



805 810 820 8

WELD HEADS

805 810 820

830 840 860

MAGNATECH

ORBITAL WELD HEADS FOR WELDING OF TUBES

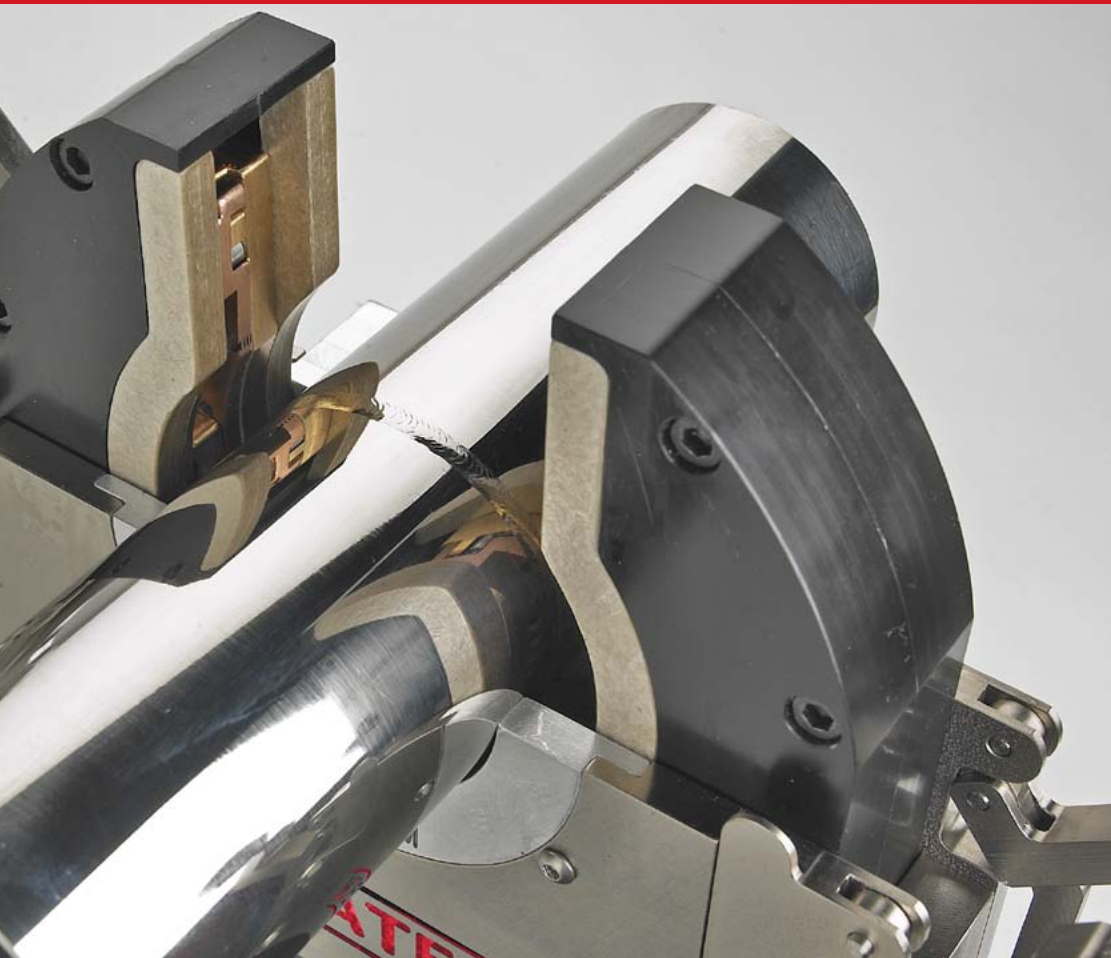
Magnatech introduces an entirely new line of orbital weld heads to operate tools for autogenous tube welding with overlapping ranges cover tube sizes from 1/8" (3.175" - 6") O.D. Magnatech's 800 series orbital weld heads for tube-to-tube and tube-to-fitting welding provide precision and repeatability. The design simplifies work piece fit-up and eliminates misalignment in many cases. Collets are available for all fitting sizes.

Features

- Collets for all tube sizes/fitting geometries
- Waterproof carry case standard
- Bench mount bracket
- Internal weld head cooling standard
- Convenient flip-up view port allows for visual inspection before welding
- Encoder motors provide precise, repeatable speed regulation
- "Jam" detection/protection.
If rotation stops for any reason, it is immediately sensed and power to the motor is immediately interrupted. No more damaged motor windings or gear trains

Accessories

- Extension cables allow use up to 23 meters
- Pre-ground tungsten electrodes
- Offset Tungsten Holders (Butt weld) allow for welding in restricted areas (such as short tangential joints)
- Offset Tungsten Holders (Fillet weld) allow for all types of fillet welds to be made



805 810 820 830 840 860 **WELD HEADS**

ORBITAL WELD HEADS FOR FUSION WELDING OF TUBES

Magnatech introduces an entirely new line of easy-to-operate tools for autogenous tube welding. Five models with overlapping ranges cover tubes from 3 – 152 mm (0,125” – 6”) O.D. Magnatech’s 800 series heads make tube-to-tube and tube-to-fitting welds in less time with precision and repeatability. The double-clamping design simplifies work piece fit-up and eliminates tack welding in many cases. Collets are available for any tube and fitting size.



Features

- Collets for all tube sizes/fitting geometries
- Waterproof carry case standard
- Bench mount bracket
- Internal weld head cooling standard
- Convenient flip-up view port allows final inspection before welding
- Encoder motors provide precise, repeatable speed regulation
- “Jam” detection/protection.
If rotation stops for any reason, it is instantly sensed and power to the motor is immediately interrupted. No more damaged motors or drive trains
- Standard 8 m (25’) hose pack length
- New rotation drive design tolerant of metal debris
- “Home” position switch automatically readies the head for removal following weld completion, and never requires adjustment
- Simple assembly makes field service straightforward

Accessories

- Extension cables allow use up to 23 m (75’) from power supply
- Pre-ground tungsten electrodes
- Offset Tungsten Holders (Butt weld) allow use when axial clearance restrictions exist (such as short tangent fittings)
- Offset Tungsten Holders (Fillet weld) allow fillet (socket) welds to be made



Tungsten Electrodes

805 810 820 830 840 860 WELD HEADS

Specifications

Application	Orbital autogenous GTAW welding of tube-to-tube, tube-to-fitting
Cable length	7.6 m (25') standard. Extension cables available
Power supply compatibility	Tubemaster models, Pipemaster models

Dimensions/weights

	805	810	820	830	840	860
Tube Diameter Range	3-16 mm (.125-.625")	3-25 mm (.125-1.0")	6-51 mm (.25-2.0")	9-75 mm (.375-3.0")	12-102 mm (.5-4.0")	50-152.4 mm (2-6.0")
RPM Range	1.8 - 2.0	0.6 - 9.5	0.3 - 5.0	0.1 - 2.5	0.1 - 2.3	0.1 - 2.0
Weight	2.5 kgs (5.5 lbs.)	3.2 kgs (7 lbs.)	5.0 kgs (11 lbs.)	6.4 kgs (14 lbs.)	8.2 kgs (18 lbs.)	10.0 kgs (23 lbs.)
"A"	91 mm (3.6")	124 mm (4.90")	175 mm (6.89")	202 mm (7.96")	231 mm (9.10")	297 mm (11.71")
"B"	36 mm (1.4")	62 mm (2.45")	83 mm (3.26")	96 mm (3.79")	110 mm (4.31")	144 mm (5.65")
"C"	31.3 mm (1.3")	42 mm (1.64")	43 mm (1.70")	43 mm (1.70")	43 mm (1.70")	43 mm (1.70")
"D"¹	15 mm (0.6")	19.5 mm (.77")	19.5 mm (.77")	19.5 mm (.77")	19.5 mm (.77")	19 mm (.75")

¹ Distance from nearest flush collet face to tungsten centerline. (Tungsten offset from center)

