

# 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

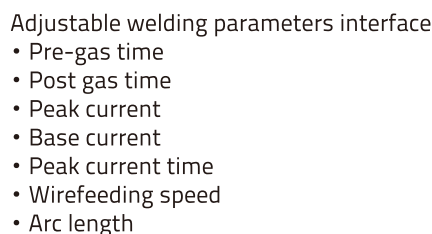
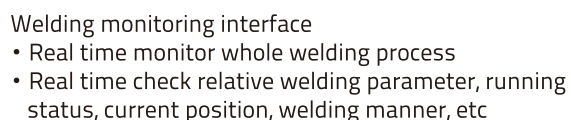
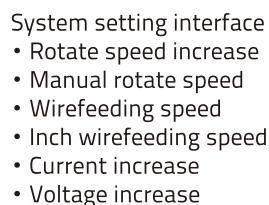
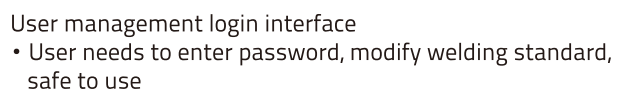
- Mainly used for flush tubes, self-melting, tube-tube sheet welding
- Main welding material: stainless steel, titanium alloy, carbon steel, etc.
- Power source WZM-400

#### 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 )		Φ16~Φ38	
Tungsten electrode diameter		2.4	
Torch rotation speed (rpm)		0.5~10	
Tungsten electrode angle (mm /inch)	7°	Range: Φ16~Φ28	
	0°	Range: Φ25~Φ38	
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	

## TIG Orbital Welding System



Equipment name	Item	Parameter
WZM-400 Power source	Rated input voltage/frequency	380V±10% 50Hz
	Welding current	5~400A
	Duty cycle (20℃)	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