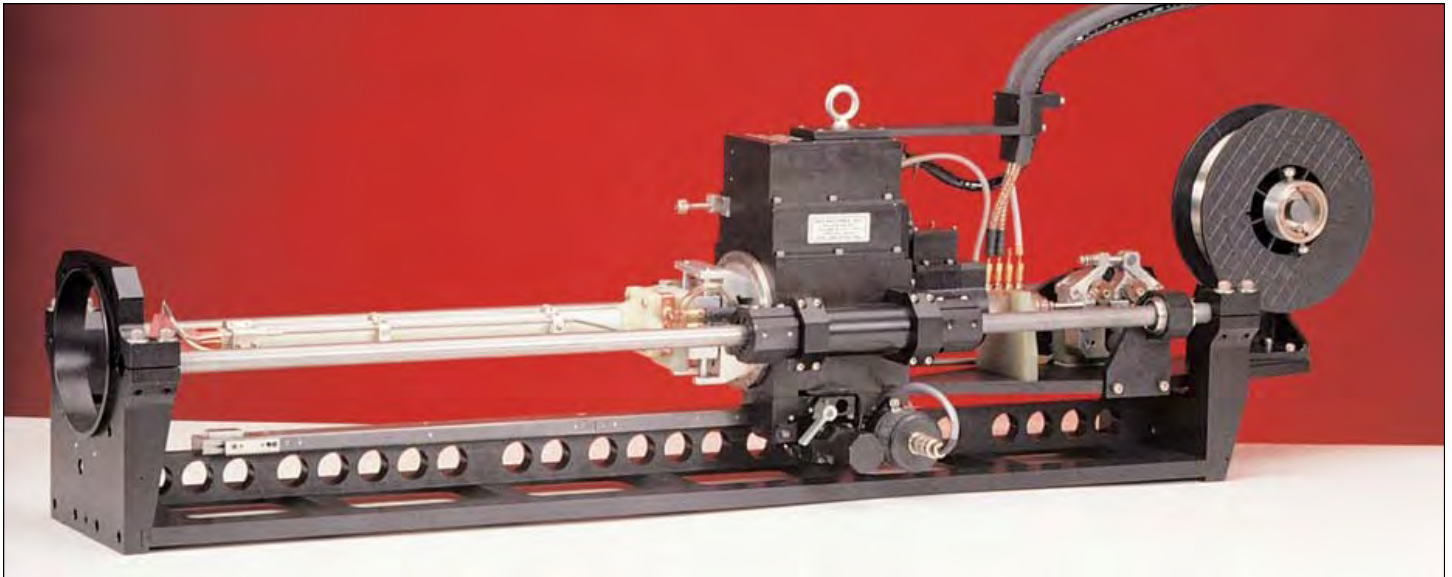


# MODEL 94

## ID SPIRAL CLADDING WELD HEAD

**AMI**  
ARC MACHINES, INC.®

*The widest range of orbital welding equipment in the world*



The Model 94 is a rugged weld head designed for high production spiral or step ID cladding and groove welding on small diameter pipes, fittings and vessel inlet/outlets, using the GTAW (TIG) process with cold wire feed. The Model 94 is a stable, precise and repeatable platform for manipulating many different torches for welding and cladding operations.

The Model 94 uses accessories to accurately position the weld head in axial alignment with the part to be clad. A manual travel clutch allows fast insertion and extraction of the torch and axial readout gives precise torch location. The use of commutators in the M94 allows continuous torch rotation. Cables are stationary. The M94 is self-supporting on the work piece and can operate in any position.

### QUICK SPECS

#### AVC Stroke

0.625"  
(16 mm)

#### Wire Feed Speed

5 - 100 IPM

#### Rotation Speed

0.1 - 2.0 RPM  
(13 - 250 cm/min.)

#### Axial Speed

0.020 - 1.01 IPM  
(0,50 - 25 mm/min.)

#### Axial Travel

24" or 34"  
(610 or 864 mm)

#### Tungsten Size

3/32" or 1/8"  
(2,4 or 3,2 mm Ø)

#### Filler Wire

0.030" recommended  
(0,8 mm Ø)

#### Wire Spool

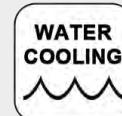
8" or 4" diameter  
(200 or 100 mm Ø)

#### ID Range

0.68" - 6.75"  
(17—171 mm)

#### Weight

93 lbs.  
(42 kg)



[www.arcmachines.com](http://www.arcmachines.com)

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# MODEL 94

# ID SPIRAL CLADDING WELD HEAD

## STANDARD FEATURES

- In-place ID cladding of nozzles.
- Servo-controlled AVC.
- Servo-controlled rotation and axial travel.
- Axial position readout.
- Stainless steel rack-and-gear drive for consistent travel speeds in all positions (no friction drives).
- Manual travel clutch to allow rapid insertion and extraction of torch.
- Pulsed current welding, and synchronized pulsed-wire feed.
- Unlimited torch rotation (no cable wrapping).
- Continuous spiral cladding capability (depending on application).
- Pre-set function for H.F. starts.
- Servo-controlled wire feed.

## OPTIONAL HARDWARE

- Large selection of water-cooled standard or special torches for cladding or groove welding applications.
- Axial travel carriages with other than 24" (60 cm) travel.
- Custom torch sizes available.



## COMPATIBLE POWER SUPPLY



Model 415 programmable multi-function Power Supply.



*Leaders & Innovators in*

*Automated Orbital Welding*

For further information please visit our website

or contact us at 1-818-896-9556



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