

WELD HEADS 805 810 820 830 840 860

MAGNATECH



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") 0.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 weldcompletion, and never requires adjustment
- Simple assembly makes field service straightforward

Accessoiries

- 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

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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	3-16 mm	3-25 mm	6-51 mm	9-75 mm	12-102 mm	50-152.4mm
Range	(.125625")	(.125-1.0")	(.25-2.0")	(.375-3.0")	(.5-4.0")	(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	3.2 kgs	5.0 kgs	6.4 kgs	8.2 kgs	10.0 kgs
	(5.5 lbs.)	(7 lbs.)	(11 lbs.)	(14 lbs.)	(18 lbs.)	(23 lbs.)
"A"	91 mm	124 mm	175 mm	202 mm	231 mm	297 mm
	(3.6")	(4.90")	(6.89")	(7.96")	(9.10")	(11.71")
"B"	36 mm	62 mm	83 mm	96 mm	110 mm	144 mm
	[1.4"]	(2.45")	(3.26")	(3.79")	4.31")	(5.65")
"C"	31.3 mm	42 mm	43 mm	43 mm	43 mm	43 mm
	(1.3")	(1.64")	(1.70")	(1.70")	(1.70")	(1.70")
"D" ¹	15 mm	19.5 mm	19.5 mm	19.5 mm	19.5 mm	19 mm
	(0.6")	(.77")	(.77")	(.77")	(.77")	(.75")

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

