

POWER SOURCE

Item	Units	YD-350GL5	YD-500GL5
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	
Rated input capacity	KVA/KW	17.6/13.5	29.9/23.9
Output characteristics	-	CV (Constant voltage characteristics)	
Rated output current	A	Pulse OFF: DC 350 / Pulse ON: DC 350	Pulse OFF: DC 500 / Pulse ON: DC 400
Rated output voltage	V	31.5	39
Rated duty cycle	%	60	
Rated output no-load voltage	V	DC 80	
Output current range	A	Pulse OFF: DC 40-430 / Pulse ON: DC 40-350	Pulse OFF: DC 60-500 / Pulse ON: DC 60-400
Output voltage range	V	Pulse OFF: 16-35.5 / Pulse ON: 16-31.5	Pulse OFF: 17-39 / Pulse ON: 17-34
Welding method	-	Individual/Unitary	
Enclosure protection class	-	IP23S	
Insulation class	-	Main transformer 155°C (Inductor 200°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	-	channels can be called, welding parameters recordable	
Sequence	-	Welding/welding-crater/initial-weldingcrater/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)	762 X 380 X 612 (LWH)
Mass	Kg	68	75
Ordering code	-	YD-350GL5DJE	YD-500GL5HGY

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-50DGIDNG	

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.

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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



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Panasonic

YD-350/500GL5

Full Digital Controlled Pulse
MIG/MAG Welding Machine



**MILD
STEEL**
**STAINLESS
STEEL**

IBC
Ini Arc & BBK Control

ALC
Arc Length Consistence

Root
Root Welding

HL-Pulse
High & low pulse

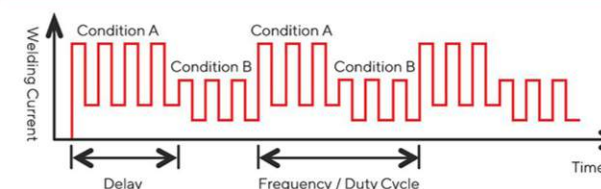
S-Pulse
Stainless steel pulse

**Welding process
Software**

High grade welding method & process software

HL-Pulse Pulse Control Technology

Namely dual pulse, alternate energy output, reduced heat input, improved appearance Digital

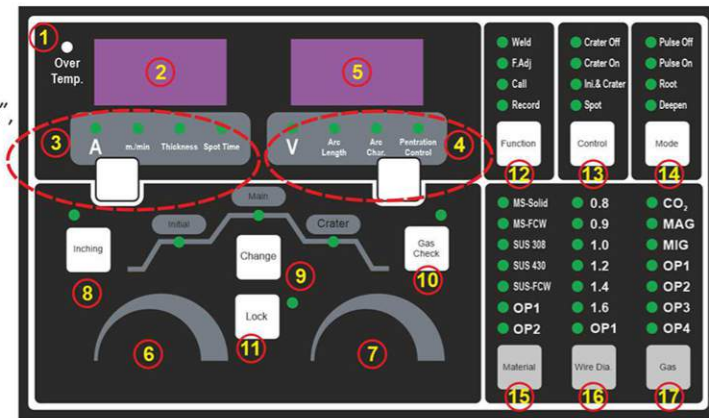


HL-Pulse MIG/MAG is capable of producing TIG like welds. Exceptionally good-looking, shiny and clean. It has all the same benefits as single pulse MIG/MAG welding. But it also provides slightly better heat control and makes the fish scale-like welds happen without weaving movements.

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

RoHS
Restriction of Hazardous Substances

- 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

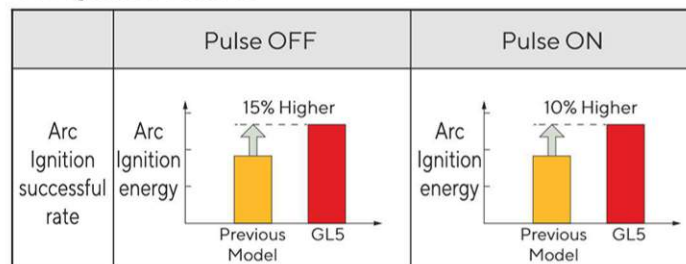


Welding Method and Process Software

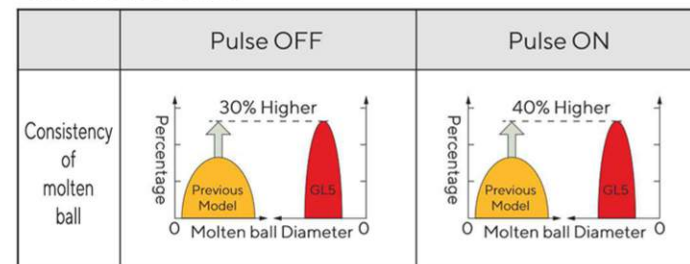
IBC (IniArc and BBK Control, the arc ignition and burn-back control)

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

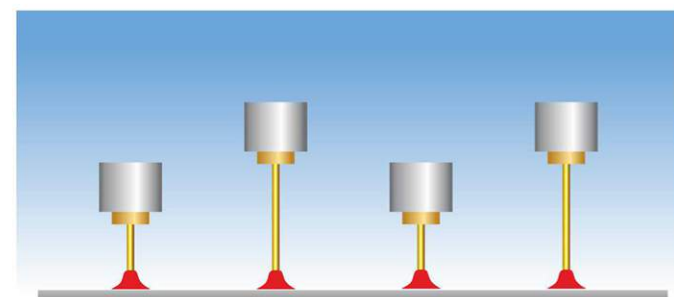


Burn-back Control



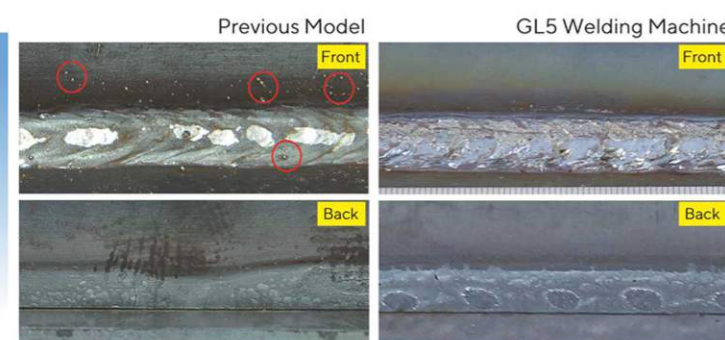
Pulse constant arc length control **ALC** (Arc Length Consistency)

During the welding process, the pulse 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 uniform pulse frequency makes the welding sound softer, which greatly reduces the noise generated by welding. The strictly control on the one pulse one droplet transfer improves the welding quality and reduces the welding defects.



Varying wire extension, constant arc length

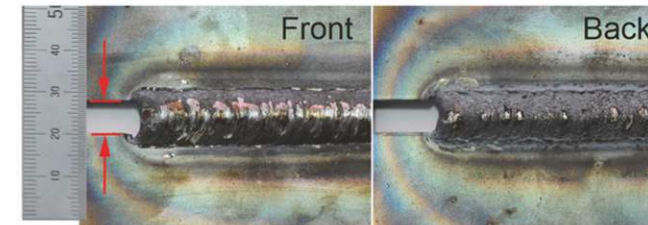
• The wire extension length changes between 10 and 30mm



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

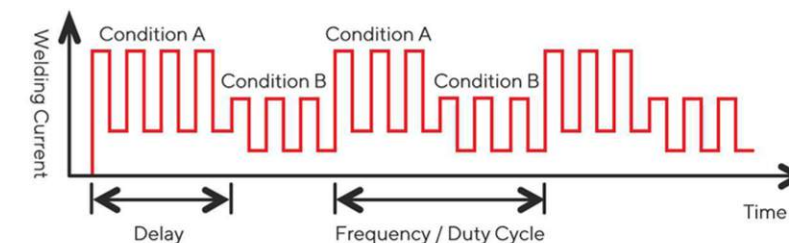
Root (Root welding)

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 cleanness 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.



HL-Pulse (Dual pulse)

HL-Pulse is also called dual pulse, overlying low frequency pulse on high frequency pulse. The fast welding is enabled during high pulse cycle and heat input is reduced during low pulse. The adjustable alternating heat input makes the fish scale-like welds happen without weaving movements. This function is commonly used for welding of thin stainless steel plates.



Wire Feeder Types

Standard Type Wire Feeder



S-Pulse (SUS pulse)

S-Pulse function takes full use of various stainless steel welding data. According to the difference in welding characteristics of three and four series stainless steel materials, the special welding data can be automatically retrieved, realizing smooth droplet transfer followed by stable welding with light spatter, as a result the beautiful appearance achieves.

3-series stainless steel welding effect



4-series stainless steel welding effect



Box Type Wire Feeder (Optional)

- Dust preventive and Rain water preventive
- Operator Safety
- Outdoor and Indoor performance



Ideal for fabrication in dusty area