

# Panasonic

Welding Machine  
Robot  
Laser Welding System

IGBT-controlled AC/DC TIG welding machine

## YC-300WY4

### High End Models that Make Welding with High Quality for a Variety of Materials

- Application can be expanded to various aluminum by changing over AC output frequency
- Various work can be treated with different welding modes
- Versatile function for many applications

# WY4



Panasonic pursues *Only one* in welding



**Application can be expanded to various aluminum by changing over AC output frequency**

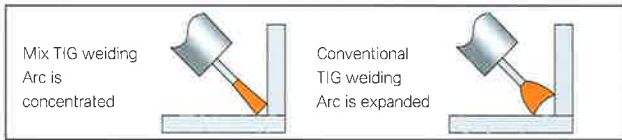


(aluminum bronze) (aluminum alloy No.7000 5series)

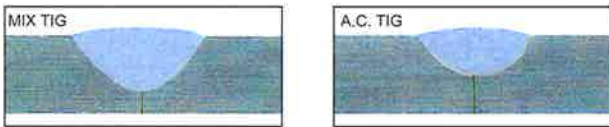
- Concentrated arc is obtained with "high" AC output frequency. Effective for welding of hard aluminum such as No. 6000 and No.7000 and aluminum bronze.
- Effective for wide application from thin plate to various aluminum alloys with "low" AC output frequency.

**Various work can be treated with different welding modes.**

- Mix TIG welding (Aluminum)
  - As concentration of arc is excellent, welding is performed effectively for fillet (overlapping) joint welding for thin aluminum plates.



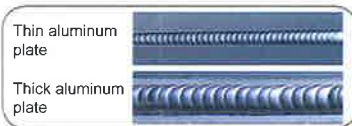
- Since DC TIG gets in AC TIG, deep penetration is achieved.



- Wear of electrode is significantly reduced.



- AC standard TIG welding
  - Handles various forms of works from thin plates to thick plate.
- AC soft TIG welding
  - Low arc noise with soft arc.



- AC hard TIG welding
  - Concentrated arc can be obtained.
  - Effective for welding of thin plate gap joint.



- DC manual welding

© You can choose the optimum mode for your application.

Welding mode	Item	Thin plate butt	Thin plate fillet	Thin plate gap	Thick plate butt	Thick plate fillet
Mix mode		○	○	○	○	○
AC standard TIG mode		○	○	○	○	○
AC hard TIG mode		○	○	○	○	○
AC soft TIG mode		○	△	△	○*	○*

※ There is output limitation

**Specifications**

Model		YC-300WY4	YC-500WY4
Control mode	-	IG8T	
Input power frequency	Hz	50/60	
Rated input	DCTIG	kVA/	10.5/9
	ACTIG	kW	21 .5/19
Rated duty cycle (10 minute cycle)	%	40	60
DC no-load voltage	V	"With" Electric shock prevention:14, "Without":63	"With" Electric shock prevention:14, "Without":71
AC no-load voltage	V	63	71
Rated DC output current ※	TIG welding	A	4~300
	Manual welding	A	4~250
Rated DC output current ※	Mix TIG	A	10~300
	AC standard TIG	A	10~300
	AC hard TIG	A	20~300
Rated DC output voltage	Manual welding	V	10.2~22
	Mix TIG	V	10.2~22
	AC standard TIG	V	10.4~21
Rated AC output voltage	AC hard TIG	V	10.8~22
	AC soft TIG	V	10.4~18
	Mix TIG	V	10.4~22
AC standard, mix, initial crater current	A	10~300	20~500
AC soft, initial crater current	A	10~200	20~330
AC hard, initial crater current	A	20~300	40~500
DC, initial crater current	A	20~300	5~500
Initial current control	-	Available for Crater ON & REPEAT	
Upslope time	sec.	0 or 0.1 to 5	
Downs lobe time	sec.	0 or 0.1 to 10	
Gas pre-flow time	sec.	0.3	
Gas after-flow time	sec.	2~20	
Welding method in which cleaning range can be adjusted	-	AC standard TIG, AC soft TIG, AC hard TIG. Mix TIG	
Pulse frequency	Middle pulse	Hz	10~500
	Low pulse	Hz	0.5~25
Pulse width	%	15~85	
Mix TIG frequency	Hz	0.5~10	
Crater control method	-	Crater ON / OFF / REPEAT	
External dimensions (W x D x H)	mm	380×530×730	440×635×945
Mass	kg	74	113

**Versatile function for many applications**

- Cleaning width is controlled,
- Enhanced pulse control.

**Many features for welding sites**

- You can weld with an extension cable of 40 m long.
  - Depending on welding current, thickness of cable, rolling way of cable, base material, arc length.
- Equipped with error detection functions.
  - Input side voltage error
  - Cooling water shortage
  - Temperature rise
  - Input side over current
  - Output side excessive current.

**Safety precautions**

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



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