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 ferequency
- 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 ferequency





(aluminum bronze)

(aluminum alloy No.7000 5eries)

- 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 "Iow" 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



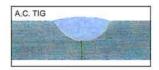






· Since DC TIG gets in AC TIG, deep penetration is achieved.

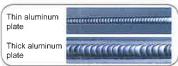




• Wear of electrode is signiticantly reduced.



- 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



DC manual welding

			-		
Item Welding mode	Thin plate butt	Thin plate fillet	Thin plate gap	Thick plate butt	Thick plate fillet
Mix mode	0	0	0	0	0
AC standard TIG mode	0	0	0	0.	α
AC hard TIG mode	0	0	0	0	0
AC soft TIG mode	0	Δ	Δ	0*	0

There is output limitation

Specifications

Control mode	Model			YC-300WY4	YC-500WY4	
Rated input DCTIG ACTIG kVA/ ACTIG 10.5/9 21.5/19 Rated duty cycle (10 minute cycle) 40 60 DC no-load vollage V "With" Electric shock prevention:14, "Without":71 AC no-load voltage V 63 71 AC no-load voltage V 63 71 Rated DC output current ** Manual welding A 4-300 5-500 Rated DC output current ** AC standard TIG A 10-300 20-500 Rated DC output current ** AC standard TIG A 10-300 20-500 Rated DC output voltage AC soft TIG A 10-300 20-500 Rated DC output voltage AC soft TIG A 10-300 20-500 Rated DC output voltage Manual welding V 10.2-22 10.2-30 Rated DC output voltage Minual welding V 10.2-22 10.2-30 Rated AC output voltage AC standard TIG V 10.4-22 10.8-30 Rated AC output voltage AC standard TIG V 10.4-22	Control mode			IG8T		
Rated duty cycle (10 minute cycle)	Input power frequency		Hz	50.	/60	
ACTIG KW 11,5/10 29,5/22,5 Rated duty cycle (10 minute cycle) 40 60 Croil	Rated input	DCTIG		10.5/9	21 .5/19	
Cycle	realca input	ACTIG	kW	11,5/10	29,5/22,5	
DC no-load voltage			%			
Rated DC output current Manual welding	DC no-load vollage		V	shock prevention:14,	shock prevention:14,	
output current ※	AC no-load voltage		V	63	71	
Rated DC Output current A 10-300 20-500			Α	4~300	5~500	
Rated DC output current			А	4~250	50~400	
output current			Α	10~300	20~500	
AC soft TIG	output cur-		А	10~300	20~500	
Rated DC output voltage		AC hard TIG	Α	20~300	40~500	
output voltage Manual welding V 20,2~30 22~36 Mix TIG V 10,4~22 10,8~30 AC standard VIG V 10,4~21 10,8~30 AC standard, mix, initial crater Urrent V 10,4~21 10,8~30 AC standard, mix, initial crater Urrent A 10~300 20~500 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 lope time sec. 0.3 Gas after-flow time sec. 2~20 Welding method in which cleaning range can be adjusted - Pulse frequency Middle pulse 10~500 <tr< td=""><td>AC soft TIG</td><td>Α</td><td>10~200</td><td>20~330</td></tr<>		AC soft TIG	Α	10~200	20~330	
Mix TIG V 10,4~22 10,8~30		TIG welding	V	10,2~22	10,2~30	
Rated A C Output voltage			V	20.2~30	22~36	
output voltage AC hard TIG V 10.8~22 22~30 AC soft TIG V 10.8~22 22~30 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 lope time sec. 0.3 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 10~500 Low pulse Hz 0.5~25 Pulse width % 15~85 Mix TIG frequency Hz 0.5~10 Crater control method - 380×530×730 440×635×045 <td></td> <td>Mix TIG</td> <td>V</td> <td>10,4~22</td> <td>10,8~30</td>		Mix TIG	V	10,4~22	10,8~30	
AC soft TIG V 10.4~18 10.8~23	output volt-		V	10.4~21	10.8~30	
AC standard, mix, initial crater current AC soft. initial crater		AC hard TIG	V	10.8~22	22~30	
ter 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 lope time sec. 0.3 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 Hz 10~500 15~85 Pulse width % 15~85 Mix TIG frequency Hz 0.5~10 Crater control method - Crater ON / OFF / REPEAT External dimensions (W x D 380×530×730 440×635×945		AC soft TIG	V	10.4~18	10.8~23	
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 lope 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 Hz 10~500 15~85 Pulse width % 15~85 Mix TIG frequency Hz 0.5~10 Crater control method - Crater ON / OFF / REPEAT External dimensions (W x D mm 380×530×730 440×635×945			Α	10~300	20~500	
rent 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 lope time sec. 0.3 Gas pre-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 Hz 10~500 15~85 Pulse width % 15~85 Mix TIG frequency Hz 0.5~10 Crater control method - Crater ON / OFF / REPEAT External dimensions (W x D mm 380×530×730 440×635×945	AC soft. initial crater current		Α	10~200	20~330	
Initial current control			Α	20~300	40~500	
Upslope time	DC, initial crater current		Α	20~300	5~500	
Downs lope time	Initial current control		2	Available for Crater ON & REPEAT		
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 Hz 10~500 Pulse width % 15~85 Mix TIG frequency Hz 0.5~10 Crater control method - Crater ON / OFF / REPEAT External dimensions (W x D mm 380×530×730 440×635×945	Upslope time		sec.	0 or 0.1 to 5		
Gas after-flow time	Downs lope time		sec.	0 or 0.1 to 10		
Welding method in which cleaning range can be adjusted Pulse frequency Low pulse Pulse width Mix TIG frequency Hz Crater control method External dimensions (W x D mm 380x530x730 440x635x945	Gas pre-flow time		sec.	0.3		
Cleaning range can be adjusted			sec.	2~20		
quency 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 mm 380×530×730 440×635×945	cleaning range can be ad-		×			
Quency 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 mm 380×530×730 440×635×945			Hz	10~500		
Mix TIG frequency Hz 0.5~10 Crater control method - Crater ON / OFF / REPEAT External dimensions (W x D mm) 380×530×730 440×635×945				0.5~25		
Crater control method - Crater ON / OFF / REPEAT External dimensions (W x D mm 380×530×730 440×635×945	Pulse width		%	15~85		
External dimensions (W x D mm 380×530×730 440×635×945	Mix TIG frequency		Hz	0.5~10		
1 mm 380x530x730 440x635x945			5	Crater ON / OFF / REPEAT		
X11)	External dimensions (W x D x H)		mm	380×530×730	440×635×945	
Mass kg 74 113	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.
 - X 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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