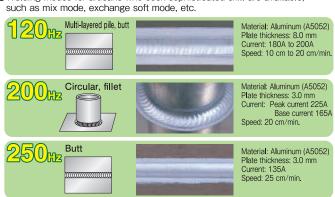
Full Digital AC/DC TIG Welding Machines

## New wave for aluminum welding More gentle, faster, more beautiful!

50 to 400 Hz AC output control changes aluminum welding.

An arc control at will improves aluminum welding technique.

- Difficult fillet welding can be made easily. Insertion of filler wire is easy too. Convergence of arc increases, burn through can be avoided and tack
- welding is made easy.
- Welding modes for artisans who seek sophisticated skill are available,



3(0)(0)<sub>HFZ</sub>

Material: Aluminum (A5052) Speed: 18 cm/min.

Fillet (tack welding of thin plate In case of 70 Hz (conventional and machine)

Material: Aluminum (A5052) Plate thickness: 1.0 mm Current: 110A Welding time: 0.5 sec.

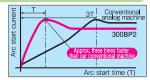




Material: Aluminum (A5052) Plate thickness: 3.0 mm Current: Peak current 260A Base current 140A Speed: 38 cm/min

#### Soft and fast arc start

Both in AC and DC welding, start is three times faster than conventional machines. Full digital high speed CPU control makes



#### Performance of DC welding is excellent.

Stable arc of same level with the full digital direct current TIG welder "300BZ3" is realized. Repeat arc finishing function is installed as a standard and responds to avoidance of start and finish arc damage. Multiple functions but operation is simple and easy to understand.

#### Simple and direct condition setting

Easy to understand condition setting.

Reproduction of welding conditions with high precision.

Downsizing and weight saving are realized. (69% of our conventional machine)

Connection with auxiliary devices is easy.

Connection with Panasonic robot TA series GII controller can be made easily.

Extension of cable up to 40 m (both way) is available.

(when set with 70 Hz standard frequency)

# 000000 YC-300BP2 0 0

300BP2

Rated specifications

■Rated specifications				
Model No.				YC-300BP2
Rated input voltage, rated frequency			_	3-phase, 200/220V (common), 50/60 Hz (common)
Rated input			_	10.5kVA 10.0kW
Rated output current			Α	DC/AC 300
Rated output vol	Itage		V	DC 20/AC 22
Rated duty cycle (10 minute cycle)			%	40
	DC TIG		Α	4~300
Welding current*		Standard	Α	10~300
	AC TIG	Hard	Α	20~300
		Soft	Α	10~200
	Mix TIG		Α	10~300
Maximum no-load voltage			V	DC 65
	DC TIG		Α	4~300
	AC TIG	Standard	Α	10~300
Initial current		Hard	Α	20~300
		Soft	Α	10~200
	Mix TIG		Α	10~300
	DC TIG		Α	4~300
		Standard	Α	10~300
Crater current	AC TIG	Hard	Α	20~300
		Soft	Α	10~200
	Mix TIG		Α	10~300
Pulse current	DC TIG		Α	4~300
	AC TIG	Standard	Α	10~300
		Hard	Α	20~300
		Soft	Α	10~200
	Mix TIG		Α	10~300
Up slope time			Sec.	0 to 10 (with unit of 0.1 sec)
Down slope time			Sec.	0 to 10 (with unit of 0.1 sec)
Gas pre-flow time			Sec.	0 to 10 (with unit of 0.1 sec)
Gas after-flow time			Sec.	0 to 30 (with unit of 0.1 sec)
(AC TIG) AC frequency			Hz	50 to 400 (standard: 70) (for range of 50Hz to 200Hz: unit of 1Hz) (for range of 200Hz to 400Hz: unit of 10Hz
(Mix TIG) Mix frequency			Hz	0.5 to 10 (standard: 1.0) (with unit of 0.1Hz)
(Mix TIG) DC ratio			%	10 to 90 (standard: 30) (with unit of 5%)
Pulse frequency			Hz	0.8 to 500 (for range of 0.8 to 9.9Hz: unit of 0.1Hz) (for range of 10 to 99Hz: unit of 1Hz) (for range of 100 to 500Hz: unit of 10Hz)
Pulse width				
1 dioc widin			%	5~95
Welding method in which o	cleaning range ca	n be adjusted	_	AC TIG, Mix TIG
	cleaning range ca	n be adjusted	<del>-</del>	AC TIG, Mix TIG EP 10 to 50 (standard: 30) (unit 1%)
Welding method in which of Cleaning range Arc spot time		n be adjusted	_	AC TIG, Mix TIG EP 10 to 50 (standard: 30) (unit 1%) 0.1~5(0.1秒単位)
Welding method in which of Cleaning range Arc spot time Crater control m	ethod	in be adjusted	<del>-</del>	AC TIG, Mix TIG EP 10 to 50 (standard: 30) (unit 1%) 0.1~5(0.1秒单位) Switching of "Yes", "No", and "Iterative"
Welding method in which of Cleaning range Arc spot time	ethod	n be adjusted	<del>-</del>	AC TIG, Mix TIG EP 10 to 50 (standard: 30) (unit 1%) 0.1~5(0.1秒単位)
Welding method in which of Cleaning range Arc spot time Crater control m	ethod function	in be adjusted	<del>-</del>	AC TIG, Mix TIG EP 10 to 50 (standard: 30) (unit 1%) 0.1~5(0.1秒单位) Switching of "Yes", "No", and "Iterative" RS-232C, RS-422 50ch memory, reproduction
Welding method in which of Cleaning range Arc spot time Crater control m Communication	ethod function	in be adjusted	<del>-</del>	AC TIG, Mix TIG EP 10 to 50 (standard: 30) (unit 1%) 0.1~5(0.1秒单位) Switching of "Yes", "No", and "Iterative" RS-232C, RS-422 50ch memory, reproduction Communication is possible with following our robot controller "TA series GII controller
Welding method in which or Cleaning range Arc spot time Crater control m Communication Memory function	ethod function n function		<del>-</del>	AC TIG, Mix TIG EP 10 to 50 (standard: 30) (unit 1%) 0.1~5(0.1秒単位) Switching of "Yes", "No", and "Iterative" RS-232C, RS-422 50ch memory, reproduction

In low current range, select adequate application conditions to stabilize arc

#### Power supply system capacity and required cable thickness

Item Welding PS		YC-300BP2			
Power voltage		200/220V common use 50/60 Hz common use			
Phase number	_	3-phase			
Device capacity (commercial)	kVA	10.5 or more			
Fuse capacity (B type) (no-fuse breaker)	Α	30(40)			
Input side cable (Terminal hole)	mm <sup>2</sup>	5.5 or more (for M5)			
Output side cable	mm <sup>2</sup>	38 or more*			
Ground cable	mm <sup>2</sup>	Equivalent to input side cable or above			

\*One-touch joint (Euro connector) included in accessory

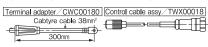
### Options (equipment required for each application) \*Also see the page of options (pages 10 and 11).

- ■TIG welding torch ●Air cooling type (200A), Euro connector YT-20TS1TAG (with cable 4 m)YT-20TS1TAH (with cable 8 m)
- ■Water cooling type (300A), Euro connector YT-30TSW1TAG (with cable 4 m) • YT-30TSW1TAH (with cable 8 m)
  - %See the page of options for adapter for red torch model 1, 8, 7
- and applicable torch

Applicable	Air cooling	Water cooling				
torch	YT-20TS1	YT-30TSW1				
Cable length	YT-20TS1C1	YT-30TSW1C1				
5m	TWU20131	TWU30132				
10m	TWU20132	TWU30133				
15m	TWU20133	TWU30134				

Sequencer interface/ external device connecting unit YX-CB009

■Extension cable (available on request) | ●When you use an extension cable, purchase the terminal adapter (CWC00180) and the control cable set (TWX00018) and connect them with this product.



- Cooling water unit
  OYX-09KGC1
- Remote controller for BZ3

  YC-30BMR1
  (with 12-core cable 5 m)
  (can be connected to 300BP2)

  Tungsten electrode
- (JIS:Z3233)(直径0.5~4.8mm)
- Argon gas regulator

  OYX-251A