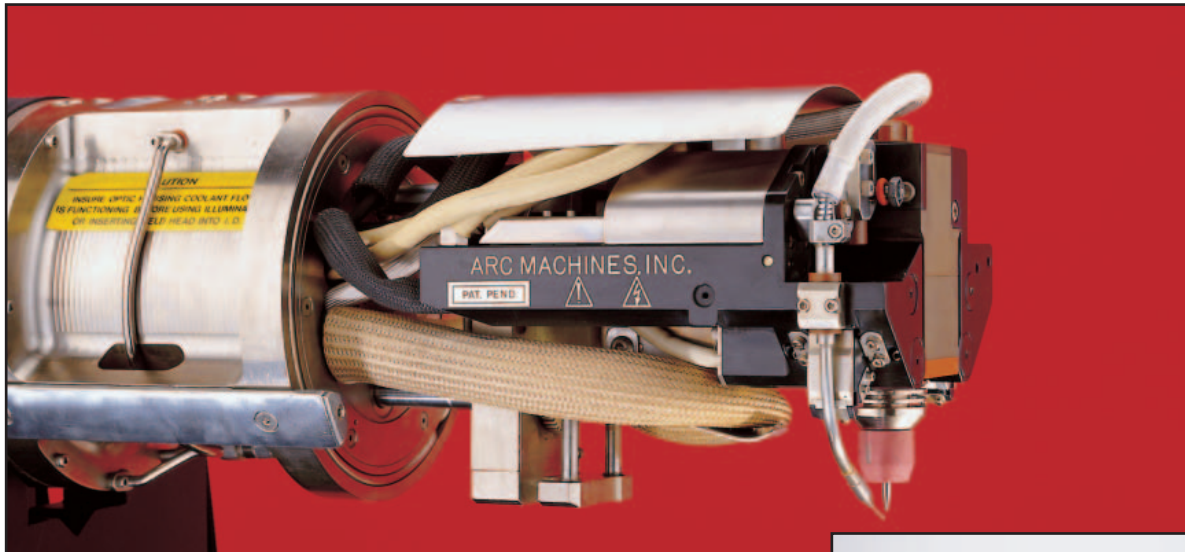


MODEL 43 I.D. PIPE WELD HEAD



- Rugged, Reliable I.D. weld head with 300 amp GTAW torch
- Range from 6.750" (171mm) I.D. to 24" (610mm) I.D. with direct-view color TV cameras
- Pneumatically operated cylinders that center and position the weld head
- Extremely fast mount / dismount times
- Automatic arc voltage control
- Cross-seam steering
- Synchronized torch oscillation and pulsed wire feed
- Remote-control torch tilt $\pm 15^\circ$ (cross-seam)
- Built-in wire feeder and wire spool holder

MODEL 43 PIPE WELD HEAD

The Arc Machines' Model 43 is an inside diameter welding head for I.D. cladding or welding of pipe joints or other applications. It is a rugged, field-proven weld head and has been used extensively in nuclear repair and nuclear components assembly plants as well as fossil-fuel power generation, chemical, and vessel manufacturing.

Options include:

- Remote Vision Torch with direct-view video cameras and remote torch tilt/remote wire manipulation
- Dual Wire Feed: Offers the addition of filler wire while welding in either direction
- Large Selection of Torches: Torches are available for welding inside diameters as small as 1.125" (28,5mm) I.D. (special applications).

The Arc Machines Model 43 Offers:

- Servo-controlled rotation
- Servo-controlled AVC
- Servo-controlled synchronized wire feed
- Servo-controlled torch oscillation and dwell
- Electronically controlled torch steering
- Compatible with Arc Machines' Model 215 or Model 415 Power Supplies
- Water-cooled body for use in pre-heated pipes
- Remote-controlled, motorized wire nozzle adjustment
- Remote-controlled, motorized torch tilt
- Direct-view cameras, looking at leading and trailing edges of weld puddle

Technical Data

Process:	GTAW (TIG)	Torch Oscillation Amplitude, max:	1.00" (25mm)
Arc Voltage Control:	1.75" (44mm) or 3.00" (76mm) optional	Wire Manipulator (Remote motorized):	Vertical & Horizontal
Travel Speeds:	0.005 to 0.5 RPM	Filler Wire:	0.030" or 0.035" (0,8 or 0,9mm Ø)
Wire Feed Speeds:	1.0 to 200 IPM (25 - 5000mm/min.)	Wire Spool:	2 lb. or 4" standard spool (1 kg or 100mm Ø spool)
Torch:	Water-cooled, 250 ADC 100% duty cycle torch tilt (±15°)	Weight Including Remote Vision:	36 lbs. (less cables) (16 kg)
Tungsten Size:	3/32" or 1/8" (2,4 or 3,2mm Ø)		
Torch Cross-seam Steering Range:	2.00" (50mm) or 3.00" (76mm) optional		

ARC MACHINES, INC.