

Model 13

RUGGED WELD HEAD

AMI[®]
AN ESAB[®] BRAND



THE WIDEST RANGE OF ORBITAL WELDING EQUIPMENT IN THE WORLD

Arc Machines' Model 13 is a rugged weld head manufactured to mount directly on 8" to 20" elbows from 42.5 to 199 degrees. The unique mounting system allows the head to be used when welding an elbow directly to another elbow with a wall thickness up to 1.375". Originally designed for very restrictive applications such as naval installations and power generation plants.



INDUSTRY

- Nuclear
- Power Generation
- Shipyards
- Offshore
- Oil and Gas



RUGGED WELD HEAD

FEATURES

- Intended for automated welding of 8" to 20" O.D. short radius elbow to short radius elbow
- Extremely rugged 300 AMP water-cooled torch and body
- Compatible with Arc Machines' Model 317 and 415 Power Supply
- Mounts quickly and aligns rapidly to the unique curves of a short radius elbow
- Optional kit permits pipe-to-pipe welds

SPECIFICATIONS

- Servo-controlled rotation
- Servo-controlled AVC
- Servo-controlled synchronized wire feed
- Servo-controlled torch oscillation and dwell
- Electronically controlled torch steering
- Compatible with Model 317 and Model 415 Power Supply
- Water-cooled torch
- Remote-controlled, motorized wire nozzle adjustment
- Mounting plate for straight pipe
- Dual wire feed for welding in both directions

Visit arcmachines.com for more information.

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| TECHNICAL DATA | |
|----------------------------------|---|
| Process | GTAW |
| Arc Voltage Control | Automatic |
| Radial Clearance | 6.21" |
| Axial Clearance | 6.09" |
| Rotation speed | 0.02 - 0.25 RPM |
| Wire Feed Speed | 5 to 200 IPM |
| Wire Spool Size | 2 lbs. (4") |
| Filler Wire | 0.030 - 0.045" |
| Torch | Water-cooled, 300 ADC 100% duty cycle |
| Torch cross-seam Steering range: | 1.75" - 2.00" |
| Torch Adjustments | Adjustable lead/lag $\pm 10^\circ$ Tilt In/Out $\pm 15^\circ$ |
| Tungsten Size | 0.125" (0.093" optional) |
| Wire Manipulator | Remote, Motorized |
| Weight | 24 lbs. (less cables) |



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MANAGEMENT SYSTEMS

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