

400TX3

The World's Most Preferred and Reliable

IGBT- Controlled DC PULSE TIG Welding Machine



Superior Cost-Effective Performance for DC Pulse TIG Welding

DC
TIG

DC
Manual

Ideal for Various Applications

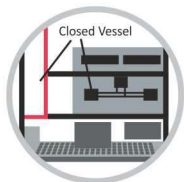
- Petrochemical plants
- Power Generation
- Pressure Vessel Manufacturing
- Stainless Steel Product Manufacturing

Key Features of 400TX3

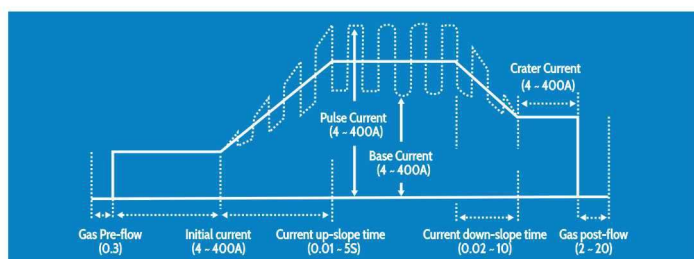
- **Higher weld stability**
High power IGBT components in the main circuit ensure smooth output wave-form resulting in greater arc stability even at 4A output current.
- **Spot welding functionality**
During argon spot welding, TX3 offers pre-setting of spot current and time.
- **Excellent manual welding performance**
Stepless regulation of arc force current reduces issues of stick adhesion, arc break and excessive spatter during welding.
- **Reliability even in rugged environments**
Dust-proof and superior water-proof 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**



- **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	Unit	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	TIG	A 4~400
Current Range	Manual Arc Welding	A 20~400
Output	TIG	V 10.2~26
Voltage Range	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	Low Frequency	Hz 0.5~30
Frequency	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
Cooling Mode	-	Air Cooled
Dimension (W X D X H)	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.

Ordering Information	Model
Power source	YC-400TX3DIE
TIG torch (Air cooled)	YC-30TS2
TIG torch (Water cooled)	YC-30TSW2