

# Orbital Welding Helps in the Construction of a Water Treatment Plant

## Application:

- Gas & air pipes

## Material:

- Stainless steel

## Welding Equipment:

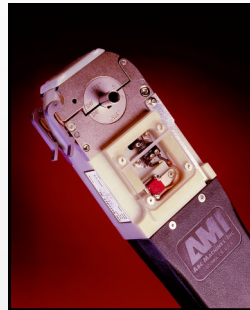
### *Weld Heads:*

- Model 9-750
- Model 15
- Model 79

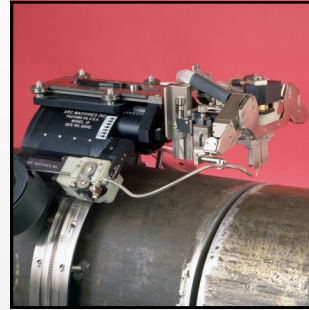
## Benefits:

- ✓ Increased Productivity by 300%
- ✓ Zero Rejects

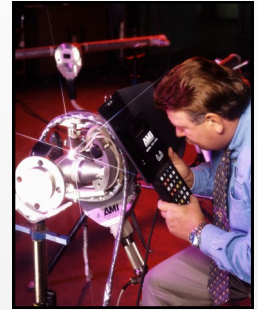
For further information, call  
AMI at 1-818-896-9556 or e-mail  
[sales@arcmachines.com](mailto:sales@arcmachines.com)



Model 9-750



Model 15



Model 79

In order to meet the deadline to complete the Scottsdale Water Campus project, (the largest US facility for treatment of raw sewage to potable quality water) University Mechanical, a piping contractor specializing in the installation of process piping, decided to use automated orbital welding equipment from Arc Machines, Inc.

Since the laboratory gas distribution system, which involve a complicated twisting network of piping with a high potential for leaking, was mostly concealed in the ceilings, the contractor chose orbital welding to save on reworks and maintenance. Using traditional GTAW would have been labor intense and time consuming and would not have met the completion deadline.

UM purchased Arc Machines, Inc.'s **Model 9-750**, **Model 15**, and **Model 79** orbital weld heads to accommodate the range of pipe diameters.

The use of automated orbital welding equipment from AMI increased pipe welding productivity by 300% on the project. When welding was completed, testing showed no single leak in the gas network. UM was impressed with a completely seamless system with zero rejects. As a result, they planned to begin using AMI's orbital welding equipment on a regular basis.

To read the full story, visit [www.arcmachines.com](http://www.arcmachines.com)



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**ARC MACHINES, INC.®**

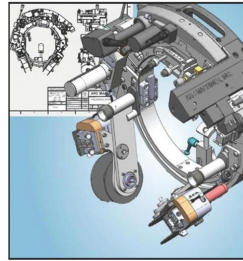
# LEADERS & INNOVATORS in Automated Orbital Welding



Cutting Edge Narrow-Groove  
Pipe Welding Technology



Advanced Fusion Welding  
and Process Control



High-Tech Designs &  
Engineering Services



Turnkey Integrated Systems

## Advanced Products, Systems & Solutions



With over 3000 customer relationships in over 50 countries, Arc Machines, Inc. has set the standard for Automated Orbital Welding Equipment for over 30 years, combining Quality and Durability with Innovative Engineering and Design. Around the world, leading manufacturers and contractors rely on AMI for their expertise in automated orbital welding and to develop customized solutions for new welding challenges.

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

# AMI

**ARC MACHINES, INC.**

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Pacoima, CA 91331 U.S.A.  
(818) 896-9556  
fax (818) 890-3724  
sales@arcmachines.com

### M9 Series Weld Heads

### QUICK SPECS

#### OD Range

0.093" to 7.500"  
(2.362 mm - 190,500 mm)

#### Travel Motor

D.C., P.M., D.C. Tachometer

#### Head Weight

11 lbs. - 35 lbs.  
(4,9 kg - 15,9 kg)

#### Electrode Size

0.040", 1/16", 3/32"  
(1 mm, 1,6 mm, 2,3 mm)

#### Rotor RPM

0.1 - 20

#### Cable Length

25 ft. (7,6 m) when connected  
to adapter cable



Removable tube clamps



Pre-plumbed for water-cooling



Compatible with all AMI power supplies

### M15 Weld Head

#### AVC Stroke

1.75" (44,45 mm)

#### Torch Oscillation Stroke

2" (50,8 mm)

#### Wire Feed Speed

5 to 200 IPM



#### Radial Clearance Range

3.69" (93,73 mm) (Minimum)  
depends on pipe diameter,  
torch type and configuration

#### Axial Clearance Range

11.5" (292,1 mm) (minimum)  
depends on torch type and options



Single/dual wire feeder options are available



Several torch types are available



Compatible with **AMI Model 415**  
and **Model 227** Power Supplies

### M79 Series Weld Heads

#### OD Range

0.750" - 6.625"  
(19 mm - 170 mm)

#### Water Cooled Torch

200 A continuous  
Duty Cycle

#### Head Weight

11 lbs. - 22 lbs.  
(5 kg - 10 kg)

#### Filler Wire Size

0.030" - 0.035"  
(0,762 mm - 0,889 mm)

#### Rotor RPM

0.1 - 2.0

#### Wire Spool Size

2 lbs., 4" (0,9 kg, 101,6 mm)

#### Wire Feed Speed

5 - 100 IPM



Compatible with **AMI Model 415** and **Model 227** Power Supplies

