

TC150 Sealed Orbital TIG Welding Head for Tube-to-Tube Joints

Our Product Introduction

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Basic Information

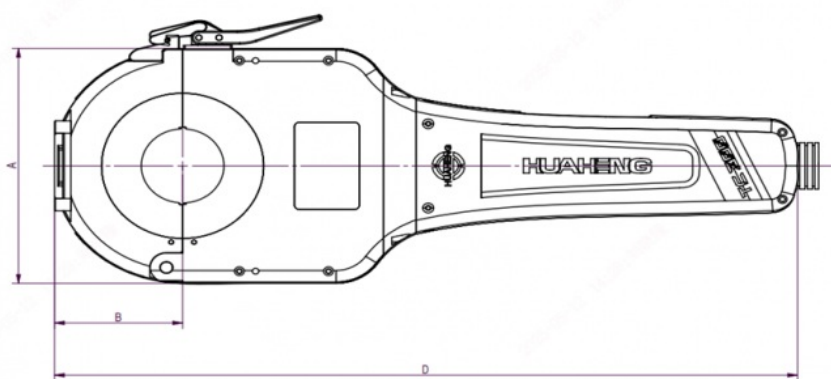


Product Specification

- Model: TC150
- Weldable Pipe Diameter (mm): $\Phi 6$ $\Phi 38.1$ mm
- Rotation Speed (rpm): 0.6–11.9
- Shielding Gas: Argon
- Cooling Method: Water
- Dimensions (mm): 405×110×42

Product Description

This machine is a specialized orbital automatic TIG (Tungsten Inert Gas) welding head designed for butt welding of tubular components without filler wire. Prior to welding, the sealed chamber is filled with shielding gas to ensure optimal weld protection. Both the head body and fixture feature internal cooling. Customized compound fixtures within the client-specified pipe diameter range ensure precise workpiece alignment, eliminating the need for tack welding, thereby delivering high efficiency and superior weld quality. The system achieves precise orbital TIG tube/tube welding with exceptional repeatability and ideal results. It is widely used in electronics, instrumentation, pharmaceutical, engineering installation, military, and nuclear power industries for tube/tube welding applications



Key Characteristics

Suitable for thin-wall pipes: carbon steel, stainless steel, titanium, and titanium alloys

Compatible with multiple joint types: tube-tube, tube-elbow, tube-tee, tube-flange, etc.

Lightweight aluminum construction with ergonomic streamlined 3D design

Key Characteristics

Patented gas path design and fully sealed chamber structure for enhanced shielding effectiveness

Flexible automatic centering fixture with hidden quick-release mechanism enables rapid on-site installation

Self-fusing orbital welding method without filler wire, ideal for field operations

Water-cooled head for extended continuous operation

Integrated handle controls for user-friendly operation

Model	TC150
Weldable Tube Diameter (mm)	Φ6–Φ38.1
Rotation Speed (rpm)	0.6–11.9
Shielding Gas	Argon
Cooling Method	Water
Cooling Flow Rate (ml/min)	≥300
Rated Current	75A 60% Duty Cycle
Dimension A (mm)	110
Dimension B (mm)	53
Dimension C (mm)	42
Dimension D (mm)	405
Weight (kg)	3.5 (excluding cable)
Overall Dimensions (mm)	405×110×42

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