Panasonic



www.bangkokwelding.com info@bangkokwelding.com

Thyristor Controlled AC/DC Pulse TIG Arc Welder



One Welder Operates

One Welder Operates

Like Nine Welders and Applicable

to Wide Variety of Welding.





Model YC-300WP-5



One class high ability with Multi-Purpose welding functions.













w/Robot







FEATURES

1. It has good output characteristics, stable arcing performance from the small current to rated current for welding of various thicknesses of plates, especially suitable for thin plates.



2. Very useful as power source for Butt welding of thick plate and pipe which needs high quality and penetration bead.



SPECIFICATIONS

			PANA-TIG	
			WP-300(with Pulse)	
Rating			YC-300WP-5	
Input		kVA	33.4/15.9(1¢50/60Hz)	
Duty cycle		%	35*	
DC no load votage	THE REAL	V	70	
AC no load voltage		V	76	
DC output current	TIG	А	5~315	
	Manual		5~315	
DC output voltage	TIG	V	10.2~22.6	
	Manual		20.2~32.6	
AC output current	TIG	А	5~315	
	Manual		5~315	
AC output voltage	TIG	V	10.2~22.6	
	Manual		20.2~32.6	
DC initial&crater cur	DC initial&crater current(TIG)		5~315	
AC initial&crater cur	rent(TIG)	A	15~315	
Initial current contro			Available when Crater control On or Repetition	
UP slope control tim	ie	sec.	0,0.1~6(Continuously)Adjustable to without control(by P	
Down slop control ti	me	sec.	0,0.2~10(Continuously)Adjustable to without control(by P.C.	
Gas pre-flow time		sec.	0.3	
Gas after-flow time		sec.	5~25(Continuously)	
Arc spot time adjust	ment	sec.	0.5~5(Contiuously)	
Cleaning width adju	stment		Adjustable with AC TIG welding	
Pulse frequency		Hz	0.5~10(Continuously)	
Dimensions(WxDxH)		mm	465 x 846 x 617	
Weight		kg	193	
Remote controller			YC-304URW(cable length 4m)	
Encloser standard			IP21S	

The * mark shows in case of DC manual welding, DC TIG welding and AC TIG welding which is adjusted to [WIDE] side of cleaning width control. Please inform us of primary voltage.

3. High quality welding, constant penetration and stable welding bead can be obtained by the good arc concentration.



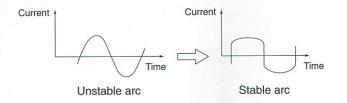
4. Very easy to operate vertical welding, TIG filler welding operation, tack welding for thin plate and repeated short length welding, etc... by heat capacity control of pulse current. So, high efficiency welding can be done.



- 5. Fine treatment and increase the weld quality of welding start / finish with Up-slope control and Downslope control.
- 6, Precisely controls the arc conditions for AC/DC manual welding of stainless-steel, special steel such as Cr-Mo steel by means of refined electronics techniques so that optimum dynamic characteristics can be obtained.
- 7. By using cleaning width adjustor, more oxide can be effectively removed at low welding current while the loss of tungsten electrode can by reduced at high welding current.

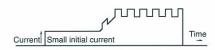


8. Equipped with advanced reactor control technology, its AC square wave output becomes very stable and stability is thus enhanced considerably, thereby high welding quality is obtainable.



High quality welding result with Pulse TIG welding for all applications.

Initial current control



To prevent burn through for thin plate welding.
 For confirmation of arc start point.



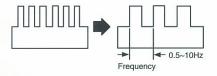
 To prevent incomplete penetration for thick plate welding.

Up-slope time control

 To improve the weld quality at welding start by smooth changing from initial current to welding current with Up-slope time control.

Pulse frequency control

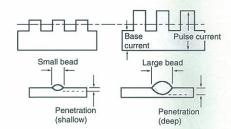
 To change number of welding bead ripples and bead breadth.



- Three kinds of crater treatment control
- Gas afterflow time control

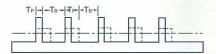
Pulse current control

· Able to choose any pulse current as you like.



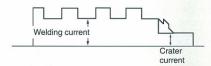
Pulse ratio control

 Penetration control is easy, because it can control average current keeping strong and stable arc with pulse TIG welding.

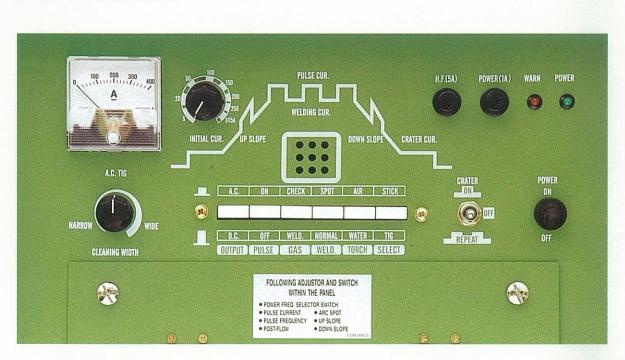


Down-slope time control

 Smooth ending of welding with Down-slope time control.



Arc spot welding time control



Please Use in Combination with Following Equipment

TIG WELDING TORCH

High durable against heat. Perfectly airtight and watertight. Small, light and easy to manipulate.



ARGON GAS REGULATOR WITH FLOW METER

For reducing pressure of Argon in high pressure gas cylinder to the proper secondary pressure and for adjusting flow rate.

Max Pressure 200 kg/cm² Flow rate range 1~25 /min



MODELS AND RATINGS

	Model		YT-158THAE	YT-158THAF	YT-208THAE	YT-208THAF	YT-308TWHAJ	YT-308TWHAK
Cable length		m	4	8	4	8	4	8
Rated current	DC	Α	150 130		200		300	
nated current	AC	Α			160		260	
Duty cycle (10min.)	%	50		5	0	10	00
Usable electrode d		mmø	1.0,1		(1.0),1.		(1.0),(1.	
Usable nozzle dia	n	mmø	6.5, (9.5),((6.5 9.5,	Maria de la companya della companya	(6.5 9.5	Application of the second
Cooling water flow rate		L/min	_		-		0.	.7
Weight (approx.)		kg	1.2	2.0	2.0	3.2	1.8	3.0
Cooling Method			Air		A	ir	Wa	iter

^{*} Pistol type **Cooling water flow rate 0.7l/min pressure 1.0~3.0 kg/cm²

COOLING WATER TANK YX-09KBA1



REMOTE CONTROLLER YC-304URW

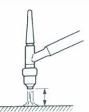
Optional Nozzles for TIG Welding



Usable Caliber Torch	9.5mm¢	12.7mm¢
YT-208T	Parts No.	Parts No.
YT-308TW	TGN 00908	TGN 01218

^{*} Use in combination with Collet body w/gas lens and adaptor

BIG CALIBER NOZZLE



Usable Caliber Torch	12.7mmø	16mmø	19mmø
YT-158T YT-208T YT-308TW	Parts No.	Parts No.	Parts No.
	TGN 01220	TGN 01674	TGN 01934

LONG NOZZLE

Usable Caliber Torch	8mm¢	11mmø
YT-158T	Parts No.	Parts No.
YT-208T YT-308TW	TGN 00816	TGN 01106

ARC SPOT NOZZLE



Usable Caliber Torch	Arc Spot Nozzle
YT-158T	Parts N0.
YT-208T YT-308TW	TGN 01809

^{*} Use in combination with adaptor for Arc Spot.

Electrodes for TIG Welding

A little consume of electrode, good arc startability and stability. Increase the working efficiency of TIG welding.



2% Thoriated tungsten electrode (DC TIG)	tungsten electrode (AC/DC TIG) Low consumption Nonradioactive	tungsten electrode (DC TIG) Low consumption Nonradioactive			
Manufactured by	Manufactured by	Manufactured by	Size	Size(mm)	
plain lathe	plain lathe			Length	
YN-05T2S	-	-	0.5	150	
YN-10T2S	YN-10L2S	YN-10L2S	1.0	150	
YN-16T2S	YN-16L2S	YN-16L2S	1.6	150	
YN-20T2S	YN-20L2S	YN-20L2S	2.0	150	
YN-24T2S	YN-24L2S	YN-24L2S	2.4	150	
YN-30T2S	-	YN-30L2S	3.0	150	
YN-32T2S	YN-32L2S	YN-32L2S	3.2	150	
YN-40T2S	YN-40L2S	YN-40L2S	4.0	150	
YN-48T2S	YN-48L2S	YN-48L2S	4.8	150	

2% Ceriumed 2% Lanthanumed

■ Extension Cable

Cable Length Applicable torch		5m	10m	15m
Air	YT-158T	TWU15125	TWU15126	TWU15127
Cooling	YT-208T	TWU20131	TWU20132	TWU20133
Water	YT-308TW	TWU30132	TWU30133	TWU30134
Cooling	YT-50TSW1	TWU50137	TWU50138	TWU50139

Tangshan Matsushita Industrial Equipment Co., Ltd.

Tangshan New & Hi-tech development zone, 063020, Tangshan, Hebei, China

Tel: (0315)3206066 3206069 Fax: 0315-3206070 3206018

Http:// tsmi.panasonic.cn E-mail: sales@tsmi.com.cn www.bangkokwelding.com info@bangkokwelding.com



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