

Panasonic
ideas for life

Full Digital DC TIG Welding Machine

300BZ3

Full Digital



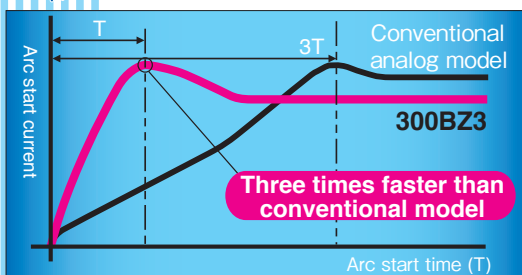
Full Digital control enables
high quality welding
by simple operation



Full Digital technology realizes comfortable welding operations

Fine and stable arc by accurate control of Full Digital improves the welding quality.

Quick and stable arc start



■ Initial rising speed of arc ignition is 3 times faster than conventional model.

■ The success rate of Instantaneous arc ignition is almost perfect even at low current range. (4ampere/TIG welding)

*Except the case of inadequate condition caused by shielded gas, workpiece, electrode, torch, etc.)

Stable arc even at 4 Amp

■ Full digital and high speed CPU control realize instantaneous control of welding current and stable performance even at 4A.

■ Concentrated and stable arc, less fluctuation

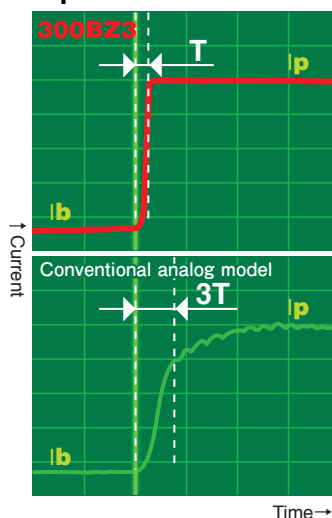
■ Bead appearance can be further improved by gas lens nozzle. (option)

■ Not only thick plate but also thin plate can be welded only by thick (2.4mm) tungsten electrode.



Preventing melt-through at arc start and end

■ Comparison of the rising speed of pulse current



Excellent bead, outstanding edge shape

■ The rising speed of pulse current is three times faster than conventional model.



<Condition>

Stainless steel (1.5mmt), Lap joint
Pulse current : 70A, Base current : 10A
Speed : 30cm/min.

Accurate control by Full Digital

■ The welding current can be set by 1 ampere.

■ BZ3 can reproduce the welding conditions precisely.



High quality welding by minimizing the fluctuation of welding conditions

<Condition>

Stainless steel (0.5mmt), Lap joint
Pulse current : 50A, Base current : 5A
Speed : 30cm/min.

Simple and speedy condition setting by touch panel & Jog Dial

Your favorite welding conditions can be set quickly.



Mode selection button

Welding conditions setting buttons

Welding conditions select buttons

Function selection buttons



Compact but authentic 300A model (duty cycle 40%)

- High grade welding for stainless steel, mild steel, titanium, copper, brass etc.
- Selectable from four welding method

- 1 DC TIG
- 2 DC PULSED TIG
- 3 DC ARC SPOT
- 4 DC STICK

*Arc spot nozzle (option) required

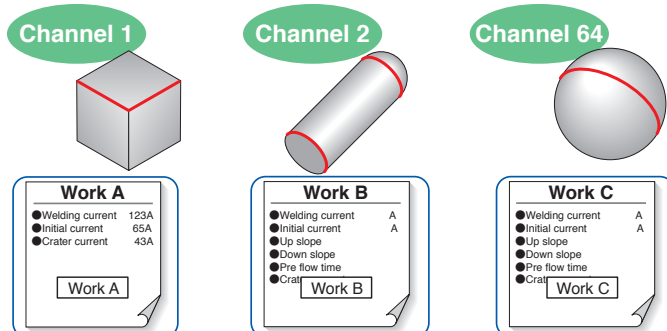
*Holder, input/output/ground cable → customer preparation



64 channels memory function

- 64 welding conditions can be stored and replayed.

It's convenient!



Simple connection

- BZ3 can be connected with Panasonic's G2 series robots by digital communication.

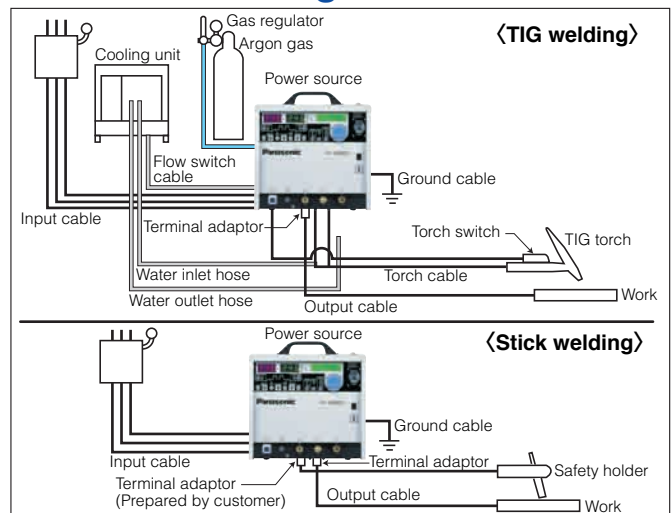


Necessary accessories

	TIG	STICK	DC ARC SPOT
Welding power source	○	○	○
TIG torch	●		●
Welding rod and holder		▲	
Gas regulator	●		●
Gas hose	○		○
Argon Gas	▲		▲
Arc spot nozzle			●
Power cable	▲	▲	▲
Ground cable	▲	▲	▲

○:standard, ●:option, ▲:prepared by customer

Connection diagram



Rated Specifications

Model		Standard model	CCC model for China	CE model for Europe
		YC-300BZ3YAA	YC-300BZ3YGD	YC-300BZ3YHD
Rated input voltage	VAC	200/220 (Common)	380	400
Number of Phase		3		
Rated frequency	Hz	50/60 (Common)		
Rated input	kVA	11.5	10.5	
	kW	10.2	9.5	
Maximum no-load voltage	V	DC69	DC65	DC70
Output current	TIG, SPOT	A	DC4 - 300	
	STICK	A	DC4 - 250	
Output voltage	TIG, SPOT	V	DC16 - 20	DC10 - 22
	STICK	V	DC20 - 30	
Duty cycle	%	40		
Pulse frequency	Hz	0.8 - 500	(0.8-9.9Hz:In increments of 0.1Hz) (10-99Hz:In increments of 1Hz) (100-500Hz:In increments of 10Hz)	
Pulse width	%	5 - 95		
Arc spot time	s	0.1 - 5 (increment:0.1s)		
Control method		IGBT inverter		
Communication function		RS-232C, RS-422		
Memory function		64ch storage and reproduction		
Dimension (W x D x H)	mm	380 x 380 x 260	380 x 510 x 410	
Mass	kg	19.5	36	

Options

External device connecting unit YX-CB009

This unit is used to select a stored welding condition using the connected external device such as sequencer.



Remote controller YC-30BMR1



Safety precautions ● Before attempting to use any welding product always read the manual to ensure correct use.



We provide the products friendly to the environment.

Aiming for the earth-friendly company, Panasonic Welding Systems Co., Ltd. has been promoting to disuse hazardous substances to our products as the company policy.

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● Specifications subject to change without notice.

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