

Orbital Tube Welding

AXXAIR

Quick Specs

Process

- Orbital Tube & Small-Bore Pipe Welding

Orbital Welding Range

- Weld Heads Range from: .25" – 4.5" dia.

Input Power

- 200 amp TIG converter
- 120A 100% duty cycle (230V/23 amps)
- 100A 100% duty cycle (110V/32 amps)

Tube Cutting & Facing: A proper tube preparation is essential to produce a proper weld. Red-D-Arc offers cutting and facing machines featuring stainless steel concentric jaws to prevent the deformation of the tubes while positioning the tube within the machine to provide a square burr free finish.

Orbital Fusion Welding: Excels when the quality of the finished weld joint must be of the highest quality, both internally and externally. An automated fusion welding process delivers uniform and repeatable welds required in sanitary applications such as Aerospace, Food & Beverage, and Pharmaceutical.

Applications

- Aerospace
- Food & Beverage
- Semi-Conductor
- Automotive
- Pharmaceutical
- Biotech / Medical

AXXAIR automatic orbital welding equipment is designed to meet or exceed critical welding specifications that require high quality, repeatable, and sanitary welds.

Red-D-Arc provides a range of closed welding heads (SATF & SATFX series) that allows you to make very high-quality welds in areas with limited clearance or space.

Closed heads provide optimum gas protection (closed chamber) which results in welds with very limited colorations. They are recommended for welding stainless steel tubes of wall thickness <3 mm in simple fusion without added wire (Autogenous). It is essential for welding titanium which is very sensitive to oxidation.

The inverter power source is simple and intuitive to set-up by taking user step by step through a welding profile, which can then be saved to USB. System has data acquisition with built-in printer and capability to store last 999 welds to an inserted USB drive.



AXXAIR Orbital Cutting Saws

- Cutting without deforming the tube thanks to concentric SS clamping jaws
- Ideal for thin wall stainless steel tube and pipe
- A cut with perpendicularity < 0.010" and excellent, burr-free surface preparation.
- Cutting Range: .25" – 12.50" dia.



AXXAIR & Tri Tool Facers

- Burr-free tube squaring and beveling machine
- Squaring and beveling in one operation
- Ideal tool to face a band saw cut before automatic welding
- AXXAIR Bench Models: .5" – 12.5"
- Tri Tool 300STS-2: .188" - 2.375"



AXXAIR Closed Weld Heads

- Red-D-Arc offers the SATF & SATFX Weld heads in various sizes from: .25" – 4.5" dia. OD
- Water-cooled weld heads with remote control buttons integrated into handle
- SATFX heads with grease-free operation: compatible with clean room standards

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Red-D-Arc™