

400TX3

IGBT-controlled DC TIG welding machine

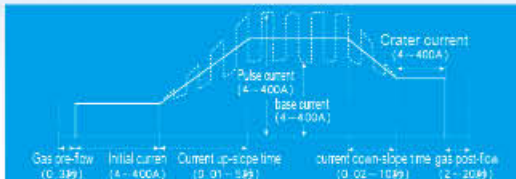
DC TIG DC Manual



YC-400TX3

Suitable for broad industries including petrochemical engineering, pressure container, electricity construction, stainless steel product

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



1. 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. 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. 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.

User-friendly operation panel



Digital display for current and voltage parameters are pre-settable

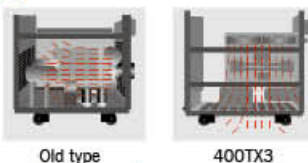
Hidden panel

Arc spot welding function

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

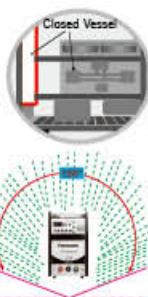
Excellent manual welding performance

Arc force current can be adjusted steplessly.
Stick adhesion or 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
- 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 through 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.



Specifications

Model		YC-400TX	YC-315TX
Power control method	-	IGBT inverter type	
Input power frequency	Hz	50	50/60
Rated input capacity	kVA/kW	13.9/13.2	10.2/9.5
Rated output current	A	400	315
Rated output voltage	V	26	22.6
Rated duty cycle	%	60	
Rated output voltage at no load	V	Anti-electric shock[ON]:13,[OFF]:7.3 Anti-electric shock[ON]:14,[OFF]:7.8	
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	4~315
Pulse current	A	4~400	4~315
Pulse current	A	4~400	4~315
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	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	IP21S
Insulation class	-	H (B class for main transformer)	
Cooling mode	-	Air cooled	
Dimension(WxDxH)	mm	327×555×602	380×600×580
Mass	kg	43	

Note:1. For YC-400TX3, the optional parts are needed if machine is connected with water cooled torch:
2. YC-400TX3HG(W) (Chinese) is water cooling specification

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

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

Equipped with quick assembling connector

that provides easy replacement of the electrode and clamp



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

Original case design and multiple layer stack

