convenient memory function allows to store and reproduce up to **32 welding schedules**.

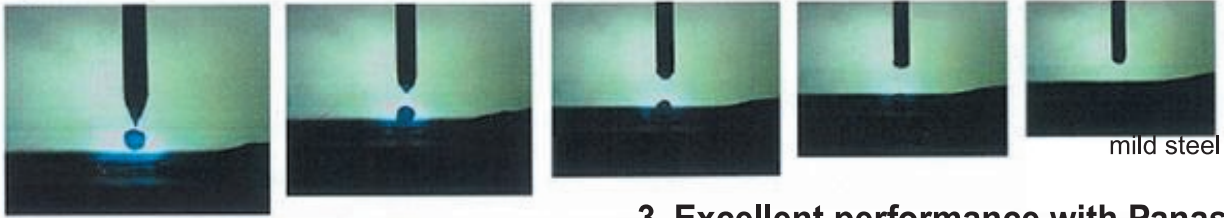
CE



Standard Features

1. Superior welding performance by A.I. control & Full Digital

Panasonic's original Artificial Intelligent (A.I.) and Full Digital control offer low spatter, stable arc, high deposition rate, flexible penetration and excellent bead appearance.



● Exceptional performance over wide range of material thickness

AF2 has excellent arc stability at every current range. Precise pulse waveform control optimizes the welding arc to achieve one pulse -one drop transfer

● High speed arc control reduces spatter

AF2's 32 bit RISC CPU realizes high speed waveform control over a wide range of welding currents with less spatter generation. This control removes small secondary short circuits in the welding arc which is one of the factors that causes spatter and arc instability.

2. Improved arc start performance

● Quick and instantaneous arc start

AF2 produces excellent arc starting performance by using a 2 step high current arc start and impulse starting technology in a short period of time.

● New FTT control

AF2 reduces the ball on the end of the welding wire at the end of the weld. This enables stable arc starts.

● CDM arc start method

CDM (Current Detect Mask) method provides stable and quick arc starts by precisely controlling the wire feed motor at the moment of arc ignition.

3. Excellent performance with Panasonic robots by Digital interface

AF2 can be connected with Panasonic's G2 robots by a single digital communication cable. The power source can be recognized automatically by G2 robot controller. Through Full Digital control, the robot can digitally fine adjust the AF2's welding waveform.

Rated specifications

Model	YD-500AF2YHC
Rated input voltage	400V
Rated frequency	50/60Hz
Number of phase	3-phase
Rated input	28kVA (26.5kW)
Maximum non-load voltage	73V DC
Output current adjustable range	40 - 500A
Output voltage adjustable range	16 - 39V
Rated duty cycle	100%
Power control method	IGBT inverter type
Computer interface	RS-232C, RS-422
Memory	32ch, reproducible storages
Robot interface	Serial communication interface to Panasonic G2 controllers
Applicable welding method	CO ₂ , MAG, Pulsed MAG
Applicable shielding gas	CO ₂ (100%) MAG (80% argon and 20% CO ₂)
Applicable wire size (diameter)	1.2, 1.4, 1.6mm
Applicable wire material	Mild steel (MS) Mild steel _ Flux cored wire (MS_FCW) Stainless steel Stainless steel_Flux cored wire
Dimension (W x D x H)	440mm x 585mm x 945mm
Weight	122kg



Safety precautions

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



We provide the products friendly to the environment.

Aiming for the earth-friendly company, Panasonic Welding Systems Co., Ltd. has been promoting to disuse hazardous substances to the products as the company policy.

Panasonic Welding Systems Co., Ltd.

Global Sales and Marketing Group

1-1, 3-chome, Inazu-cho, Toyonaka, OSAKA 561-0854 JAPAN

TEL:81-6-6866-8505 FAX:81-6-6866-0709

<http://panasonic.net/pws>

Panasonic Factory Solutions Europe Robot & Welding Systems

Harkortstrasse 11, 40880 Ratingen [Germany](#)

TEL:49-2102-94213-0 FAX:49-2102-94213-200

<http://www.panasonic-industrial.com>

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Specifications subject to change without notice.

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