

Model 73

SMALL-BORE ID PIPE WELD HEAD

AMI[®]
AN ESAB[®] BRAND



THE WIDEST RANGE OF ORBITAL WELDING EQUIPMENT IN THE WORLD

The Model 73 weld head is designed to make butt weld, cladding and weld overlay repairs by remote control on the inside diameters (ID) of piping and specialized valve systems. The Model 73 is a smaller version of the industry standard Model 43 weld head. It is a rugged, field-proven weld head for use in small diameter pipe and other limited radial clearance applications.

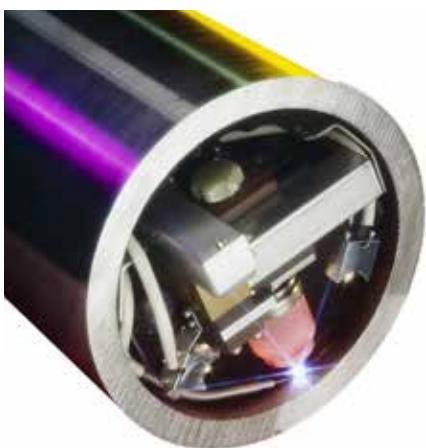
The standard weld head is equipped with an AVC (Arc Voltage Control), Torch Oscillation (weaving), onboard Wire Feeder, and Travel for use in small diameters. The weld head can also be equipped with a remote arc viewing system and remote controlled wire manipulator (wire up/down and in/out) that allow adjustment of the filler wire to electrode relationship.

INDUSTRY

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

FEATURES

- Small-bore ID weld head with 250A GTAW torch
- Servo-controlled rotation
- Servo-controlled AVC
- Servo-controlled synchronized wire feed
- Servo-controlled torch oscillation and dwell
- Electronically controlled torch steering
- Built-in wire-feeder and wire spool holder
- Water-cooled body for use in pre-heated pipes



OPTIONAL HARDWARE

- 1" AVC stroke (25 mm) to allow use in 5.160" (131 mm) ID
- 2" AVC stroke (50 mm) to allow use in 5.66" (144 mm) or larger ID
- Large selection of torches for limited reach welding ID as small as 1.125" (29 mm) available
- Remote torches with motorized wire feed manipulators and video options available

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QUICK SPECS	
AVC Stroke	2" (504 mm) or 1" (25 mm) optional
Wire Feed Speed	5 - 200 IPM (13 - 500 cm/min.)
Rotation Speed	0.05 - 1.0 RPM
Remote Torch Tilt	+/- 15°
Tungsten Size	3/32" or 1/8" (2.4 mm or 3.2 mm Ø)
Filler Wire	0.030" or 0.025" (0.8 mm or 0.6 mm Ø)
Wire Spool	2 lbs. or 4" standard (1 kg or 100 mm Ø)
Torch	Water-cooled 250 A DC 100% Duty Cycle
ID Range	5.16" - 20" (131 mm - 508 mm)
Weight	40 lbs. (less cables) (18 kg) including remote vision system
Torch Cross-Seam Steering Range	1.88" (47 mm) or 0.88" (22 mm) at max. oscillation

COMPATIBLE AMI POWER SUPPLIES

The Model 73 is compatible with the following AMI Power Supplies:



MODEL 415
PROGRAMMABLE HEAVY DUTY
MULTI-FUNCTION POWER SUPPLY



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