

Rated Specifications

| Item | | 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°C (F class), Reactor 200°C | |
| 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 volume | 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 | 1200 x 570 x 1060 | 1200 x 570 x 1060 |
| Mass | kg | 124 | 133 |

Panasonic reserves the right to alter the specifications without notice.

Panasonic

YD-350/500FD2

Full Digital Pulse MIG/MAG Welding Machine



The Specialized models for aluminium MIG welding

High performance-price ratio

World-class Welding Quality at Your Doorstep

- Panasonic Smart Factory Solutions India has set-up its state-of-the-art manufacturing facility in Jhajjar, Haryana, India. So our globally proven range of welding equipment including MMAW, MIG/MAG, TIG, Plasma Cutting, Welding Accessories, and Welding Robots are now available at your doorstep.
- Assured commitment to long-term product support in terms of Sales, Service and Spares.
- All-India Sales and Service network.



Range of Welding Equipment: MMAW | MIG/MAG | TIG | Plasma Cutting | Welding Accessories | Welding Robots
Panasonic has set-up its own state-of-the-art welding equipment manufacturing facility at Jhajjar near Gurugram, Haryana, India.

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Sales Offices at Ahmedabad, Bengaluru, Bhubaneswar, Mumbai and Hyderabad.

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Authorised Sales & Service Provider



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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 processor 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

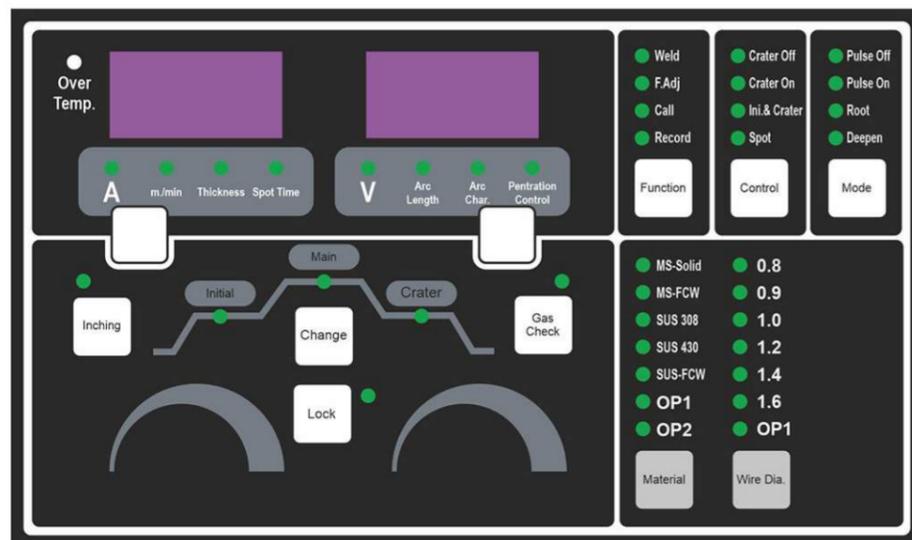
- The motor equipped with digital encoder provides the precise wire feeding, powerful feeding force and high anti-inference ability, ensuring stable welding.
- The enclosed structure can significantly prevent the contamination of the dust.
- The damping shaft offers proper braking capability.
- The 4-roll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



The instant and stable arc ignition

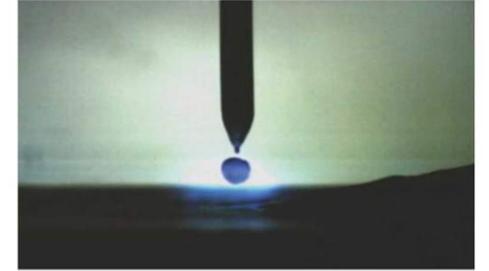
- Thanks to the motor equipped with full-digital encoder and unique arc start control technology, the instant arc ignition is realizable.
- The control on the shape of the molten ball at the tip of welding wire paves the way for the next successful arc ignition.

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 | | |

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 expand the operational area. (The special wire feeder should be equipped. The maximum length of the cable is 10m.)