

Orbital Welding of Underground Pipelines

Application:

- Water pipe

Material:

- 304L Stainless steel schedule 10 pipe

Welding Equipment:

Power Supply:

- **Model 227**

Weld Head:

- **Model 15**

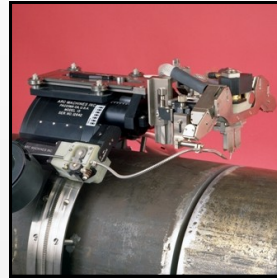
Benefits:

- ✓ Increased productivity
- ✓ Improved quality
- ✓ Reduced cost
- ✓ Trouble free quality in dusty, desert conditions

For further information, call
AMI at 1-818-896-9556 or e-mail
sales@arcmachines.com



Model 227



Model 15



Engineering and construction contractor, KS Industries LP was awarded one of the nation's first fusion-welded underground pipeline projects by a bottling company in a tough desert environment. The bottling company decided to build a new plant near the water source, connecting them by an 8-in. diameter 304L stainless steel Schedule 10 pipe.

KS Industries, with flexibility in mind, selected Arc Machines' **Model 227** computerized, inverter-type GTAW power supply with up to 225 amps output and an internal memory that holds up to 100 multilevel, multifunction welding schedules. They chose the **Model 15** large-diameter pipe weld head that handles all standard piping sizes from 2" up and has zero-backlash gear drive for positive travel speed, consistent in all positions. Arc Machines provided training to the technicians, who were able to meet the specifications within two days without difficulties.

After start-up, only one technician was required which assisted profitability on the project. Despite the difficult and dusty conditions, the machines ran throughout the project without a single breakdown. The quality of the welds was excellent. AMI's welding equipment made it possible to meet the client's quality and delivery date requirements.

To read the full story, visit www.arcmachines.com



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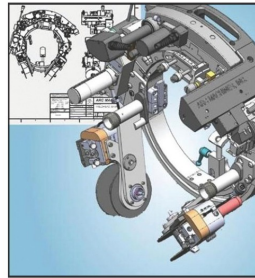
LEADERS & INNOVATORS in Automated Orbital Welding



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

AMI

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M227 Power Supply

QUICK STATS

Input Power

100 to 240 VAC,
single-phase
50/60 Hz

Weld Current

3 to 100 A DC @ 100/120 VAC
input, 3 to 225 A DC @
200/240 VAC input, 100% Duty Cycle

Memory Capacity

100 weld schedules maximum,
100 levels per schedule maximum,
100 different passes per level

I/O Device

M-227EMM

Water Cooler

Optional

Dimensions

15" x 23" x 20"
(381 mm x 584 mm x 508 mm)

Weight

88 lbs.
(40 kg)



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 or dual wire feeder options are available
- Several torch types are available

