

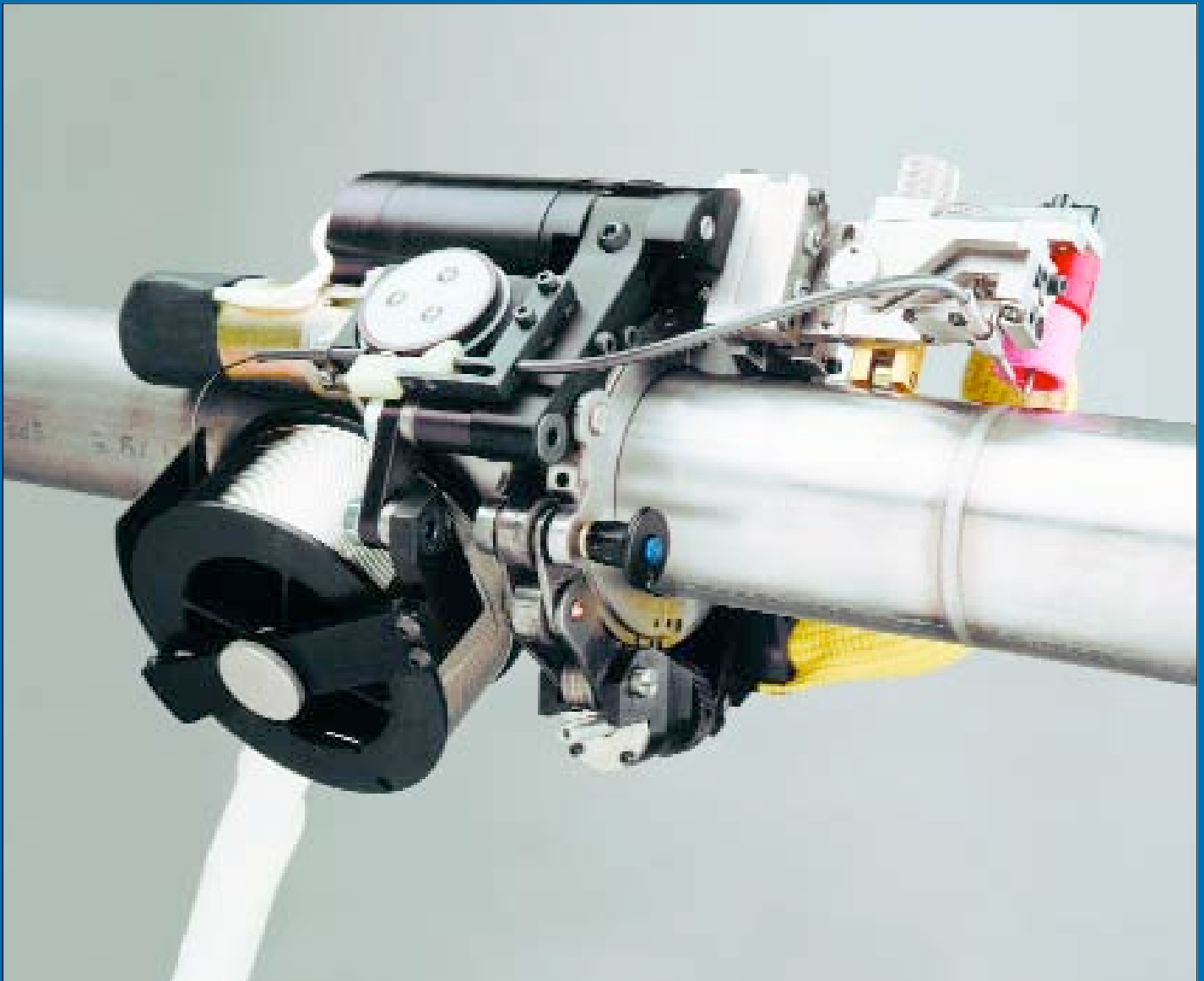
MAGNATECH

ORBITAL WELDING SYSTEMS

E-HEAD

Model 441

Orbital Weld Head for Fusion
and Wire Feed GTAW Pipe Welding



Use with

- *Tubemaster Model 514 Power Source*
- *Pipemaster Model 515 Power Source*
- *Pipemaster Model 516 Power Source*

E-HEAD Weld Head

Orbital Weld Head for Fusion and Wire Feed GTAW Pipe Welding

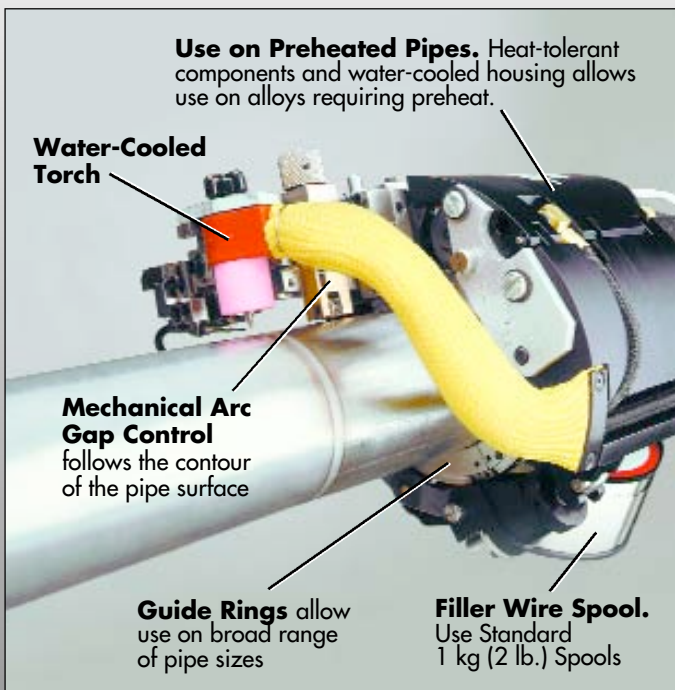
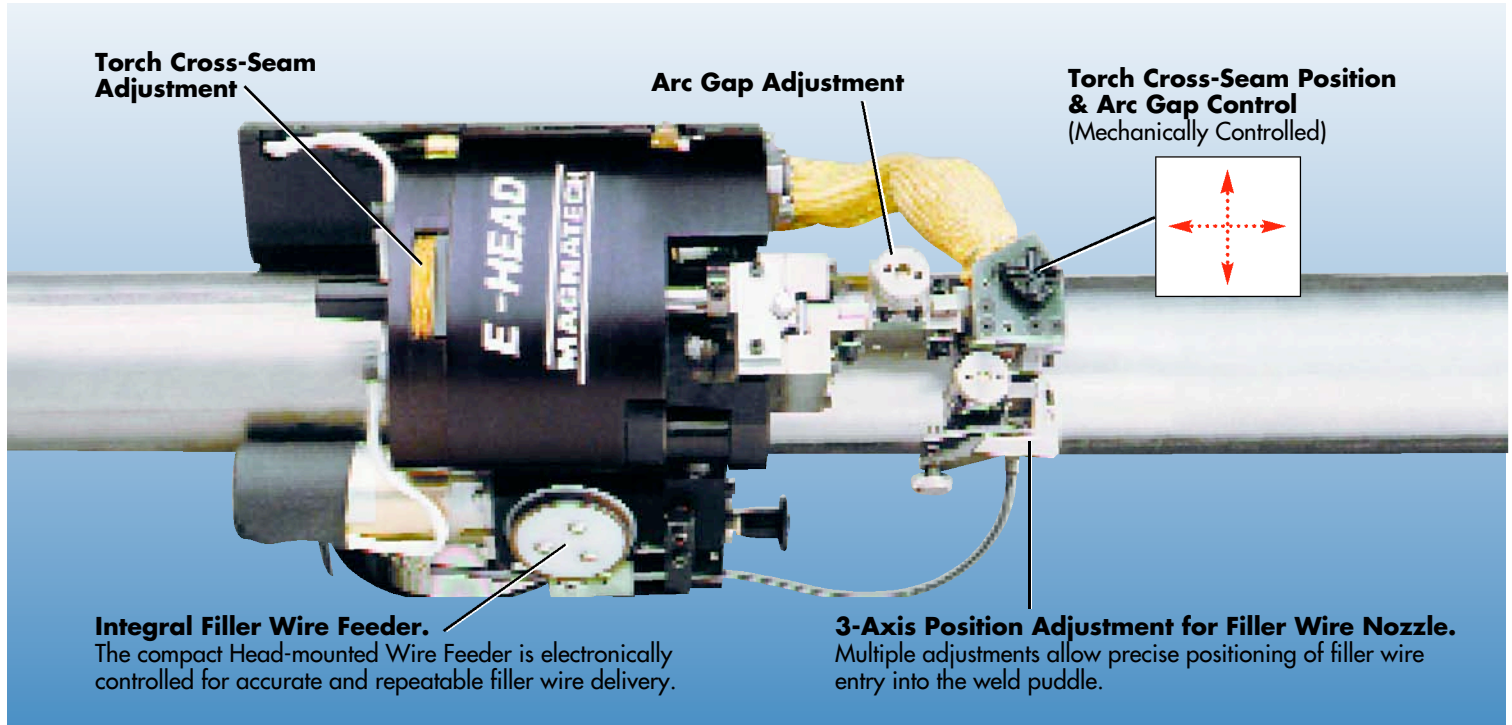
Precision Tools for Perfect, Repeatable Welds

The Magnatech E-Head is designed to make pipe-to-pipe and pipe-to-fitting welds. The E-Head can be used for fusion welding, or with filler wire addition – an integral Head-mounted feeder is standard.

Interchangeable Guide Rings provide mounting on the pipe, and allow the E-Head to cover a broad size range.

The E-Head improves productivity by increasing duty cycle, reducing repair rates, and producing welds of consistent quality.

Digital technology forever eliminates the need for periodic calibration – rotation and filler wire speeds remain accurate regardless of wear, and Heads can be interchanged without time-consuming recalibration.



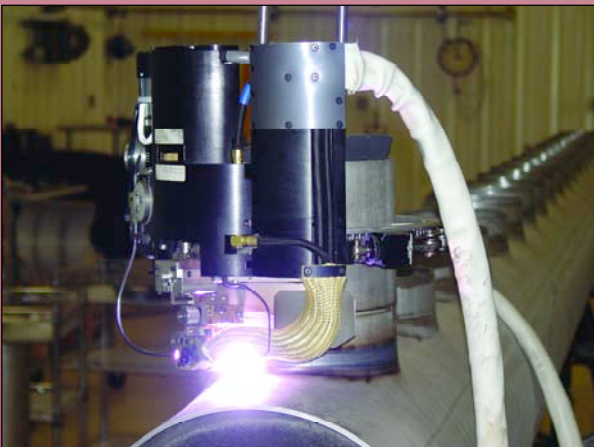
Weld Head Mounting/Rotation

The E-Head mounts on the pipe by means of metal Guide Rings, which are available for all standard pipe sizes from 31.8mm (1.5") to 355.6mm (14") pipe and tube sizes from 44.45mm (1.75") to 114mm (5") OD. The positive drive system and digital regulation guarantees uniform speed.



Features

- Torch Rotation, Filler Wire Feed
- Broad Pipe Size Range
- Guide Rings available for all Standard Tube/Pipe Sizes
- Mechanical Arc Length Control compensates for Out-Of-Round Pipe
- Waterproof Carry Case/Tool Kit Standard



Options

- Socket Weld Kit – fixed 45 degree angle
- Extension cables

Applications

- Pharmaceutical
- Sanitary (Hygienic) Process Piping
- Food Processing/Dairy
- Brewery Tubing
- Steam Piping
- Methanol Plants
- Chemical



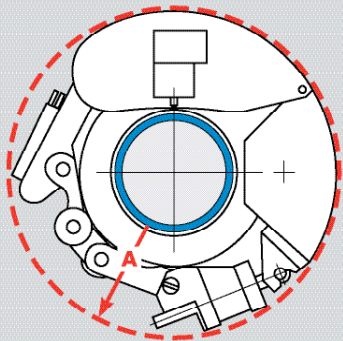
Specifications

Application	Orbital GTAW welding of pipe-to-pipe, pipe-to-fittings. Fusion/wire feed capable	
Cable Length	8m (25') Standard. Extension cables available	
Pipe (Tube) Size	44m–356mm (1.75–14")	
Filler Wire Feeder	Wire Size:	0.8, 0.9, 1.0mm (.030", .035", .040")
	Speed Capability:	250cm/minute (100 ipm)
	Spool Size:	1kg (2 lbs)
Cross Seam Adjustment	±9.5mm (±.375")	
Arc Gap Control Stroke	1.3cm (0.5")	
Rotation Speed	25cm/minute (10 ipm)	
Water Cooled Torch	Amperage Capability	200 A continuous
Torch Adjustment Capability	Torch Lead/Lag Adjustment:	±15 degrees (manual)
	Torch Tilt Adjustment:	± 10 degrees (manual)

Weight & Dimensions

Weight	3.6kg (8 lbs)	
Axial Clearance	Torch C/L to Rear Extremity:	26.5cm (10.4")
	Torch C/L to Front Extremity:	1 cm (0.4")
"A" Radial Clearance	6.4cm (2.5") with arc gap control mechanism at center stroke. (Requires 70mm. [2.75"] for full stroke)	

E-Head Radial Clearance for Pipe Sizes 48mm (1.8") and Larger: 64mm (2.5")



Represented By:

MAGNATECH

Headquarters: **MAGNATECH LIMITED PARTNERSHIP**
 6 Kripes Road, P.O. Box 260, East Granby, CT 06026-0260
 Telephone: (+1) 860 653-2573 • Fax: (+1) 860 653-0486
 E-Mail: info@magnatech-lp.com
 Web Site: www.magnatech-lp.com

European Office: **MAGNATECH EUROPE BV**
 Ambachtshof 15, 8251 KV Dronten, The Netherlands
 Telephone: (+31) 321 38 6677 • Fax: (+31) 321 31 4165
 E-Mail: info@magnatech-europe.com
 Web Site: www.magnatech-europe.com