

POWER SOURCE

Item	Units	YD-350GR5	YD-500GR5
Control method	-	Digital IGBT control	
Rated input/No. of phases	-	3-phase AC 415 V, -27%, +10% (304 V - 456 V)	
Input power frequency	Hz	50/60	50/60
Rated input capacity	KVA/KW	17.6/13.5	29.9/23.9
Output characteristics	-	CV (Constant voltage characteristics)	
Rated output current	A	DC 350	DC 500
Rated output voltage	V	31.5	39
Rated duty cycle	%	60	100
Rated output no-load voltage	V	DC 80	
Output current range	A	DC 40-430	DC 60-500
Output voltage range	V	16-35.5	17-39
Welding method	-	Individual/Unitary	
Enclosure protection class	-	IP23S	
Insulation class	-	Main transformer 155 deg C (Inductor 200 deg C)	
EMC classification	-	A Grade	
Cooling method	-	Forced air cooling	
Application welding wire type	-	Solid/Flux cored	
Applicable welding wire diameter	mm	Solid core 0.8/1.0/1.2/1.4/1.6	
	mm	Flux cored mild steel 1.2/1.4/1.6	
	mm	Flux cored stainless steel 1.2	
Welding wire material	-	Mild steel, Mild steel flux cored, Stainless steel, stainless steel flux cored	
Memory	-	100 channels can be called, welding parameters recordable	
Sequence	-	Welding/welding-crater/initial-welding-crater/spot welding	
Shielding gas	-	CO ₂ welding CO ₂ :100%	
	-	MAG welding Ar: 80%, CO ₂ : 20%	
	-	MIG welding Ar: 98%, CO ₂ : 2%	
Gas check time	-	60 sec (longest gas check time)	
Pre-flow time	-	0 sec-5 sec continuous adjustment (0.1 sec incremental)	
After-flow time	-	0 sec-5 sec continuous adjustment (0.1 sec incremental)	
Overall dimensions	mm	682 x 380 x 612 (LWH)	735 x 380 x 895 (LWH)
Mass	Kg	68	110
Ordering code	-	YD-350GR5HGY	YD-500GR5HGY

WIRE FEEDER

Item	Units	YW-50DG	YW-50DG
Rated welding current	A	500	
Welding wire type	-	Mild steel solid core and flux cored wire; stainless steel solid and flux cored welding wire	
Wire feed speed range	-	2.5 to 20.1 metre/min	
Cable length	metre	1.8 metre(Standard); 5 metre, 10 metre, 15 metre (Optional)	
Drive method	-	4 Roll 2 drive	
Ordering code	-	YW-50DG1HN1	YW-50DG1HN3

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.

PANASONIC LIFE SOLUTIONS INDIA PVT. LTD.

(Division Company: Panasonic Smart Factory Solutions India)

Head Office: 12th Floor, Ambience Tower, Ambience Island, NH-8, Gurugram - 122002, Haryana, India.
Phone: +91-124-4871300

Factory: Village Bid Dadri, Tehsil and District: Jhajjar - 124103, Haryana, India.

Eastern Regional Office: Acropolis Mall, 8/6, Plot No. 1858, 8th Floor, Rajdanga Main Road, Opp. Kasba New Market, Kolkata - 700016, West Bengal.

Western Regional Office: 5th Floor, Unit No. 502 & 503, Windfall Building, Sahar Plaza Complex, Survey No. 179A to 179H, J. B. Nagar, Andheri East, Mumbai - 400058, Maharashtra.

Southern Regional Office: 66th Floor, Polyhose Towers, No. 86, Anna Salai, Guidy, Chennai-600032, Tamil Nadu

Central Regional Office: Ayodhya, 119, 2nd Floor, Bajaj Nagar, Nagpur - 440010, Maharashtra.

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

For more information and service related queries please write to: Psfisin.enquiry@in.panasonic.com

Authorised Sales & Service Provider



+91-9729900200

PSFSIN / YD-350/500GR5/022023

Panasonic

YD-350/500GR5

Full Digital Controlled MIG/MAG
Welding Machine



MILD STEEL
STAINLESS STEEL



IBC
Ini Arc & BBK Control

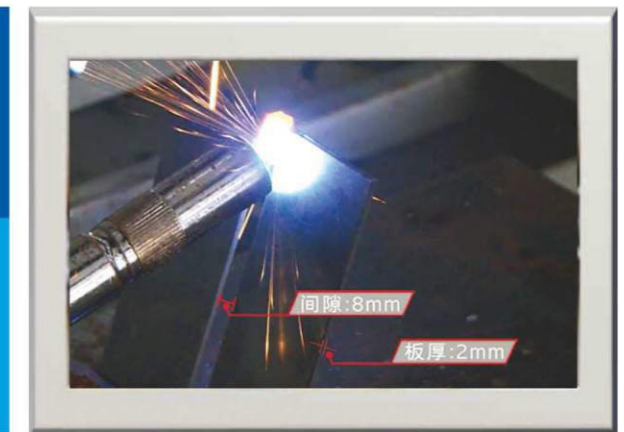
Root
Root Welding

Welding process
Software

Root welding function for large gap welding

Root Welding Control Technology

Short circuit transfer, stable arc, low heat input, suitable for thin plate gap welding



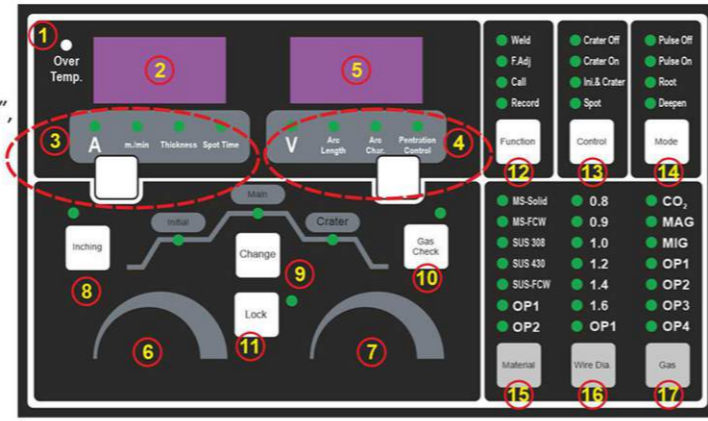
This machine is capable of filling the extra large gap between plates. Root welding function is provided to realize root pass and all position welding with ease (even for 2 mm thickness plate with 8 mm gap). The low heat input and quick-cooling molten pool enable the machine to acquire excellent bridging ability, suitable for filling the extra large gap between plates.

www.panasonic.com/in/business/introduction.html



Panasonic reserves the right to alter the specifications without notice.

- ① Temp. abnormal indicator
- ② Current display, 7-segment LED
- ③ Setting: "Current", "Wire feed speed", "Plate thickness", "Spot welding time" function select
- ④ Setting: "Voltage", "Arc length", "Arc characteristics", "Penetration control" function select
- ⑤ Voltage display, 7-segment LED
- ⑥ Jog-dial
- ⑦ Jog-dial
- ⑧ Manual Wire Feeding Button
- ⑨ Switching Button
- ⑩ Gas Check Button
- ⑪ Lock Button
- ⑫ Mode Select Button
- ⑬ Welding Control
- ⑭ Welding Method
- ⑮ Material
- ⑯ Wire Diameter
- ⑰ Shielding Gas

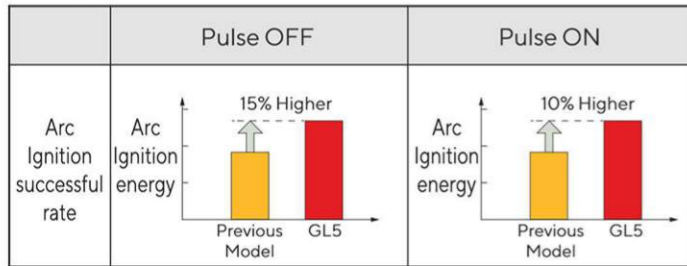


Welding Method and Process Software

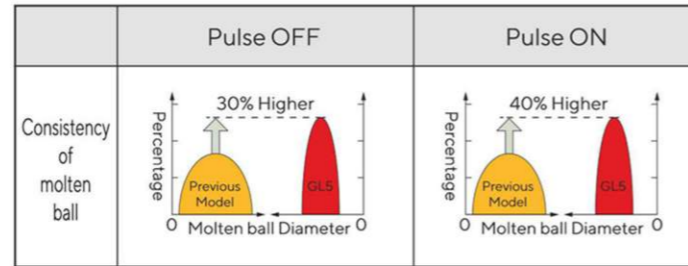
IBC (IniArc and BBK Control, the arc ignition and burn-back control)

The arc ignition adopts asynchronous curved surface acceleration control. The arc start energy is dynamically adjusted, which can quickly establish and stabilize the molten pool and improve the successful rate of arc ignition. Burn-back control utilizes controllable braking ball cancelling technology to improve the consistency of molten ball size. At the same time, the arc ignition and burn-back time are shortened, speeding up the welding cycle and improving production efficiency.

Arc Ignition Control



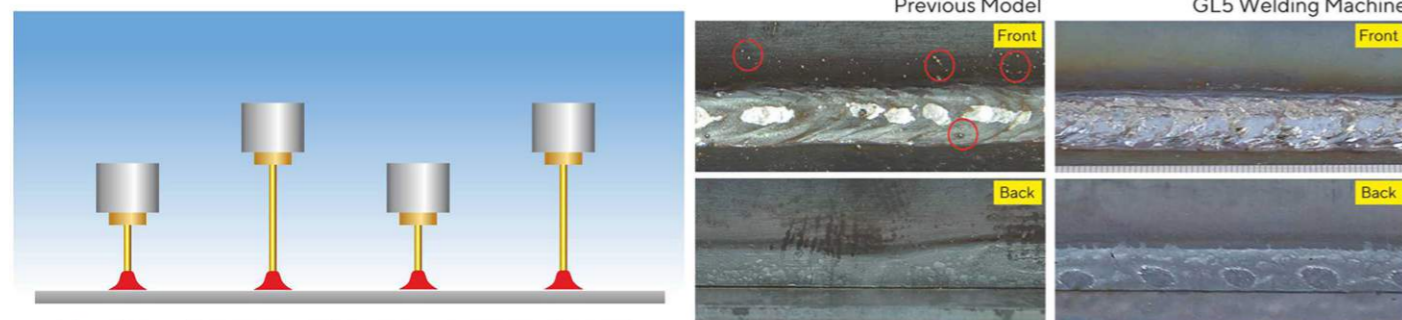
Burn-back Control



Constant arc length control **ALC** (Arc Length Consistency)

During the welding process, the welding parameters are dynamically adjusted to keep constant arc length even when external disturbances occur (such as a changing wire extension length). As a result, the dynamic characteristics and arc stability are enhanced significantly.

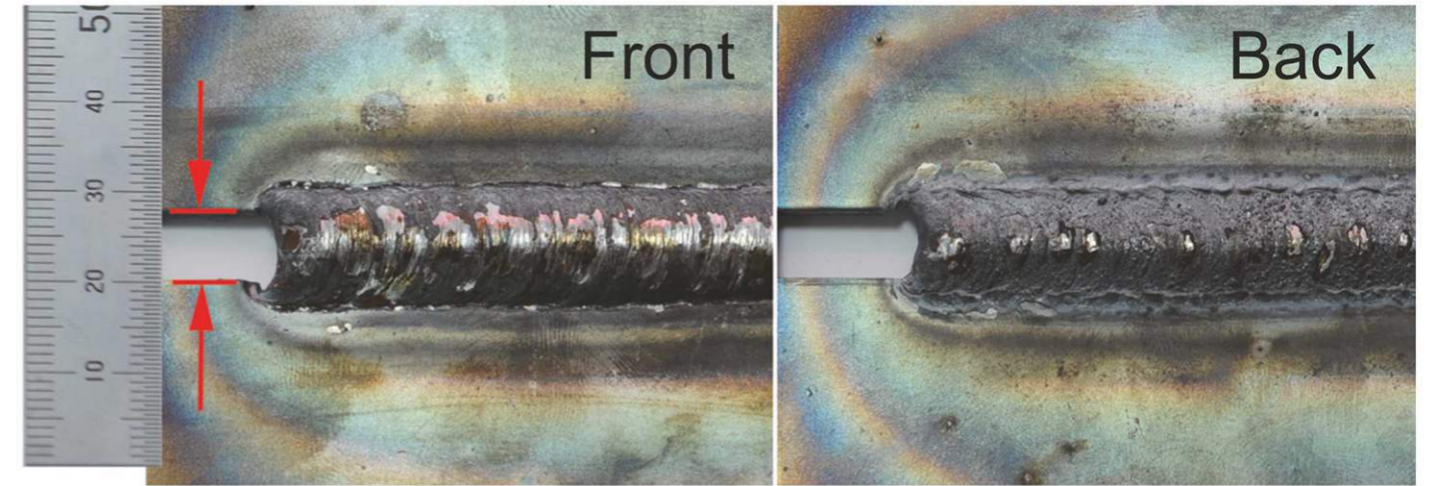
- The wire extension length changes between 10 and 30mm



Material: Fe; thickness: 4mm; Pulse MAG, Wire diameter 1.2mm, 180A / 23.2V

Root (Root welding)

Root is a short circuit transfer method with low heat input. The precise waveform control makes the arc more stable, heat input lower and droplet transfer more uniform, thereby the arc bridging ability is greatly improved. This function is especially suitable for large gap welding, the root pass of the bevelled work piece and vertical upward welding. For backing welding, the amount of root cleanliness can be greatly reduced; even clean-up process can be totally omitted. The appearance of penetrated back weld is smooth and even. The weaving movement can be reduced or even unnecessary for vertical upward welding.



Wire Feeder Types

Standard Type Wire Feeder



Box Type Wire Feeder (Optional)



- Double digital displays
- Ergonomic design for convenient holding
- Applicable wire spool weight: 20 Kg, Outer dia: max 300 mm, Shaft dia: 50 mm, Width: max 105 mm
- 4-Roll 2-Drive
- Cable length standard 1.8 m. 5 m, 10 m, 15 m (Optional)

- Fully enclosed wire spool and dust-proof space
- Double digital displays
- Welding parameters setting
- Handle for more convenient holding
- Applicable wire spool weight : 20 Kg, Outer dia: max 300 mm, Shaft dia: 50 mm, Width: max 105 mm
- 4-Roll 4-Drive
- Wire dia: 1.2 mm & 1.6 mm (0.8 mm & 1.0 mm optional)
- Cable length choice: 2 m, 5 m, 10 m, 15 m, 20 m