

Panasonic

IGBT-controlled DC TIG Welding Machine

400TX3

High reliability under tough environment
Satisfying a variety of welding demands

Electric shock
proof inside



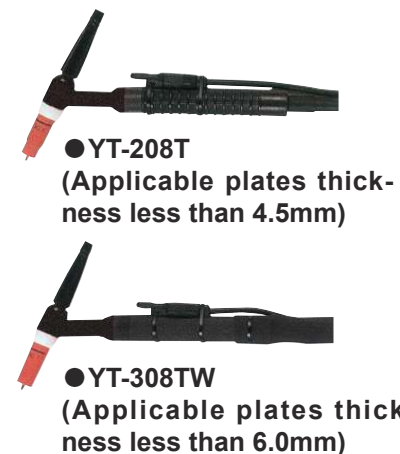
Panasonic pursues *Only one* in welding

Specifications

Model	YC-400TX3		
Control mode	-	IGBT inverter type	
Input power frequency	Hz	50/60	
Rated input capacity	kVA/kW	8.8/8.3	
Rated output current	A	315	
Rated output voltage	V	22.6	
Rated duty cycle	%	60	
Rated output voltage at no load	V	Anti-electric shock[ON]:13,[OFF]:73	
Output current range	TIG	A	4~400
	Manual arc welding	A	20~400
Output voltage range	TIG	V	10.2~26
	Manual arc welding	V	20.8~36
Initial current	A	4~400	
Pulse current	A	4~400	
Crater current	A	4~400	
Up slope time	S	0 or 0.1~5	
Down slope time	S	0 or 0.2~10	
Pre-flow time	S	0.3	
Post-flow time	S	2~20	
Spot welding time	S	0.2~5	
Pulse frequency	Low-frequency	Hz	0.5~30
	Mid-frequency	Hz	10~500
Pulse width	%	5~95	
Control mode for crater current	-	Three control modes for crater, i.e."Yes","No"and"REPEAT"	
Arc starting mode	-	High-frequency arc starting	
Enclosure protection class	-	IP23	
Insulation class	-	H(B class for main transformer)	
Cooling mode	-	Forced air cooled	
Dimension(W×D×H)	mm	327×555×602	
Mass	kg	43	

Please use Panasonic genuine consumables

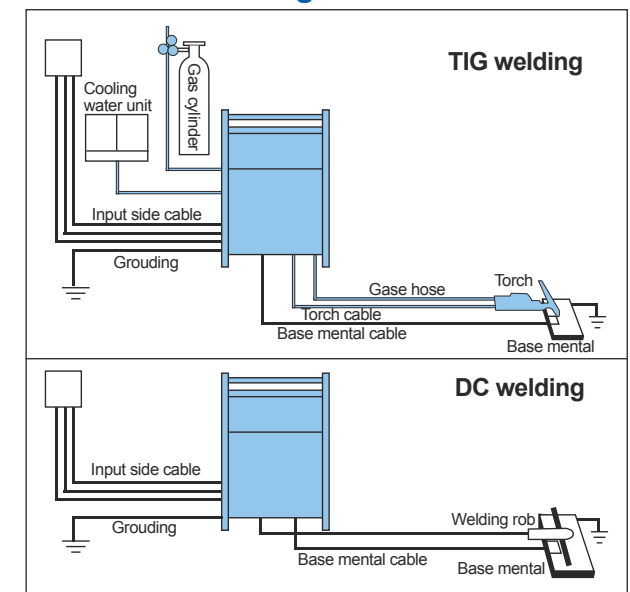
TIG torch



TIG tungsten electrode

Model	Diameter
YN05T2S	0.5
YN10T2S	1.0
YN16T2S	1.6
YN24T2S	2.4
YN32T2S	3.2
YN40T2S	4.0
YN48T2S	4.8

Connection diagram — Standard component



Power supply and connecting cable

		YC-400TX	
Power voltage	V	380±10%	
Phase number	-	3	
Device capability	kVA	30	
Switch box capacity	Fuse	A	40
	Earth leakage breaker or no-fuse breaker	A	50
Input cable	mm ²	6 or more	
Output cable	mm ²	35 or more	
Grounding cable	mm ²	14 or more	

Options

- Cooling water unit
YX-09KGC1HGE
(Coolant capacity: 9L,
Head of coolant: 20m)

- Filler wire feeder
YJ-1052T
(Wire feed speed: 0.3-3m/min)



Safety precautions

- Please instal this product in the room with no combustibel.
- Before attempting to use any welding product, always read the manual to ensure correct use.

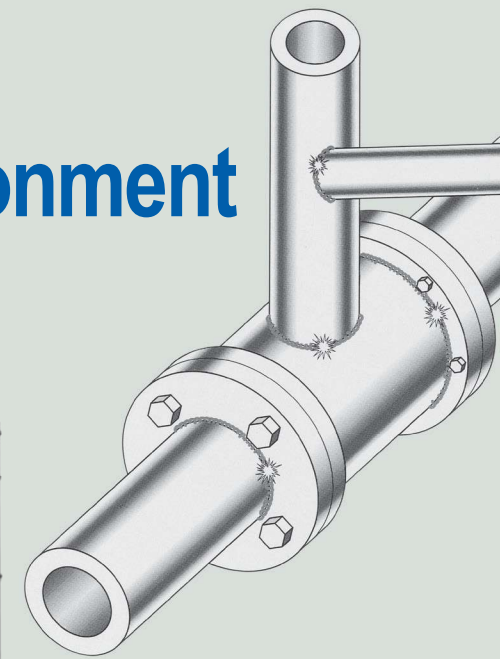
Panasonic®

Panasonic Welding Systems(Tangshan)Co.,Ltd.
Tel: (0315) 3206066-3206069 Fax: (0315) 3206018 3206070
Service hotline: (0315) 3206016 8008035816
Technique consulting: (0315)3206012
Website: <http://pwst.panasonic.cn>
E-mail: sales@tsmi.cn

The color is subject to be different to the real product. The specifications are subject to change without notice.
Advertiser: Panasonic Welding Systems (Tangshan) Co.,Ltd.
Address: No.9 Qingnan Road, New & Hi-tech Development Zone, Tangshan, Hebei, China
Printed by Tangshan October Printing Co.,Ltd.
Address: No.2 Tanggu Road, Tangshan, Hebei, China

Printed in Apr.2015

High-performance adapt to kinds of severe working environment



● User-friendly operation panel

Digital display for current and voltage parameters are pre-settable



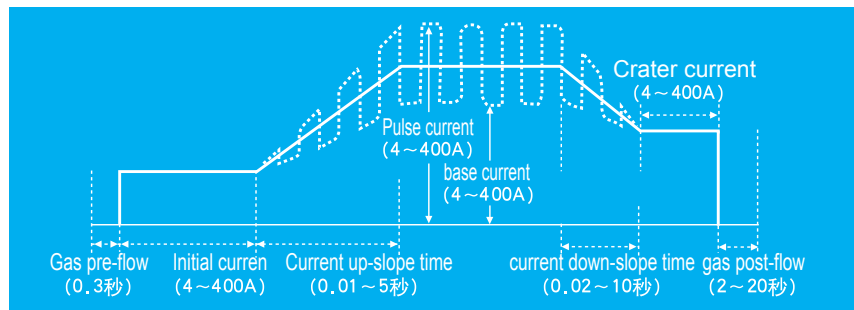
Function knobs inside

Hidden panel



Original case design and multiple layer stack

● Abundant wave-form control, satisfying a variety of welding demands



1. The middle frequency pulse control (10-500Hz)

Good arc stiffness and concentration

For the welding of heat sensitive metals, such as titanium, stainless steel, and ultrathin-plate

2. The low frequency middle frequency pulse control (0.5-30Hz)

For the all-position welding of mid-and thin-plate and pipe made of various metals (except aluminum, magnesium and their alloys) (Pulse current, frequency and width and base current can be adjusted steplessly.)

3. The initial current control

Initial current and crater current control improve the bead quality during arc start and crater stages.

● Stable welding at 4A output current

Thanks to high-powered IGBT components in main circuit, the output wave-form is significantly smoothed. The arc stability at 4A is achievable.

● Arc spot welding function

Applicable to argon spot welding with pre-settable spot current and time

● Excellent manual welding performance

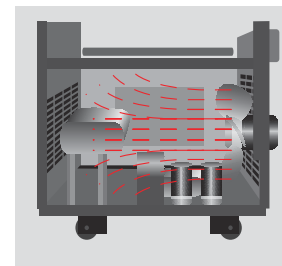
Arc force current can be adjusted steplessly.

Stick adhesion, arc break or excessive spatter during welding period can be controlled through arc force current regulation.

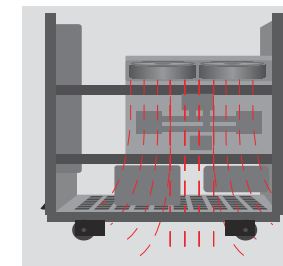
● High reliability under tough environment

■ Dust-proof and raindrop-proof design

Longer life-span Better cooling air route.



Old type



400TX3

■ An unique design of three layers and four rooms structure

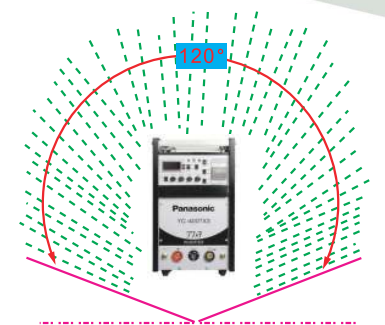
Main PCB, variable resistors and switches are sealed in front room.

Power rectifier diodes and IGBT in middle sealing room.

The cooling air only goes though the inside cooling fins of heat sinks and doesn't directly blow IGBT etc, preventing dust from collecting.

■ Complies with IP23 enclosure class

Machine can endure raindrops come from as wide as 60 degrees.



● Optional remote controller

Remote operation is obtainable.

● Connectable to TIG Mate

By connecting to TIG Mate, automatic TIG welding is realizable.

● Electric shock preventing device

The possible electric shock is preventable at moist, narrow and overhead places.

● Abundant safety functions

Abnormal temperature rise protection
Input under-and over voltage protection
Input phase lack protection