

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)

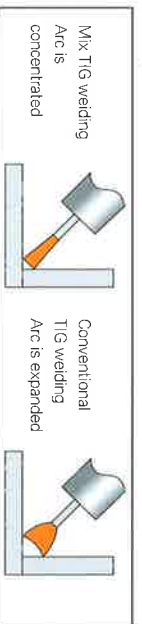


(aluminum alloy No. 7000 Series)

- 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.



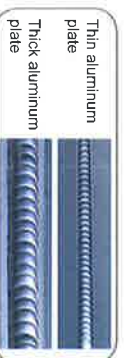
- Since DC TIG gets in AC TIG, deep penetration is achieved.



- 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 joint.

- DC manual welding



● You can choose the optimum mode for your application.

Welding mode	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		YG-500WY4	
Control mode	-		IGBT	
Input power frequency	Hz		50/60	
Rated input	DCTIG	kVA/	10.5/9	21.5/19
	ACTIG	kW	11.5/10	29.5/22.5
Rated duty cycle (10 minute cycle)	%		40	60
DC no-load voltage	V		"With" Electric shock prevention: 14, "Without": 63	
AC no-load voltage	V		63	71
Rated D C output current ※	TIG welding	A	4-300	5-500
	Manual welding	A	4-250	50-400
Rated D C output current ※	Mix TIG	A	10-300	20-500
Rated D C output current ※	AC standard TIG	A	10-300	20-500
	AC hard TIG	A	20-300	40-500
	AC soft TIG	A	10-200	20-330
Rated D C output voltage	TIG welding	V	10.2-22	10.2-30
	Manual welding	V	20.2-30	22-36
Rated AC output voltage	Mix TIG	V	10.4-22	10.8-30
	AC standard TIG	V	10.4-21	10.8-30
	AC hard TIG	V	10.8-22	22-30
	AC soft TIG	V	10.4-18	10.8-23
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		
Downslope 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)	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.

Panasonic

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