

NEW

TX 38P

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 exchanges at constantly high reproducible quality. Also excellently suitable for repair, maintenance and servicing work.



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 highquality 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 stabile clamping mandrels (eyelet for spring balancer available)
- Limit switch for the electrode position; thus, the start position is freely selectable
- Integrated rapid adustment 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

🕞 orbitalum

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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

SCOPE OF DELIVERY



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



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

Code830 000 005Tube ID, min max.[mm]10 - 40[inch]0.394" - 1.575"TECHNICAL DATAWelding current, max.,[Amp DC]150Rotation speed, max.[U/min]10Drive motor with tachometer[VDC]24Electrode Ø[mm]1.6 (available option: 2.4)[inch]0.063 (available option: 0.094)Gas flow[I/min]5 - 20Gas typeArgon/Argon-Helium/Argon-HydrogenWater pressure, max.[bar]2,5Air pressure[bar]5 - 7Hose package length[m]7,5[It]25
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[ft] 25
Marking weight including have analyzed (ball 7.5
Machine weight including 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

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.



