

AUTOMATIC TUBE-TO-TUBE WELDING SYSTEM

WZM-200

WZM-200 closed tube-to-tube automatic welding machine is a special all-position automatic TIG equipment designed for all kinds of tube fitting joints. It adopts the welding method without filler wire, which is widely applied in electronics, chemical engineering, food/beverage, air conditioner, pharmaceuticals/medical equipment, instruments and apparatus, aerospace, engineering installation, nuclear and other industries.

- Small and light welding head: Easy operation with no need of manual interference
- 7-inch touch screen: friendly and visualized programming interface with simple and easy operating method
- **Long-life motor:** high-quality DC core-less servo motor enjoys stable performance and long service life
- Unlimited rotation: not entangled by water hoses, electric wires, and gas hoses
- Save and recall 60 sets of parameters: Up to 60 sets of parameters can be saved and recalled, and one process can be divided into up to 16 sectors
- Abundant expert database: The welding programs can be generated automatically according to different pipe diameters and wall thickness
- Built-in printer: Automatically print welding parameters for convenient filing







POWER SOURCE AND ACCESSIORIES

POWER SOURCE

Features and Benefits

- Water-cooled integrated type machine
- 7-inch touch screen
- Standardly equipped with printer
- CC/pulsed current control
- Rotation control
- Argon gas control





Item	Parameter		
Model	WZM-200		
Purpose	Realizing all-position TIG tube-to-tube welding		
Welding current	10~200A		
Outy cycle (40 ℃)	200A 35% / 153A 60% / 118A 100%		
OCV	60V		
nput voltage/frequency	AC220V±15%, 50Hz		
Cooling method of welding torch	Liquid cooling		
Display	7-inch touch screen		
Control function	DC/Pulsed current Rotation Wire feeding control Arc length control Shielding gas control Print control		
Programs storage capacity	60		
The number of divided sectors	1~16		
Protection/Insulation class	IP21S/F		
Weight (without coolant)	16.4Kg		
Dimension	440×200×410mm		
Operating environment	Indoors temperature: -10 ℃~+40 ℃ Humidity: ≤ 95%		





TOUCH SCREEN CONTROL INTERFACE



Features and Benefits

- Inverter technology, high reliability, energy saving.
- 7-inch touch screen control interface, intuitive image, easy to operate.
- 60 sets of welding specs can be stored and recalled, saving operating time.

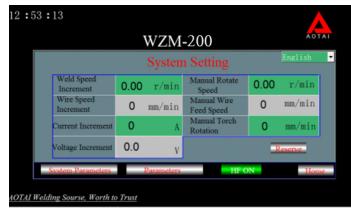
Main interface

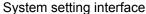


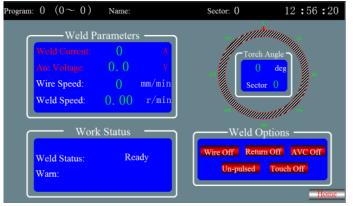
Head: WTC80 7.00 368 Gas Pre Flow Time Arc Stop Position 7.00 0.01 Gas Post Flow Time Delayed Wire Feed Time 1.50 Premelting Time Wire Feed Stop Position 38 0.30 Premelting Current Wire Pull Time 0.00 0.00 Up-slope Time Delayed Track Time 6.00 2.0 The Set Arc Start Height Arc Stop Time 20 Torch Retracting Distance After Weldin 2.0 Arc Stop Curren 0 Spot Weld Time 0.00 Spot Weld Curren On AVC Off Touch Off Spot Weld (Off)

Login interface

Welding parameters setting interface

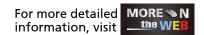






Real-time welding monitoring interface





TUBE-TUBE WELDING HEAD-WTC SERIES



Summary

- Mainly used for all-position, self- fusion, tube-tube welding
- Mainly suitable for thin-wall tube-tube welding of stainless steel, titanium alloy, etc.

Application area

Electronic, chemical, food/drinking water, air conditioner, medicine/medical equipment, instrument &meter, aviation/aerospace, engineering installation and nuclear power, etc.

Features & Benefits

- Small size, light weight, simple operation, zero requirement for welder skill
- Flexible automatic centering fixture, accurate positioning, safe and reliable.
- Closed-type welding ensures welding quality.
- Infinite rotation device avoids water, power, and gas winding.
- Water cooled, high duty cycle
- Common function keys on welding head make it convenient for fast welding.





PRODUCT SPECIFICATIONS						
Item	Parameter					
Model	WTC18	WTC40	WTC80	WTC118	WTC158	
Weldable material	Carbon steel, stainless steel, titanium and titanium alloy etc.					
Tube diameter	Ф6~Ф12.7mm	Ф6~Ф38.1mm	Ф19.05~Ф76.2mm	Ф38.1~Ф101.6mm	Ф50.8~Ф152.4mm	
Tube thickness (mm)	≤2mm					
Torch rotation speed	0.3~6.0rpm	0.2657~5.3145rpm	0.194~3.877rpm	0.092~1.924rpm	0.073~1.472rpm	
Maximum		Duty cycle 40%@85A	Duty cycle 40%@100A	Duty cycle 40%@120A	Duty cycle 40%@120A	
welding current	60A	Duty cycle 60%@65A	Duty cycle 60%@75A	Duty cycle 60%@100A	Duty cycle 60%@90A	
Sarrone		Duty cycle 100%@45A	Duty cycle 100%@55A	Duty cycle 100%@80A	Duty cycle 100%@75A	
Protection gas	Argon	Argon	Argon	Argon	Argon	
Cooling	Water cooled	Water cooled	Water cooled	Water cooled	Water cooled	
Cooling water flow	≥450mL/min	≥450mL/min	≥450mL/min	≥450mL/min	≥450mL/min	
Weight	2.0kg	3.5kg	5.0kg	6.5kg	10kg	
Dimension	292*96*34mm	377*70*42mm	436*156*44.5mm	540*195*54mm	577*255*56mm	
Power source	WZM200					

REMOTE CONTROLLER



- Fine adjust welding parameter, perfect control whole welding process.
- Realize real time welding parameter modification.
- LCD on-hand controller can real-timely show welding parameter, faulty information like over-heat or over current, and welding stage like HF arc ignition.
- Multi-function buttons save space, make interface simple, beautiful and powerful, improve the cost-efficacy.





INDUSTRY APPLICATION

WTC158







WTC80











