

Model 43

INSIDE DIAMETER PIPE WELD HEAD

AMI[®]
AN ESAB[®] BRAND



THE WIDEST RANGE OF ORBITAL WELDING EQUIPMENT IN THE WORLD

The Model 43 is a rugged inside diameter welding head for ID cladding or welding of pipe joints. It is designed for remote controlled repair welds of nuclear valves and has been used extensively in nuclear components assembly plants as well as fossil fuel power generation, chemical, and vessel manufacturing.

The Model 43 can be equipped with a wide variety of GTAW torches and wire feed options including a remote controlled torch equipped with an AMI advanced arc viewing video system.

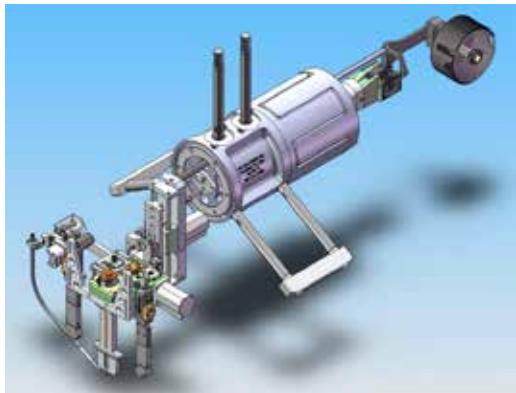
The main housing of the Model 43 is water cooled allowing the weld head to be used for applications which require high preheated conditions.

INDUSTRY

- Remote controlled ID cladding, welding and repair
- Vessel manufacturing
- Nuclear
- Power Generator
- Shipyard
- Offshore
- Oil and Gas

FEATURES

- Servo-controlled rotation
- Servo-controlled AVC
- Servo-controlled synchronized wire feed
- Servo-controlled torch oscillation and dwell
- Electronically controlled torch steering
- Water-cooled body for use in pre-heated pipes
- Remote-controlled, motorized wire nozzle adjustment
- Remote-controlled, motorized torch tilt



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OPTIONAL HARDWARE

- Direct-view cameras, to monitor leading and trailing edges of weld puddle
- Dual wire feed to weld in either direction
- Large selection of torches for welding inside diameters
- Remote vision torch with direct-view video cameras and remote torch tilt/remote wire manipulation

Visit arcmachines.com for more information.

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QUICK SPECS	
AVC Stroke	1.75" (44 mm) or 3.00" (76 mm) optional
Torch Oscillation	1.00" (25 mm) maximum 1.5" (38 mm) optional
Wire Feed Speed	1.0 - 200 IPM (25 - 5000 mm/min.)
Travel Speeds	0.005 - 0.5 RPM
Tungsten Size	3/32" or 1/8" (2.4 or 3.2 mm Ø)
Filler Wire	0.030" or 0.035" (0.8 or 0.9 mm Ø)
Wire Spool	2 lbs. or 4" standard spool (1 kg or 100 mm Ø spool)
Torch Cross-Seam Steering Range	2.00" (50 mm) or 3.00" (76 mm) optional
Weight Including Remote Vision	36 lbs. (less cables) (16 kg)
ID Range	6.75" - 24.0" (171 - 610 mm)
Torch	Water-cooled, 250 A, 100% Duty Cycle
Remote Torch Tilt	+/- 15°

COMPATIBLE AMI POWER SUPPLIES

The Model 43 is compatible with the following AMI Power Supplies:

MODEL 415

PROGRAMMABLE HEAVY DUTY
MULTIFUNCTION POWER SUPPLY



MODEL 501

HOT WIRE POWER SUPPLY



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GLOBALLY CERTIFIED
MANAGEMENT SYSTEMS