

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 OWE** in welding

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



(aluminum bronze)

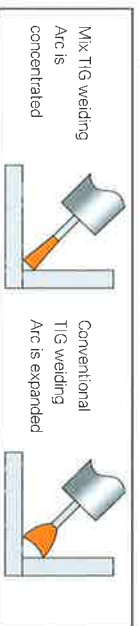


(aluminum alloy No. 7000 Series)

- 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.



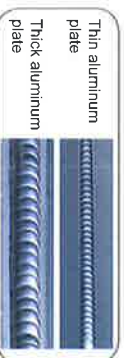
• Since DC TIG gets in AC TIG, deep penetration is achieved.



- 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 gap joint.
- DC TIG welding
 - (Stainless steel/ DC low frequency welding)



- 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	YC-500WY4
Control mode	-	IGBT
Input power frequency	-	50/60
Rated input	DCTIG ACTIG	10.5/9 21.5/19 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 Manual welding	4-300 5-500 4-250 50-400
Rated D C output current ※	Mix TIG	10-300 20-500
Rated D C output voltage	AC standard TIG AC hard TIG AC soft TIG	10-300 10-300 10-200 20-330
Rated D C output voltage	TIG welding Manual welding	10.2-22 20.2-30 10.2-22 22-36
Rated AC output voltage	Mix TIG AC standard TIG AC hard TIG AC soft TIG	10.4-22 10.4-21 10.8-22 10.4-18 10.4-23
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
Downs llope 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 Low pulse	10-500 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.

Panasonic

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