

Orbital Welding Equipment Assures Sanitary Piping for Draft Beer

Application:

- Cold filtered draft beer

Material:

- Stainless steel

Welding Equipment:

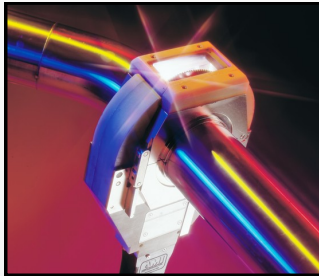
Weld Head:

- Model 9 series

Benefits:

- ✓ Consistent, high-quality weld-after-weld
- ✓ Superior productivity to manual welding
- ✓ Fusion metal welding with a smoother inner head to eliminate bacteria
- ✓ Reduced fabrication time by 50 percent

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



Model 9 Series



Model 9



Pilchuck Mechanical, a general contractor in Seattle for G. Heileman's Rainier Brewery, applied orbital arc welding to install 6,000 linear feet of stainless-steel piping for cold-filtered Rainier Draft and Rainier Draft Light beer.

Unlike pasteurized beers, packaged draft beer is cold-filtered to eliminate spoilage organisms, retain fresh taste and extend unrefrigerated shelf life. Piping systems for handling draft beer must be exceptionally smooth and free of crevices that can harbor spoilage bacteria. Orbital welding does this by fusing metal without adding filler material to the weld, creating a smooth inner bead.

The welders used orbital weld heads and portable power supplies from Arc Machines, Inc. (AMI) to weld tubes ranging from 1/2-inch to 4 inches diameter, and from 0.035" to 0.085" in wall thickness.

The portable power supply provides precise control of welding variables such as current, travel speed, pulsation and time, which are programmed into a control panel on the machine. These parameters are accurate to within 1 percent of programmed values to assure consistent and repeatable welds.

AMI weld heads were used to weld tube, pipe and fittings, sizes from 1 1/2" to 4 1/2". A typical 2" OD weld takes about 1 1/2 minutes of arc time.

More than 90% of the several hundred welds were accomplished with orbital equipment. The project was completed without disrupting the brewery's production schedule. Pilchuck estimated that orbital welding reduced man-hours by 15-20% as compared to manual welding and reduced fabrication time by 50%.

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



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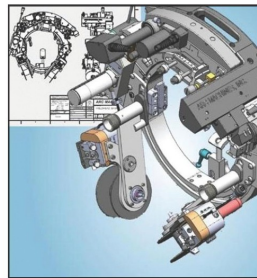
LEADERS & INNOVATORS in Automated Orbital Welding



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

ARC MACHINES, INC.®

Arc Machines, Inc.
10500 Orbital Way
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
(extensions available)



Removable tube clamps



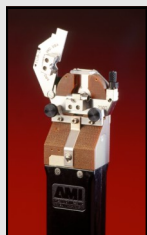
Pre-plumbed for water-cooling



Compatible with all AMI Power Supplies



M9-250



M9-500C



M9-750



M9-1500



M9CT-1500, M9CT-750, M9-500



M9E Series