



WELD HEAD **M500**

ORBITAL WELD HEADS FOR FUSION WELDING OF TUBES AND FITTINGS

The ultra-low profile M500 is designed for precision welding of fittings and components with minimal straight extensions as short as 6.35mm (0.25").

The M500 covers the size range of 3.18-12.7mm (.125-.500") using interchangeable, size-specific cartridge assemblies, or cartridges using interchangeable collets (Tube Clamp Inserts) providing the complete size range capability with a single cartridge.

The M500 is ideal for restricted clearance micro-fitting welding applications in the semiconductor, aerospace, instrumentation, and the hygienic process industries (pharmaceutical/biopharmaceutical).

Three different clamp assemblies allow the M500 to be tooled for all applications.

WELD HEAD M500

FEATURES

- Collets (TCI) for all tube/fitting geometries
- Flush cartridge assemblies without collets achieve narrowest configuration for welding of micro-fitting
- Flush cartridge with single collet for micro-fitting to tube provides optimal fit-up alignment
- Accepts Arc Machines (AMI) collets (tube clamp inserts) for 9-500
- Optional Quick Release Kit allows remote locating and clamping of components for an unobstructed view of the joint fit-up
- Waterproof carry case standard
- Bench mount bracket
- Convenient flip-up view port allows final inspection before welding
- Standard 7.6m (25') cable length
- Now available in two cable connector versions: For the Tubmaster 514 or AMI 205/207/217
- Housing body fabricated using Torlon 5030 material rated for an unprecedented 274°C (575°F). Allows high duty cycle without the need for water cooling
- Stainless steel rotor insures long wear life
- Collet frames hinge on the same side, allowing greater access to tight clearance welds



SPECIFICATIONS

Application	Orbital autogenous GTAW welding of tube-to-tube, tube-to-fitting
Cable length	7.6 m (25') standard
Power supply compatibility	Tubemaster models, Pipemaster models (Optional AMI 205,207,217)
RPM range	1-22
Tube diameter range	3.18-12.7mm (.125-.500")

MAGNATECH

AUTOMATIC PIPE WELDING SOLUTIONS

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