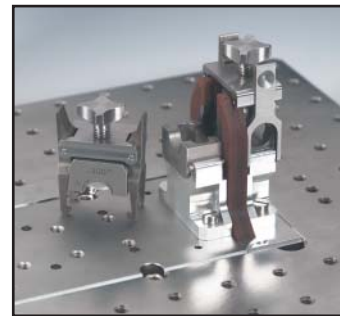


MODEL 4-500 BENCH-TOP WELD HEAD



The Model 4-500 is a fully integrated orbital tube weld head with an available component support and position tooling plate. It is designed for high-production bench welding of tubing, fittings, valves and other small component assemblies. It is ideally suited for sub-assembly of components for semiconductor, aerospace, biopharmaceutical and all other industries requiring high-integrity, high-purity welded assemblies.

Features include:

- All stainless steel, ball-bearing gear-drive
- Ceramic heat shields protect housing from heat and allow high duty-cycle operation
- Water-cooled base unit, tooling and rotor facilitates high duty-cycles and increases weld head longevity
- A torque-limited clutch protects the drive-train from damage
- Available with a variety of tooling
- Model 4-500 is compatible with all Model 9-500 / 9-500C tooling, and all AMI power supplies.

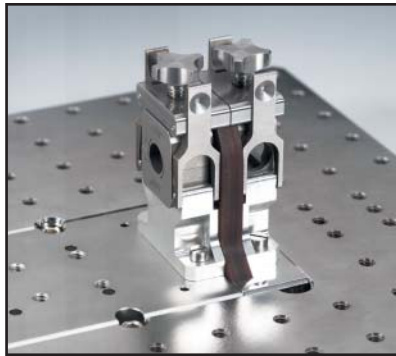
MODEL 4-500 BENCH-TOP WELD HEAD



The available fixturing/positioning plate is provided with an assortment of supports and fixture blocks. This tooling facilitates rapid and repeatable alignment and positioning of multiple welded components.



Model 4-500 shown without tooling plate.



Model 4-500 fitted with heavy-duty tooling for increased component support and automatic radial positioning of mini-fittings.



Model 4-500 fitted with Model 9-500TCA (narrow) tooling.

Weld head tooling consists of a variety of clamp assemblies. Some of which are universal, accommodating numerous fitting types, while other tooling is specific to its application. Consult factory for tooling recommendations.

Technical Data

Process:	GTAW (TIG)	Tooling plate:	12" x 12" (305 x 305mm)
Rotation speed:	1.00 – 20.00 RPM	Tube size range:	0.093" - 0.500" (2.4 – 12.7mm)
Electrode size:	0.040" (1mm)	Max. weld current:	75 amps
Cable length:	20 feet (6.1m)		

ARC MACHINES, INC.