

TX 38P

NEW

Tube-to-tube-sheet orbital weld head

**Orbital TIG weld head for
pipe-to-pipe-sheet connections**

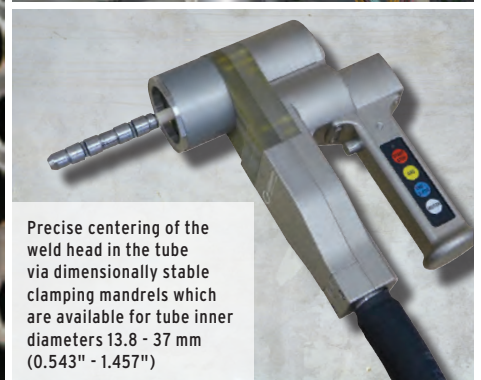
The new orbital TIG weld head from Orbitalum for manufacturing pipe-to-pipe-sheet connections guarantees extremely short production times of industrial heat exchangers at constantly high reproducible quality. Also excellently suitable for repair, maintenance and servicing work.



Applicable for flush tubes, slightly recessed tubes and protruding tubes



Ideal for repairing and maintaining of large-scaled heat exchanger plants



Precise centering of the weld head in the tube via dimensionally stable clamping mandrels which are available for tube inner diameters 13.8 - 37 mm (0.543" - 1.457")

Welding heat exchanger tubes particular effectively and easily: With our new TX 38P for automated TIG orbital welding you can now accurately and precisely weld tube sheets with heat exchanger tubes, such as thousands of welded joints on cooling tubes.

In connection with an ORBITALUM orbital welding power supply, the user is being offered an extremely innovative and economical welding system: All ORBITALUM orbital welding power sources automatically detect the head and its properties so that the operator only has to call up his or her specified joining program and start the joining process before beginning to weld.

To increase productivity, the operator can work with the optionally available switching unit ORBITWIN with up to two weld heads on one machine in an alternating fashion, which reduces welding times and downtimes considerably.

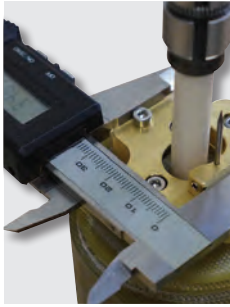
THE ADVANTAGES AT A GLANCE:

- Lightweight, hand-held TIG orbital weld head designed for welding of tubes to tube-sheets
- Precise working in any position to achieve high-quality results on horizontal or vertical tube sheets
- Applicable for flush tubes, slightly recessed tubes and protruding tubes
- Compatible with AMI clamping mandrels, model 96
- Service friendly design of the clamping and drive system within the housing
- Self-supporting weld head at the tube sheet via stable clamping mandrels (eyelet for spring balancer available)
- Limit switch for the electrode position; thus, the start position is freely selectable
- Integrated rapid adjustment of the electrode position to the tube diameter
- Constant or pulsating rotor movement possible (CONT-STEP-Mode)
- Sturdy, speed-regulated 24-volt driving motor with a reduction gear

- Liquid-cooled slide contact for transmission of welding current prevents rotary transmission and leakages
- Including highly flexible hose package (length: 7.5 m/24.6 ft) with strain relief to the power source - optionally extendable to up to 20.0 m (64 ft)

These are the highlights of the new TX 38P:

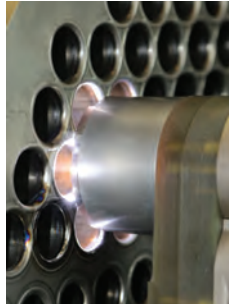
- ✓ Pneumatic clamping and centering
- ✓ Liquid-cooled welding head housing
- ✓ One-hand operation
- ✓ Quick change system for arbors
- ✓ Integrated control panel
- ✓ Chambered shielding gas cover



Simple and precise setting of the electrode position



One-hand operation through integrated remote control and pneumatic control via handle



High-quality results at horizontal or vertical pipe sheets



Rapid changing of clamping elements



Optionally available: Ground cable, spring sleeves and diverse clamping segment sizes



The perfect complement: Orbital welding power supplies of the ORBIMAT CA series

APPLICATION RANGE		TX 38P	
Code		830 000 005	
From tube ID to tube OD	[mm]	10 - 38	
	[inch]	0.394" - 1.500"	
TECHNICAL DATA			
Welding current, max.,	[Amp DC]	150	
Rotation speed, max.	[U/min]	10	
Drive motor with tachometer	[VDC]	24	
Electrode Ø	[mm]	1.6 (available option: 2.4)	
	[inch]	0.063 (available option: 0.094)	
Gas flow	[l/min]	5 - 20	
Gas type		Argon/Argon-Helium/Argon-Hydrogen	
Water pressure, max.	[bar]	2,5	
Air pressure	[bar]	5 - 7	
Hose package length	[m]	7,5	
	[ft]	25	
Machine weight, approx. without hose package	[kg]	7,5	
	[lbs]	16.5	
Type of connection		Fully compatible with all Orbitalum power supplies	
DIMENSIONS			
Dimension "A"	[mm]	65,0	[inch] 2.559
Dimension "B"	[mm]	241,0	[inch] 9.488
Dimension "C"	[mm]	207,0	[inch] 8.150
Dimension "D"	[mm]	36,0	[inch] 1.417
Dimension "E"	[mm]	68,0	[inch] 2.677
Dimension "F"	[mm]	185,0	[inch] 7.283

SCOPE OF DELIVERA

Including:

- 1 Tube-to-tube-sheet orbital weld head TX 38P
- 1 Hose package, length 7.5 m (25 ft)
- 1 Integrated remote control
- 1 Durable storage and shipping case
- 1 Tool set
- 1 Operating instructions and spare parts list

The following accessories are essentially required for operating the TX38P:

To be ordered separately:

- Arbors
- Spring sleeves
- Clamping segments

FURTHER ACCESSORIES

Available option:

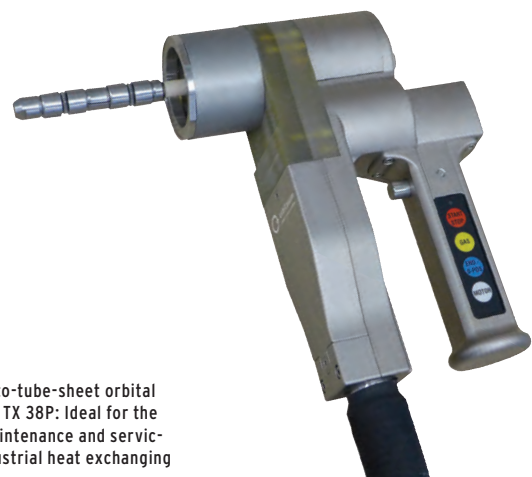
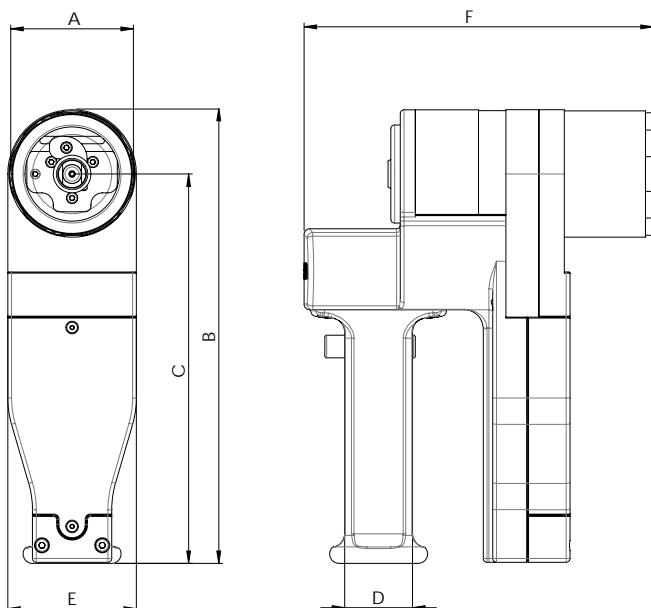
- Spring balancers
- ESG Tungsten Grinders
- Earth cable
- Hose package extensions 5 m / 10 m / 15 m
- Pressure regulator
- WS2 tungsten electrodes

EQUIPMENT

Integrated remote control, with control keys:

- START/STOP welding process
- ON/OFF gas
- Motor (rotor movement)
- Approaching the end position (home position)
- Activating the clamping mandrel pneumatic

The technical data are not binding. They are not warranted characteristics and are subject to change. Please consult our general conditions of supply.



The tube-to-tube-sheet orbital weld head TX 38P: Ideal for the repair, maintenance and servicing of industrial heat exchanging systems