

Panasonic

Welding Machine
Robot
Laser Welding System

IGBT-controlled AC/DC TIG welding machine

YC-300WY

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



Panasonic pursues *Only one* in welding

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

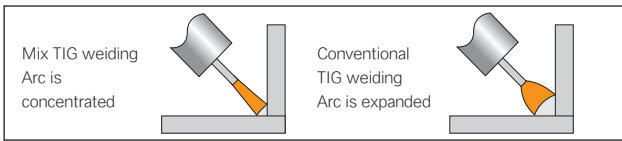


(aluminum bronze) (aluminum alloy No.7000 5series)

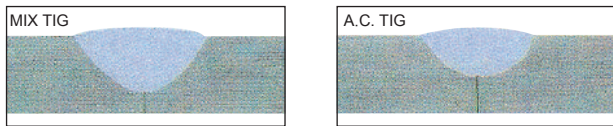
- Concentrated arc is obtained with "high" AC output frequency. Effective for welding of hard aluminum such as No. 6000 and No.7000 and aluminum bronze.
- Effective for wide application from thin plate to various aluminum alloys with "low" AC output frequency.

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.



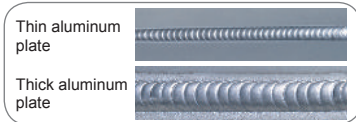
- Since DC TIG gets in AC TIG, deep penetration is achieved.



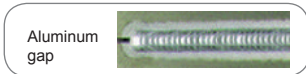
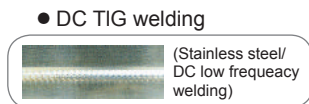
- Wear of electrode is significantly reduced.



- 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-300WY	YC-500WY4
Control mode	-	IG8T	
Input power frequency	Hz	50/60	
Rated input	DCTIG	kVA/kW	10.5/9
	ACTIG		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
	Mix TIG	A	10~300
	AC standard TIG	A	10~300
Rated DC output voltage	AC hard TIG	A	20~300
	AC soft TIG	A	10~200
	TIG welding	V	10.2~22
	Manual welding	V	20.2~30
Rated AC output voltage	Mix TIG	V	10.4~22
	AC standard TIG	V	10.4~21
	AC hard TIG	V	10.8~22
	AC soft TIG	V	10.4~18
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		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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