

Orbital Welding Passes Inspection Tests in a Powdered Milk Plant

Application:

- Tube-to-Flange welds in food industry

Material:

- 6" diameter & 4mm thickness 316L stainless steel pipe

Welding Equipment:

Power Supply:

- Model 227

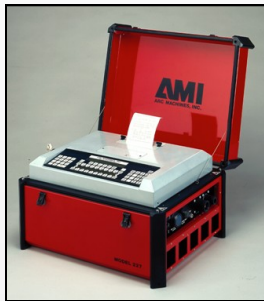
Weld Heads:

- Model 9-4500
- Model 95-6625

Benefits:

- ✓ Smooth welds, clean inside surfaces
- ✓ High duty cycle
- ✓ 1,500 orbital welds in 1 week with 2 operators

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



Model 227



Model 9 series



Model 95-6625

As part of the comprehensive plan to design and install a state-of-the-art powdered milk plant facility, the engineers at Lincomax, specified orbital welding for joining tubing, to maintain the integrity of the product. This is because orbital welds are generally smoother than comparable manual welds on the inside of tube which prevents the growth of micro-organisms. Orbital welding is a major contributor to the development of modern CIP (Clean-in-Place) technology.

At the Conaprole plant in Uruguay, operators used the gas-tungsten-arc welding (GTAW) process with orbital welding equipment from Arc Machines, Inc. A **Model 227** microprocessor-based power supply and **Model 9-4500** and **Model 95-6625** weld heads with filler wire capabilities were selected to do the welds. An Arc Machines' water cooling unit was mounted under the power supply for higher duty cycle. After one week of training, provided by Arc Machines, Inc., two welding operators completed approximately 1,500 orbital welds.

Quality assurance personnel accepted the orbital welding procedures and documentation of weld results as a key element in approving the plant for validation. This protocol and the requirements for documentation represent a new level of quality control by Conaprole and set a new standard for the dairy industry in Latin America.

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



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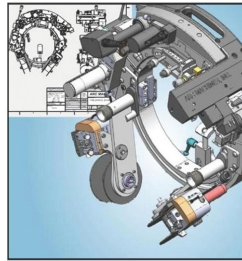
LEADERS & INNOVATORS in Automated Orbital Welding



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 SPECS

Input Power

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

Weld Current

3 - 100 A DC @ 100/120 VAC
input, 3 - 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)



M9 Series Weld Heads

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 clamp plates



Pre-plumbed for water-cooling



Compatible with all AMI Power Supplies

M95 Series Weld Heads

OD Range

0.625" - 6.625"
(16 mm - 170 mm)

Wall Thickness

up to 0.3" or 0.44"
(7,62 mm or 11,17 mm)

Torch

0.05 - 10

Rotor RPM

Water cooled, 200 A
continuous Duty Cycle

Head Weight

5 lbs. - 16 lbs.
(2 kg - 7 kg)



Compatible with AMI M415, M227, M307 and M207 (fusion-only using optional adapter) Power Supplies.