





www.bangkokwelding.com info@bangkokwelding.com

Flexible welding performance and easy operation Bringing Full Digital closer to you!



350GR3

Panasonic pursues "Only one" welding.

Full Digital Controlled Welding Machine

Fusion of high grade welding of Full Digital control and simple operability of conventional analog welding machines

The spirit of th

Comfort

 GR3 realized smooth and comfortable arc by fine control of Full Digital technology. It provides fine and stable arc by wide current range from 30A to 350A. GR3's high quality adjustment function enables fine adjustment of penetration and realizes ideal welding waveforms.

Stability on low current area (50A-120A) (characteristic feature of Full Digital control)



Fillet weld (mild steel, 1.0mmt)

Welding current: 80A, Welding voltage: 18V
Wire dia.: 1.2mm, Shielded gas: CO2

Improved weldability of stainless steel



Fillet weld (stainless steel, 9.0mmt)

[Welding current: 250A, Welding voltage: 24.2V]

Wire dia.: 1.2mm, Shielded gas: Ar + 2%O2

• GR3 enables quick and instantaneous arc start by starting technology in a short period of time and FTT control, which reduces the ball on the end of the welding wire at the end of the weld.

Repeatability

- Wire feed motor with encoder realizes accurate wire feeding and maintains stable wire feed performance.
- GR3's set value of wire feed speed is maintained even if the primary input voltage fluctuates or the ambient temperature is changed This allows high quality welding and makes the bead appearance straight.
- GR3 re-creates the welding conditions precisely at anytime and anywhere.



Encoder motor

Wire spool shaft with brake

Operability

- GR3's touch panel enables easy operation. The layout of front panel is similar to conventional machines. Therefore the operator need not hustle to get used to.
- GR3 adopted same type of remote controller as conventional analog welding machines equipped.

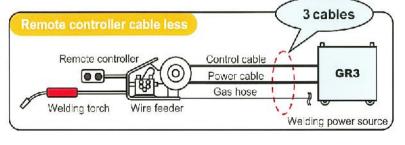


Mobility

 GR3 has no remote controller cable between wire feeder and welding power source. This contributes to improve the working efficiency by decreasing a load on transportation. The cable is connected with wire feeder.

Friendly to the earth

 GR3 has Energy-saving function as a standard equipment. The circuit starts about 7 minutes after when the torch switch is turned off and reduces the standby energy.



• To preserve the earth environment, Matsushita Welding Systems Co., Ltd. has adopted lead free solder for the production of printed circuit boards of all her products. Also we are striving to comply with RoHS Directives.



Other useful functions

1. Welding condition memory function

GR3 can save and load the welding conditions precisely. This function is helpful to manage the welding conditions
and will reduce the set up time. 9 schedules can be stored.

2. Leg length control function

• This function compensates unstable tip-to-work distance. 350GR3 keeps bead width constant.

3. Abundant welding condition table

 GR3 series have abundant welding condition tables. 11 kinds of tables are equipped on 350GR3.

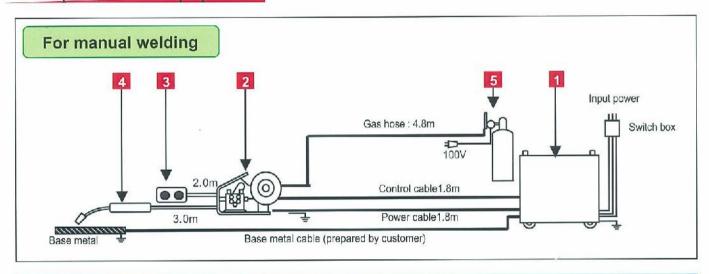
4. Robust chassis and compact design

 GR3 improved durability, dust resistance and maintenance simplicity by separating control part and main circuit in the body.

<Table for 350GR3>

Wire	Mild :	steel	Stainles steel	
diameter	Solid	FCW	Solid	FCW
0.8 mm	0		0	
0.9 mm	0		0	0
1.0 mm	0		0	
1.2 mm	0	0	0	0

Composition of equipment



350GR3

1 Welding power source YD-350GR3Y**

Model number of power source differs by input voltage and specifications.

2	Wire feeder
4	vviie leeuer
	YW-35DG1

*YW-35GD1 is standard model. Model number of wire feeder differs by specifications.

3	Remote controller	
	YD-35GRR1	

4 Welding torch				
Model	Rated current	Cable length	Applicable wire dia.(mm)	Duty cycle (%)
YT-18CS3	180A	3m	0.8	40(CO ₂)/20(MAG)
YT-20CS3	200A	3m	0.9/(1.0)/(1.2)	50(CO2)/25(MAG)
YT-35CS3	350A	3m	(0.9)/(1.0)/1.2	70(CO ₂)/35(MAG)
YT-35CE3	350A	3m	(0.9)/(1.0)/1.2	30(CO ₂)/20(MAG)
YT-35CSM3	350A	4.5m	(0.9)/(1.0)/1.2	70(CO ₂)/35(MAG)
YT-35CEM3	350A	4.5m	(0.9)/(1.0)/1.2	30(CO ₂)/20(MAG)
YT-35CSL3	350A	6m	1.2	70(CO ₂)/35(MAG)

Gas regulator		
Model	Applicable welding method	
YX-25AD1	CO ₂ /MAG/MIG	
YX-20CH1	CO2/MAG	
YX-25CC1	CO ₂	

6 Option (Connection cable)				
Model	Cable dia.	Cable Length	Duty cycle	Note
YV-610GR3A	60mm²	10m	60% at350A or less	Connection cables can not be connected with other connection cables for extension. Please choose most suitable length.
YV-615GR3A		15m		
YV-620GR3A		20m		
YV-305GR3A	38mm²	5m	50% at 250A or less	
YV-310GR3A		10m		
YV-315GR3A		15m		
YV-320GR3A		20m		

(Connection cable includes a power cable, a control cable and a gas hose.)

(Note) Model numbers and specifications are subject to change without notice.

Please ask sales staff about the detailed specification and configuration.

^{*}Optional parts are required in case of using the wire marked *()".

Rated specifications

Welding power source

Model		YD-350GR3Y**		
Rated frequency	Hz	50/60		
Transaction of the control of the co	kVA	17		
Rated input	kW	16		
Rated output current	A	DC350		
Rated output voltage	V	DC36		
Rated duty cycle	%	60		
Adjustable range of output current	A	DC30 - 350		
Adjustable range of output voltage	V	DC12 - 36		
Control method	2	IGBT inverter		
Memory function	-	9 ch		
Adjustable welding wire diameter	mm	0.8 / 0.9 / 1.0 / 1.2		
Preflow time	S	0.0-5.0 (adjustable by 0.1 sec.)		
Postflow time	S	0.0 – 5.0 (adjustable by 0.1 sec.)		
Arc spot time	S	0.3 –10.0 (adjustable by 0.1 sec.)		
Dimensions (W) x (D) x (H)	mm	380 x 540*x 640		
Weight	kg	45		

^{*}Input terminal cover is not included.



We provide the products friendly to the environment.

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



Safety precautions

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

Matsushita Welding Systems Co., Ltd.

Overseas 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.co.jp/mwsc/en/findex.html

Panasonic Factory Solutions Company of America

909 Ashury, Buffalo Grove, IL 60089 USA TEL:1-888-PANWELD / 1-847-495-6100 http://www.panasonicfa.com

Panasonic Welding Systems (Tangshan) Co., Ltd.

Tangshan New & Hi-Tech Development Zone, 063020 Tangshan, Hebei, China TEL:86-315-3206066 FAX:86-315-3206070 http://www.tsmi.com.cn/

Panasonic Factory Solutions Europe

Robot & Welding Systems

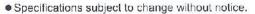
Harkortstrasse 9-13, 40880 Ratingen Germany TEL:49-2102-94213-240 FAX:49-2102-94213-200 http://www.panasonic-industrial.com

Panasonic Industrial (Thailand) Ltd.

252/133 Muang Thai-Phatra Complex Building, 31st Fl. Rachadaphisek Rd., Huaykwang, Bangkok 10320 **Thailand** TEL:662-693-3421 FAX:662-693-3427



www.bangkokwelding.com info@bangkokwelding.com



Catalogue No.

WSGR3.AAB

