

QUICKCLAMP 432 433

ORBITAL WELD HEADS FOR MULTI-PASS GTAW PIPE WELDING

The Magnatech Quickclamp weld heads are designed to make pipe-to-pipe and pipe-to-fitting welds. They are “full function” – with the capability of reproducing all the precise motions of a skilled welder. A continuously adjustable clamp eliminates the need to interchange components when changing pipe sizes. Simply slip the head over the pipe and clamp with a toggle lever. The Quickclamp heads improve productivity by increasing duty cycle, reducing repair rates, and producing welds of consistent quality.

- Chain drive system guarantees long life time
- Rugged design
- Easy torch angling for fillet/socket welding

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CABLE GUIDES

Control torch cable wrap up – prevent damage.

TORCH OSCILLATION (WEAVE)

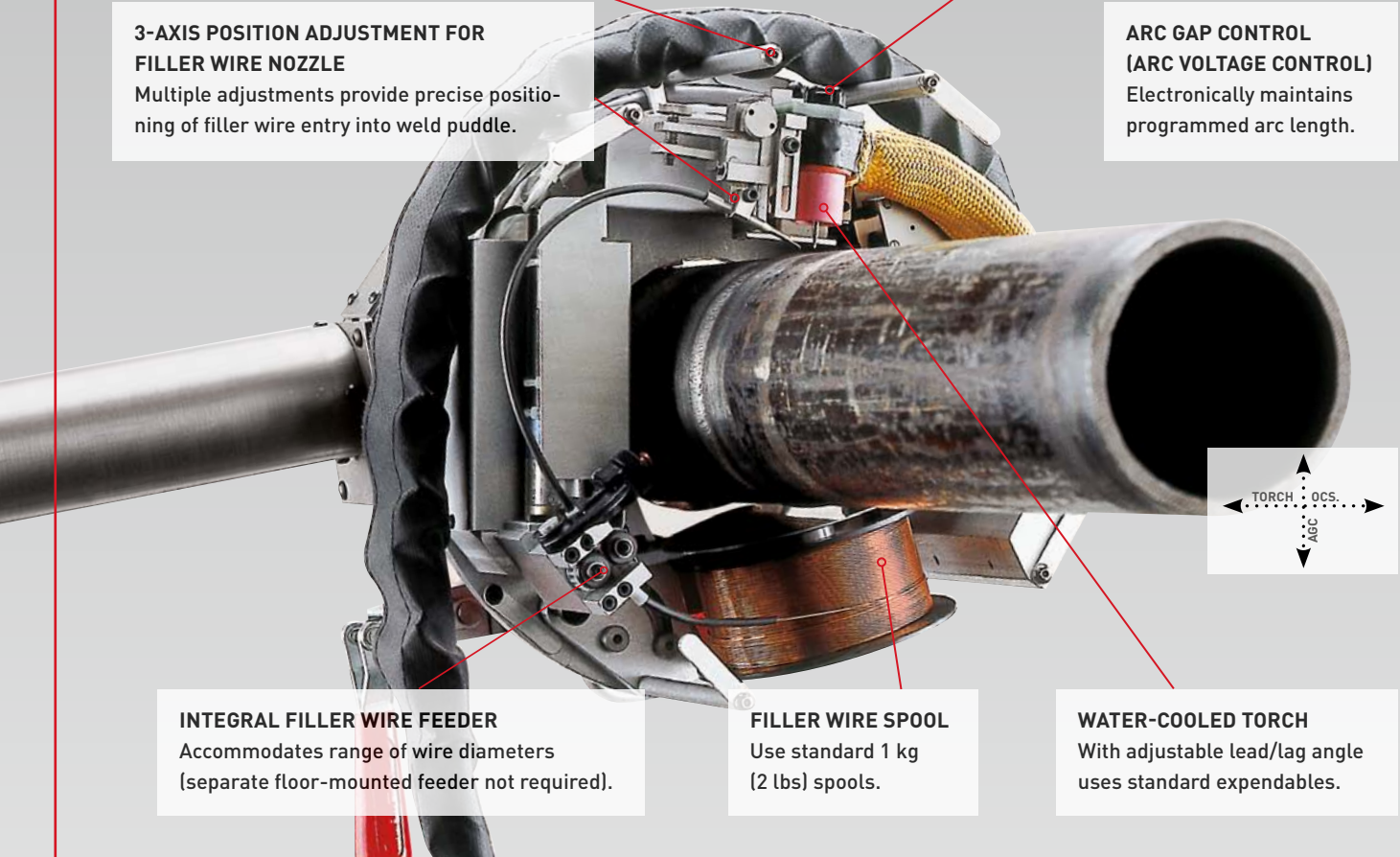
Width, speed, and endpoint “dwell” independently programmable. Torch “cross seam” steering electronically controlled using remote pendant. Pulsed current automatically synchronized with torch oscillation.

3-AXIS POSITION ADJUSTMENT FOR FILLER WIRE NOZZLE

Multiple adjustments provide precise positioning of filler wire entry into weld puddle.

ARC GAP CONTROL (ARC VOLTAGE CONTROL)

Electronically maintains programmed arc length.



INTEGRAL FILLER WIRE FEEDER

Accommodates range of wire diameters (separate floor-mounted feeder not required).

FILLER WIRE SPOOL

Use standard 1 kg (2 lbs) spools.

WATER-COOLED TORCH

With adjustable lead/lag angle uses standard expendables.

SPECIFICATIONS

	QUICKCLAMP MODEL 432	QUICKCLAMP MODEL 433
Application	Multi-pass orbital GTAW pipe-to-pipe, pipe-to-fitting	
Pipe (tube) OD size range	25 – 89 mm (1.0” – 3.5”)	60 – 168 mm (2.375” – 6.625”)
Filler wire module	Wire size: 0.8, 0.9, 1.0 mm (.030, .035, .040”) Max. speed capability: 2540 mm/min. (100 IPM)	
Oscillation module	Max. oscillation stroke amplitude: 16 mm (0.625”) Max. oscillation speed: 1520 mm/min. (60 IPM) Oscillation dwell: 0 – 1 second Cross seam adjustment: ± 6.4 mm (± 0.25”)	
Arc gap control module	13 mm (0.5”) stroke. Additional mechanical adjustment allows welding heavier wall pipe	
Torch propulsion module	0.1 – 1.8 rpm	0.05 – 0.9 rpm
Water-cooled torch	200 A continuous	
Torch adjustment capability	Torch lead/lag adjustment: ± 15 degrees (manual) Torch tilt adjustment: ± 10 degrees (manual)	
Cable length	7.6 m (25’) standard. Extension cables available	
Power supply compatibility	Pipemaster 515, Pipemaster 516	