

TIG Orbital Welding System

WTS40 Self-melting tube sheet head



Features & Benefits

- Small size, light weight, simple operation, zero requirement for welder skill
- Flexible and accurate positioning, safe and reliable.
- Closed-type welding ensures welding seam quality
- Infinite rotation structure avoids water, power, and gas winding.
- Water cooled, high duty cycle

Summary

- Mainly used for flush tubes, self-melting, tube-tube sheet welding
- Main welding material: stainless steel, titanium alloy, carbon steel, etc.
- Power source WZM-400

Application area

 Power stations, air conditioners, heat exchangers, boilers, nuclear power, chemical and other industries

Item		Technical parameter
Mode		WTS40
Weldable material	Carbon steel, stainless steel, titanium alloy etc.	
Main tube sheet connection form		Flush tubes
Tube diameter (mm)		Ф16~Ф38
Tungsten electrode diameter		2.4
Torch rotation speed (rpm)		0.5~10
Tungsten electrode angle (mm /inch)	7°	Range: Φ16~Φ28
	0°	Range: Ф25~Ф38
Protection gas		Argon
Cooling		Water cooled
Cooling water flow (ml/min)		≥600
Weight (kg/lb)		3 /6.6
Dimension (mm /inch)		317*86*148 /12*3*6
Rated welding current		100A, rated duty cycle : 70%
Power source		WZM-400

Application / Orbital Welding System

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User management login interface

• User needs to enter password, modify welding standard, safe to use



Welding monitoring interface

- · Real time monitor whole welding process
- Real time check relative welding parameter, running status, current position, welding manner, etc



System setting interface

- Rotate speed increase
- Manual rotate speed
- Wirefeeding speed
- Inch wirefeeding speed
- Current increase
- Voltage increase



Adjustable welding parameters interface

- Pre-gas time
- Post gas time
- Peak current
- Base current
- Peak current time
- Wirefeeding speedArc length

Equipment name	Item	Parameter
WZM-400 Power source	Rated input voltage/frequency	380V±10% 50Hz
	Welding current	5~400A
	Duty cycle (20°C)	400A 60%/315A 100%
	Power	13.5KVA
	Savable programs	60
	Sections	16
	Main function	CC or pulse current output/Rotation control/ Wire feeding control/Protection gas control/ Auto control of arc length/ Horizontal swing control, etc.
	Dimension (mm /inch)	1100*600*1250 /43*23*49