Panasonic

Welding machine Robot Laser welding system

Full Digital Controlled DC TIG Welding Machine

400TX4

FULL DIGITAL

New Upgrade

Full Digital TIG Welding Machine



Panasonic pursues Only one in welding

Rated specifications

Model number			YC-400TX4HGH	YC-400TX4HJE
Rated input voltage		V	380	415
Number of phases		-	3	
Rated input voltage		V	380±10%	415±10%
Rated frequency		Hz	50/60	
Rated input	T I G	kVA	13.5	14.5
	Stick		17.85	21.4
Rated output	T I G	kW	12.8	12.4
	Stick		17	
Power factor			0.95	
Rated no-Load voltage		V	73	
Output current adjustable range	T I G	A	4～400	
	Stick	A	4～400	
Output voltage adjustable range	T I G	V	10.2～26	
	Stick	V	20.2～36	
Initial current		A	4～400	
Pulse current		A	4～400	
Crater current		A	4～400	
Rated duty cycle		%	60	
Control method			IGBT Inverter type	
Cooling method			Forced air-cooling	
High-frequency generator			Spark-oscillation type	
Pre-flow time		s	0～30	
Post-flow time		s	0～30	
Up-slope time		s	0～20	
Down-slope time		s	0～20	
Arc spot time		s	0.1～30	
Pulse frequency		Hz	0.1～500	
Pulse width		%	5～95	
Crater control process			Three mode(ON,OFF,REPEAT)	
Dimensions (W×D×H)		mm	340×558×603	
Mass		kg	44	
Insulation class		-	130℃（reactor 180℃）	
EMC classification		-	A	
IP code		-	IP23	

TIG welding torches



●YT-208T

（Applicable plate thickness: Max. 4.5mm）



●YT-30TSW

（Applicable plate thickness: Max. 6.0mm）



●YT-158TP

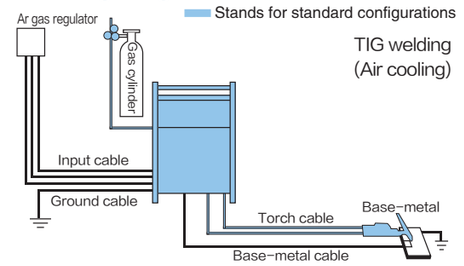
（Applicable plate thickness: Max. 3.0mm）



●YT-308TPW

（Applicable plate thickness: Max. 6.0mm）

Wiring diagram



Power supply capacity & The cross-sectional area of the ground cable

Item \ Type			YC-400TX4HGH	YC-400TX4HJE
Supply voltage		V	AC 380	AC415
phases			Three-phase	Three-phase
Facility capacity		kVA	30 or more	20 or more
Switch box capacity	Fuse	A	40	40
	Earth leakage breaker or no-fuse breaker	A	50	50
Input cable		mm^2	6 or more	6 or more
Output cable		mm^2	50 or more	50 or more

Optional accessories

● Water cooling unit
YX-09KGC2

(Capacity:9L Head of coolantat：20m)



● TIG mate
YJ-1052THGE

(Feeding speed: 0.3-3m/min)



Safety precautions

Panasonic

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The color is subject to be different to the real product.
The specifications are subject to change without notice.

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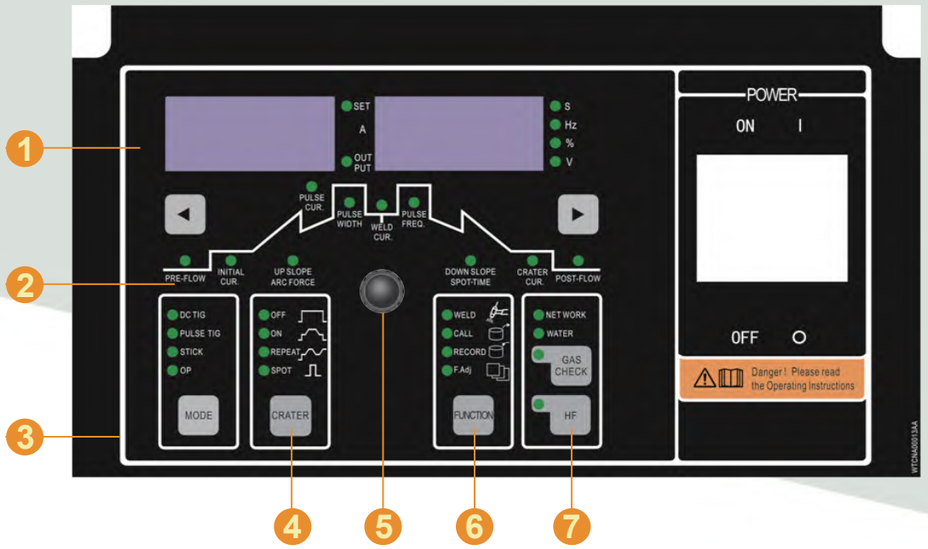
PWST No.C120E

Official Website

Official WeChat

The Latest Upgraded High-Quality Full Digital Pulse TIG Welding Machine

Digital operation panel



Stackable

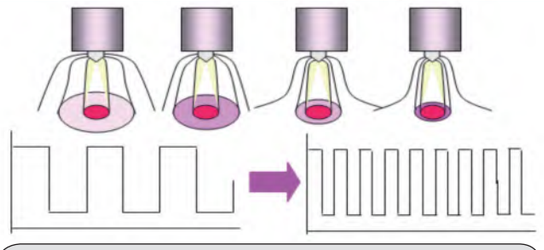


1 Multi-functional digital displays

The values of current, voltage, time, frequency, duty cycle, alarm code and more can be shown on the displays.
The finest adjusting step is 0.1A when the preset welding current is less than 10A.

2 TIG welding mode control

1. After selecting TIG welding mode by pressing the button 3 , the sequence parameters can be fine-tuned by rotating and pressing the Dial 5 .
2. The parameters such as pre-flow& post-flow times, current, pulse frequency and duty cycle, up and down slope times etc. can be adjusted in Crater ON mode.
The additional adjustments on up and down slope times are obtainable even in Crater OFF mode.
3. The pulse frequency ranges from 0.1Hz to 500Hz, ready for your free adjustment.
Thanks to the wide adjustment scope of pulse frequency from 0.1 to 500 Hz, the controllable range of arc concentration characteristics is further expended, which is beneficial to thin plate welding and fast welding.



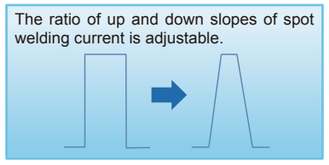
The arc centralization controllable range of is further improved.

3 Three welding processes

1. DC TIG, pulse TIG & stick.
2. When stick welding is selected, both acid & alkaline electrodes are applicable and the arc-start & arc-force current can be adjusted.

4 TIG welding function selection

1. In Crater Repeat mode, you may stop welding by double-pressing the torch switch.



2. Apart from the adjustable welding time in spot welding mode, the up and down slopes are added at the start and end of spot welding process respectively.

High reliability design

- The internal horizontal structure (IP23 enclosure degree) is adopted, in full consideration of the operation reliability in tough environment.
- The PC Board and main control circuit are sealed in the separated chambers. And PC Board is vertically mounted to avoid dust gathering.
- Thanks to the powerful axial cooling fan and independent air-flow passage design, the machine is cooled down adequately.
- Comprehensive protection functions prevent the machine from any possible damages caused by such abnormal conditions as lack of phase, over-voltage and under-voltage at primary inputs and the over-current at the secondary as well as the tungsten short-circuit, water shortage and overheat, etc.

5 The easy-to-use dial

The digital encoder provides you a convenient operation,just rotating to adjust and pressing to confirm.

6 More functional settings

1. 100 groups of welding parameters can be stored & recalled.
2. The detailed menu provides you more functional settings and adjustments.
- Current-limiting function: The upper limit can be set between 50A and 400A.
- Anti-electric shock function: This function can be enabled when you use stick welding mode in a wet or cramped environment. The factory default is OFF.
- Arc-start adjustment function: The arc ignition current and time are adjustable.
- Short-circuit alarm: Once the tungsten electrode is short-circuited with the work piece, the machine enters the alarm state, preventing the tungsten electrode from burning. (For more information, please refer to the operational manual.)

7 Arc-start setting

Both high frequency and touch arc ignition functions are open for selection. In case high frequency generator is not allowed to use, you may choose touch arc start to strike the arc.