



TTS 40

tube-to-tube-sheet weld head

For more
information
please visit
our website:



www.orbitalservice-group.com

TTS 40

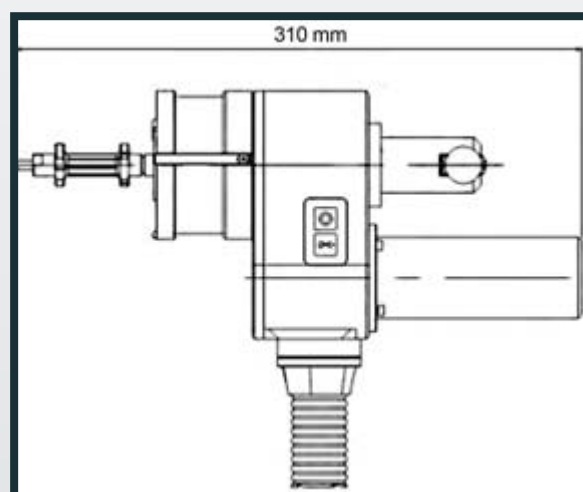
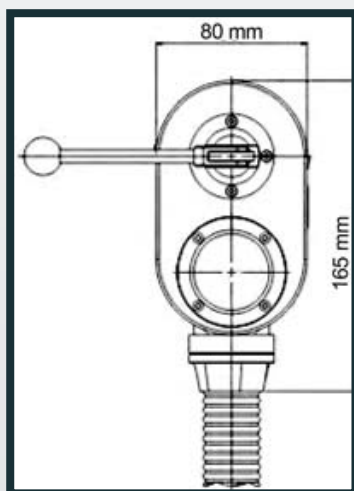
tube-to-tube-sheet weld head

FEATURES //

- Tube to tube sheet welding without filler wire
- Commonly used for stainless steel, titanium and nickel alloy tube to tube sheet welding
- Small, light and simple operation
- Uses localized guide for self-centering with optional spring balancer
- Expandable centering mandrel designed for precise positioning
- Enhanced water cooling system and high duty cycle for durability

STRUCTURAL DIMENSIONS AND DATA:

Diameter Range mm (inches)	16-38mm (.63" -1.5")
Rotation Speed (rpm)	0.6 - 12rpm
Weight kg (lbs)	3.5kg (8lbs)
Cooling	Water
Protective Gas	Ar / Mixed Gases
Standard Cable Length	12m (40')
Joint Type	Flush
Tungsten Diameter	2.4mm (3/32")
Welding Degree	0°- 7°
Duty Cycle	100 A at 70%
Dimensions (mm)	310 x 80 x 165mm (12" x 3.15" x 6.5")



For more
information
please visit
our website:



ORBITALSERVICE GmbH • Kreuzdelle 13 • D-63872 Heimbuchenthal

✉ info@orbitalservice.de
☎ +49 (0) 6092 82294 0

🌐 www.orbitalservice-group.com
📞 +49 (0) 6092 82294 09



TTS 90

tube-to-tube-sheet weld head

For more
information
please visit
our website:



www.orbitalservice-group.com

TTS 90

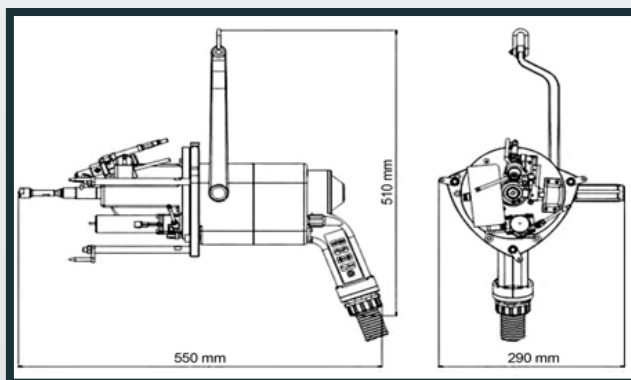
tube-to-tube-sheet weld head

FEATURES //

- With / without wire feeding TIG DC / pulse welding
- Continuous rotation weld head with no cable twist
- Suitable for Tungsten electrodes 1/16 up to 1/8
- Expandable pneumatic mandrel for easy positioning
- Easily connects to the balancer
- Suitable for tube to tube sheet welding (boiler industry)
- Compatible with manipulator - useful within the heat exchange industry
- Material types - carbon and stainless steel, and other alloys
- For flush tube, recessed (1 mm max.) and projected (not over 5 mm) tube ends

STRUCTURAL DIMENSIONS AND DATA:

Diameter Range inside mm (inches)	10 - 110 mm (0.39 - 4.33")
Rotation Speed (rpm)	0.37 - 7.39 rpm
Arc Voltage Adjustment mm (inches)	20 mm (0.79")
Welding Torch Angle	0° - 30°
Standard Cable Length	5m (196.85")
Welding Current/Duty Cycle	300 A at 70%
Protective Gas	Ar / Mixed Gases
Wire Feeding Speed mm/min (inches/min)	2200mm/min (86.6"/min)
Wire Diameter mm (inches)	0.8, 0.9, 1.0 (0.031", 0.035", 0.039")
Cooling	Water
Joint Type	Flush, projected or recessed
Weight kg (lbs)	13kg (28lbs)
Dimensions mm (inches)	550x290x510 (21.65" x 11.42" x 20.08")



For more
information
please visit
our website:



ORBITALSERVICE GmbH • Kreuzdelle 13 • D-63872 Heimbuchenthal

✉ info@orbitalservice.de

☎ +49 (0) 6092 82294 0

🌐 www.orbitalservice-group.com

📞 +49 (0) 6092 82294 09