

Power. Precision. Endurance.

Built for heavy-duty performance, the AutonoWeld™ Macro Weld Head Series takes on thick-wall pipe and mid- to large-diameter tubing with the precision of orbital GTAW (TIG) welding. These closed-style fusion heads deliver full 360° weld capability, water-cooled reliability, and contamination-free consistency, whether in the shop or the field.

From the compact versatility of the **S150** to the heavy-duty reach of the **S650**, the lineup is engineered to bring repeatability, control, and reliability to every pass. Compatible with **AW-215 orbital power supplies**, these heads are ready for the real work, whether in pre-fab shops or field work.



Industries:

- Pharma & Biotech
- Semiconductor & Electronics
- Food & Beverage
- Aerospace & Defense
- Nuclear & Energy
- Chemical & Petrochemical
- Industrial Fabrication

S-450 Closed-Style Fusion Head



S-350 Closed-Style Fusion Head



S-150 Closed-Style Fusion Head

S-650 Closed-Style Fusion Head

Quick Specs		S-150	S-350	S-450	S-650
Tube / Pipe OD Range		0.25" - 1.5"	0.39" - 3"	0.75" - 4.5"	1.5" - 6.625"
Head Weight		7.7 lb	11 lb	14.3 lb	20.9 lb
Rotation Speed		0.16 - 2.8 RPM	0.10 - 1.8 RPM		
Cable Length		26.2 ft			
Cooling Method		Water-cooled	Water cooled (closed circuit)	Water-cooled (high-flow)	

*compatible with the AutonoWeldAW-215PS power supply

OD Range/ Dimensions

Model No.	Tube / Pipe OD Range	Wall Thickness Range	Tungsten Electrode Diameter	Length	Width	Height
S-150	0.25" - 1.5"	0.020 - 0.098"	0.078"	15"	4.72"	1.89"
S-350	0.39" - 3"	0.020 - 0.118"	0.094"	17.26"	6.79"	2.05"
S-450	0.75" - 4.5"	0.020 - 0.118"	0.094"	20.2"	8.9"	1.9"
S-650	1.5" - 6.625"	0.020 - 0.118"	0.094"	25.6"	13"	6.4"

Standard Features:

Weld Process:

GTAW (TIG)

Compatibility:

AW-215 Orbital Power Supply

Cooling:

Standard quick-connect water lines with integrated flow monitoring

Operation:

0-360° all-position orbital welding

Shield Gas:

Argon (99.99% purity recommended)

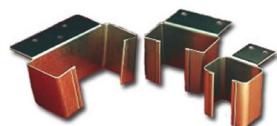
Safety Systems:

Water flow, argon flow, and over-temperature sensors

Optional Accessories



Clamp Insert



Bench Mount Brackets