

**Panasonic**  
ideas for life

# 400TX3

The World's Most Preferred and Reliable  
**IGBT-controlled DC TIG welding machine**

DC  
TIG

DC  
Manual



*Reliable performance  
even in rugged  
environments*

Ideal for various applications:

- Petrochemical plants
- Power generation
- Pressure vessel manufacturing
- Stainless steel product manufacturing

## Panasonic Corporation

Panasonic Corporation is one of the largest electronic product manufacturers in the world comprising of over 600 Companies and a turnover of over USD 100 billion. It manufactures and markets a wide range of products under the Panasonic brand to enhance and enrich lifestyles around the world.

## Panasonic Welding Systems

As a leader in the welding industry, Panasonic Welding Systems Co. Ltd., has been developing products to help realise rationalisation, energy saving and quality optimisation in welding operations. In the joining and processing field Panasonic Welding Systems Co. Ltd., offers total solutions in equipment, techniques, and software to its customers around the globe by leveraging its digital technology, based on the welding and laser technology accumulated over the years.

## Environment-friendly

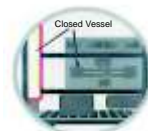
**RoHS**

Restriction of Hazardous Substances

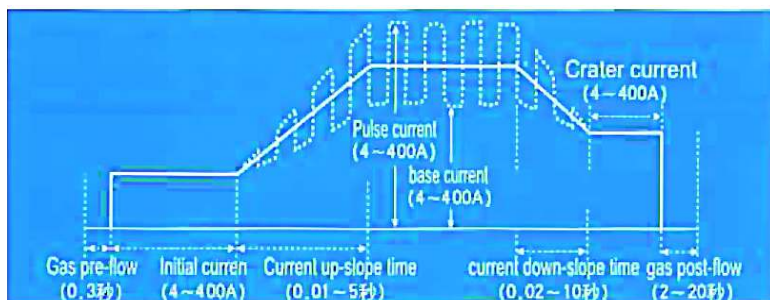
- All Panasonic welding equipment are RoHS Compliant.
- We fulfill responsibilities of protecting global environment through utilizing green materials and manufacturing green products.
- Panasonic Welding Systems' Promise: Through utilizing earth-friendly equipment and purchasing environment-friendly materials, we guarantee that Panasonic welding products do not contain hazardous substances such as lead, mercury, cadmium, hexavalent chromium, PBBs and PBDEs, flame retardants etc. realizing "green industrial products".

## Key features of 400TX3

- Higher weld stability  
High power IGBT components in the main circuit ensure smooth output wave-form resulting in greater arc stability even at 4A output current.
- Spot welding functionality  
During argon spot welding, TX3 offers pre-setting of spot current and time.
- Excellent manual welding performance  
Stepless regulation of arc force current reduces issues of stick adhesion, arc break and excessive spatter during welding.
- Reliability even in rugged environments
  - Dustproof and superior waterproof design for greater endurance.
  - More efficient cooling.
  - Complies with IP23 enclosure class.
- Easy-to-assemble connectors  
Remote operation is possible.
- Compatible with TIG Mate  
In conjunction with TIG Mate, automatic TIG welding is possible.
- Unique design of three layer and four room dust-free structure.



- Superior wave-form control to meet diverse welding needs



- Middle frequency pulse control (10-500Hz).
- Good arc stiffness and concentration.
- Welding of heat-sensitive metals such as titanium and stainless-steel, and ultra-thin plates.
- Low and mid-frequency pulse control (0.5-30Hz).
- For all-position welding of mid/thin plates and pipes made of various metals (except aluminum, magnesium and their alloys).
- Stepless adjustment of pulse current, frequency, width and base current.
- Initial current control and crater current control improves bead quality during arc start and crater stages.
- Greater safety features
  - The possibility of electric shocks due to moisture or working in cramped spaces or contact with metal surfaces etc. is greatly reduced.

### Important safety features

- Electric shock prevention switch.
- Over-voltage and under-voltage protection.
- Overheating protection.
- Single-phasing protection.

### Technical Specifications

Model		YC-400TX	
Power control method	-	IGBT inverter type	
Input power frequency	Hz	50	
Rated input capacity	kVA / kW	13.9/13.2	
Rated output current	A	400	
Rated output voltage	V	26	
Rated duty cycle	%	60	
Rated output voltage at no load	V	Anti-electric shock[ON]:13,[OFF]:73	
Output current range	TIG	A	40~400
	Manual arc welding	A	20~400
Output voltage range	TIG	V	10.2~26
	Manual arc welding	V	20.8~36
Crater current	A	4~400	
Pulse current	A	4~400	
Pulse current	A	4~400	
Up slope time	S	0 or 0.1~5	
Pre-flow time	S	0 or 0.2~10	
Post-flow time	S	0.3	
Spot welding time	S	2~20	
Spot welding time	S	0.2~5	
Pulse frequency	Low-frequency	Hz	0.5~30
	Mid-frequency		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	-	Air cooled	
Dimension (WxDxH)	mm	327 X 555 X 602	
Mass	kg	43	

Note: 1. For YC-400TX3, optional parts are needed if machine is connected with water cooled torch.

Accessory name	Mode	Quantity
Filter	CJX30101-02	1
Additional device	CJM30101	1

2. YC-400TX3HGW (Chinese) is Water Cooling specification.

3. For YC-400TX3, optional parts (Model TSMYU059) are needed if the machine is connected with automatic filler wire feeder and automatic special purpose machine.