



Orbital Welding System

Brings consistent excellent quality and increased productivity

- Very simple operation program
- Excellent welding performance
- Mature welding process
- Extremely low Labor intensity



● Site photos >>>



Orbital Welding System

Developed for all position tube - tube sheet automatic welding, Compared with manual welding, more efficient, more reliable, more convenient, and more beautiful.

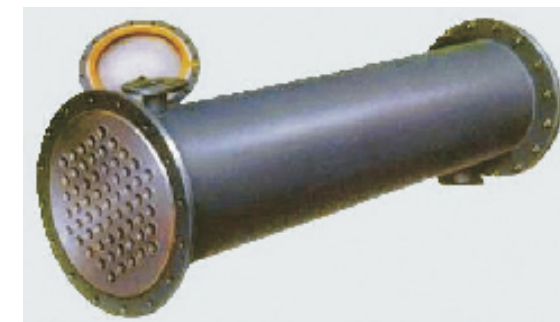
Areas of used: boiler, chemical industry, heat exchanger, air-conditioner, power plant.



Boiler



Heat Exchanger



Condensator

Product Configuration

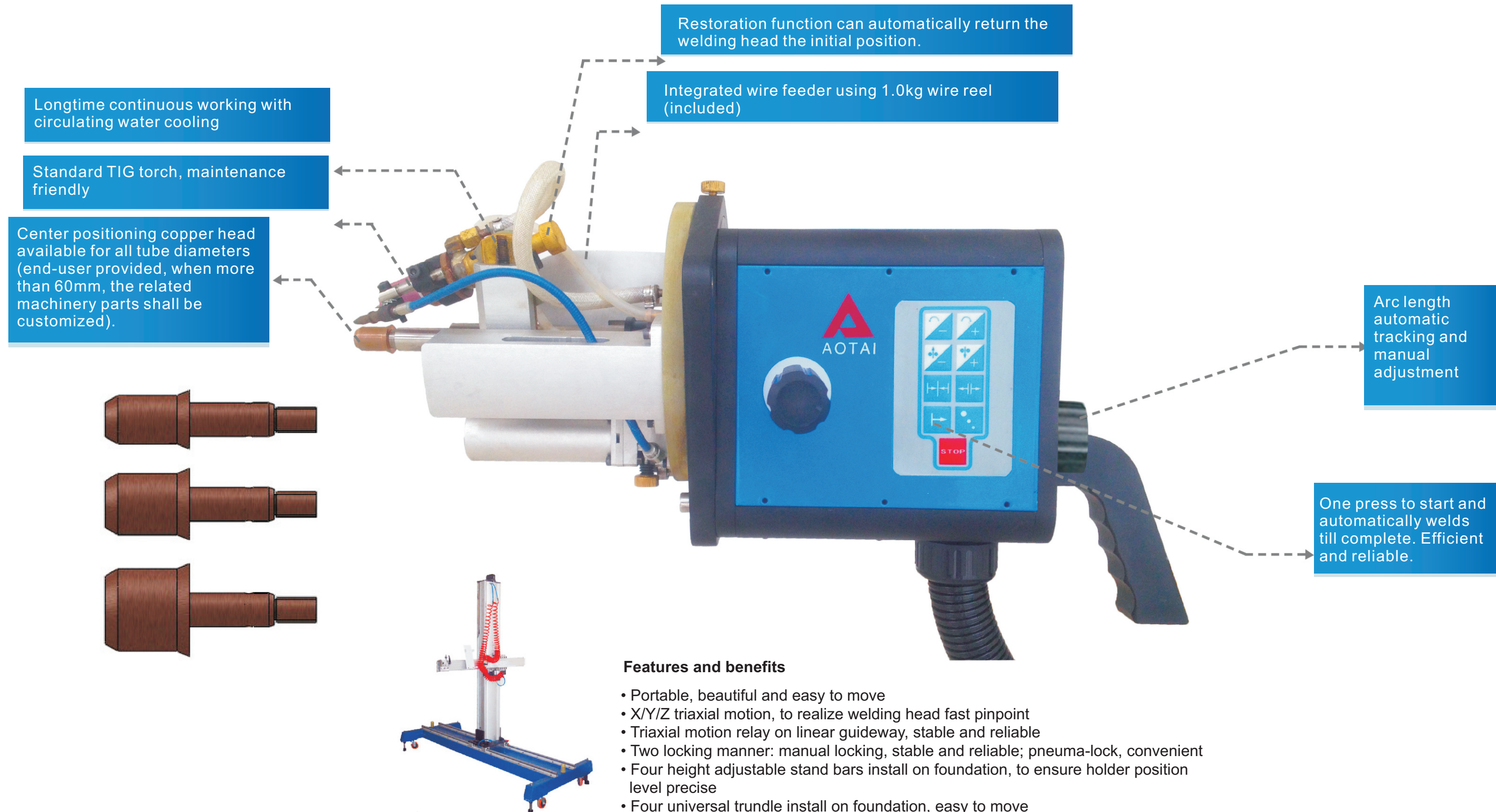
Orbital Welding System	WTS60- ATIG400P-Z	Standard Equipment	Power Source ATIG400P-Z + Welding Head WTS60 + Manipulator CZJ1.9*1.2
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WTS60 WELDING HEAD

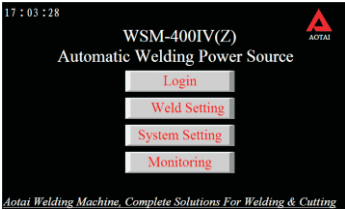
Benefits

- Easy operation, reduce welder's skill requirements
- Excellent welding performance and appearance
- Infinite rotation device , no intertwine trouble of wire, water, power and gas feeding



Technical Specifications

Parts	Item	Parameter
ATIG 400P-Z	Rated Input Voltage / Frequency	380V±10% 50/60Hz
	Welding Current	5~400A
	Duty Cycle	400A 60%/310A 100%
	Rated Power	13.5KVA
	Storage Channel Number	60
	Programming Sectors	16
	Functions	DC or Pulse output/ Rotating Control/Wire Feeding Control/Protection Gas Control/Arc Length Control/ oscillating Control/ etc.
	Standards	GB 155579.1-2004
	Dimension	1100X600X1250mm
WTS60 Welding Head	Connection between tube and tube sheet	Protruding tubes / Flush tubes
	Material Applicable	Carbon steel, stainless steel, titanium alloy
	Tube Outside Diameter	Φ 16~Φ60 mm
	Max. Welding Current	300A
	Wire diameter	0.8mm/1.0 mm
	Torch Rotating Speed	0.35~6.0rpm
	Cooled by	Water
	Weight	12.5Kg
	Duty Cycle	300A 70%
3D Manipulator	Dimension	425×265×210mm
	Lateral distance of travel (X axis)	750 mm
	Horizontal distance of travel (Y axis)	1900 mm
	Vertical distance of travel (Z axis)	1200 mm
	Min. Working Height	600 mm
	Dimension	1100×2300×2230mm



Main interface

Features and benefits

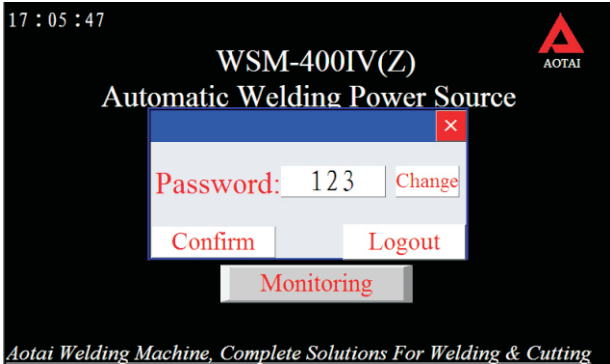
- Visual interface, easy operation, convenient to use
- Friendly human-computer interaction interface, 10 inches touch screen display
- Has advanced and normal parameter setting interface, for multi-user operation
- Login password setting, avoid welding standard modify wrongly
- Welding monitoring interface, when welding display real time parameter, welding stage, alarm information, etc.



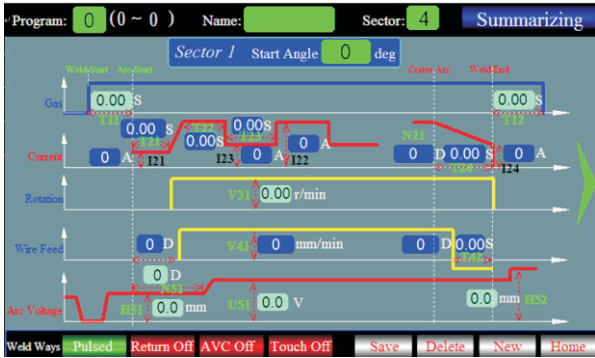
Remote controller

Features and benefits

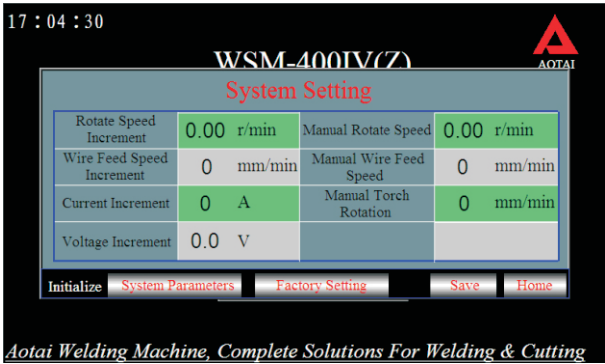
- Fine adjust welding parameter, perfect control whole welding process
- Realize real time welding parameter modification
- LCD on hand controller can real time show welding parameter, faulty information like over heat or over current, and welding stage like HF arc ignition
- Multi-function buttons save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



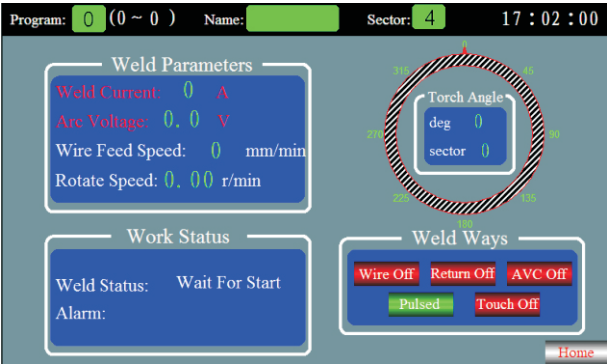
Login interface



Programming interface



System setting



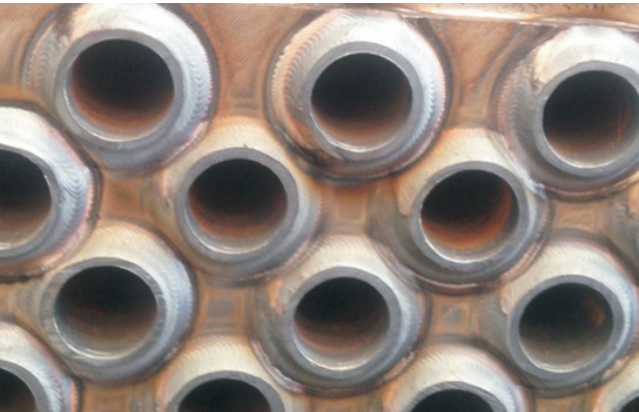
Welding interface

Spare Parts List

1	Ceramic Nozzle	6# 53N60
2	Ceramic Nozzle	7# 53N61
3	Flow Deflector	45V44
4	Tungsten Electrode Holder	13N23
5	Tungsten Electrode Holder	45V45
6	Tungsten Electrode Holder	13N24
7	Water and Electricity Pipe Components	WTS60.4.0
8	Wire Feed Rolls	Φ0.8/Φ1.0
9	Wire Feed Nozzle	Φ1.0
10	Wire Feeding Tube Components	S20
11	Polytetrafluoroethylene Ttube	Φ4×6
12	Torch Head Components	WTS60.1.1.0
13	Minitype Guide Rail	MR9MNSS1V0N-53L
14	Adjustment Screw	WTS60.1-6
15	Arc Length Adjustment Rod Components	WTS60.5.1.0
16	Wire Feed Nozzle Clamping Piece	WTS60.1-17
17	Installation Disk Joint	WTS60.4.1-10
18	Shoulder Seal	598882
19	Insulating Mat	WTS60.1-13
20	Positioning Copper Head	Customized



Dezhou, Shandong, China
Stainless Steel, 25mm
1 pass with wire feeding
36 seconds per pipe



Heat exchanger in chemical industry
Carbon Steel, 25mm
2 pass with wire feeding
1 Min per pipe



Wuhan, Hubei, China
Stainless Steel, 15.5mm
1 pass
No wire feeding
30 seconds per pipe