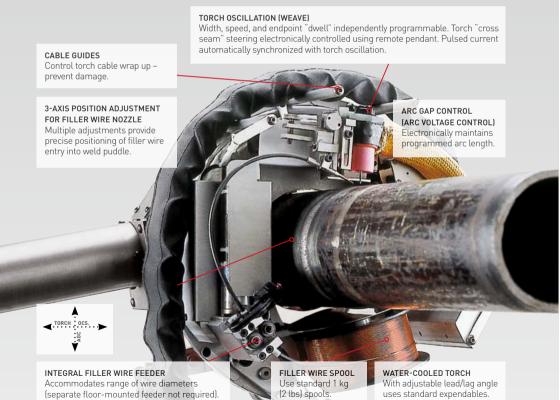


QUICKCLAMP 432 433

MAGNATECH



432 433 QUICKCLAMP

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.



Features

- Multipass welding of tubes/pipes in all gravity positions
- Use economical standard 1 kg (2 lb.) wire spools
- Push button clutch for rapid cable unwind
- Heat tolerant steel bearings and chain drive
- Waterproof Carry Case/Tool Kit standard
- Socket Welding Kit and Tilt AVC option for angled torchapplications
- Water-Cooled Torch uses standard expendables

Options

Extension cables



TILT-AVC standard. Allows the torch to be pivoted for socket/fillet welding applications, maintaining the arc length correction motion along the tungsten electrode axis [tilt-torch bracket also provided standard].



HEAD mounts entirely on one side of the joint, allowing use for pipe-to-fitting welds.



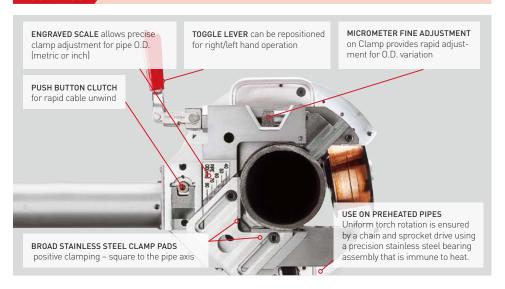
PIVOTING SPOOL MOUNT Unique design maintains tension on wire, prevents bending (not required on Model 433)



NARROW AXIAL PROFILE

QUICKCLAMP 432 433

Features



Applications

- Fossil Power Plant Construction/Maintenance
- Steam Generation Equipment Fabrication
- Nuclear Power Plant Construction/Maintenance
- Shipvard Construction

- Fabrication Shops
- Chemical/Petrochemical Facility Construction and Maintenance
- Process Pipina









432 433 QUICKCLAMP

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		

Dimensions/weights

QUICKCLAMP MODEL	432	433
Weight	5.9 kg (13.0 lb.)	8.1 kg (17.8 lb.)
Axial Clearance (Torch Centerline to Rear Extremity) (A)	158 mm (6.24")	158 mm (6.24")
Axial Clearance (Torch Centerline to Front Extremity) (B)	10 mm (0.41")	10 mm (0.41")
Width (C)	241 mm (9.50")	321 mm (12.63")
Radial Clearance Requirement (D)		321 mm (12.63") - Pipe OD
	÷ 2 = Radial Clearance	÷ 2 = Radial Clearance

