

Panasonic
ideas for life

400TX3

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

DC
TIG

DC
Manual



*Superior cost-effective
performance for
DC Pulse TIG welding*

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".



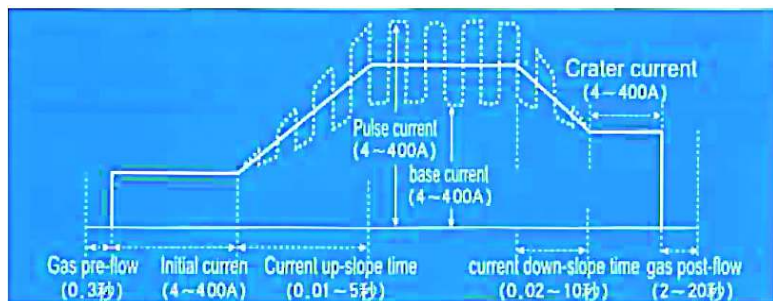
Key features of 400TX3

- 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.



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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
Input Voltage	-	415 + , - 10%
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 4~400
	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
	High-frequency	
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.

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.

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

Ordering Information	Model
Power source	YC-400TX3HJE
TIG torch (Air cooled)	YC-30TS2
TIG torch (Water cooled)	YC-30TSW2

Panasonic reserves the right to alter the specifications without notice.

Panasonic

Range of Welding Equipment: MMAW | MIG/MAG | TIG | Plasma Cutting | Welding Accessories | Welding Robots
Panasonic is setting up its own state-of-the-art welding equipment manufacturing facility near Gurgaon, Haryana, India.

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