

# Model 15

LARGE-DIAMETER PIPE WELD HEAD  
FROM 3 IN (76MM) TO UNLIMITED SIZES



## THE WIDEST RANGE OF ORBITAL WELDING EQUIPMENT IN THE WORLD

The Model 15 is a rugged, precision weld head with low radial and axial clearance for GTAW welding of all pipe sizes from 3 inch (76 mm) OD pipe up to an unlimited size, including flat plate. It is primarily designed for field use where exceptional weld quality and consistent results are required.

The Model 15 features rotation, wire feed, automatic voltage control, cross-seam steering and torch oscillation. It is available in many standard configurations, and can be retro-fitted or customized with numerous application-specific accessories to accommodate almost every need. The Model 15 is just one element of an automated pipe welding system. Combine with a torch assembly, precision guide rings, AMI power supply, and other options to configure a complete system suitable for your specific welding application.

## INDUSTRY

- Nuclear
- Power Generation
- Shipyards
- Offshore
- Oil and Gas



MODEL 15 "A" TORCH



MODEL 15 "N" TORCH



MODEL 15 "C" TORCH



MODEL 15 "P" TORCH

## STANDARD TORCH FEATURES

- Cross-seam torch tilt (in/out)
- Electrode-to-wire nozzle height adjustment
- Wire nozzle cross-seam adjustment
- Lead/lag adjustment
- Wire nozzle entry angle adjustment
- Wide variety of gas cups and gas lenses
- Spring-loaded mount to prevent accidental breakage of torch parts

Visit [arcmachines.com](http://arcmachines.com) for more information.

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AN ESAB® BRAND

QUICK SPECS	
AVC Stroke	1.75" (44 mm)
Torch Oscillation Stroke	1" (25,4 mm) maximum
Wire Feed Speed	5 – 200 IPM
Travel Speeds	0.1 – 20 RPM
Tungsten Size	3/32", 1/8" or 5/32" (2,3 mm, 3,2 mm or 4 mm Ø)
Filler Wire	0.020" – 0.045" (0,5 mm or 1,1 mm Ø)
Wire Spool	2 lbs. or 4" Ø standard spool (1 kg or 100 mm Ø spool)
Torch Cross-Seam Steering Range	2.00" (50 mm)
Weight with "A" Torch	18 lbs. (less cables) (8 kg)
OD Range	3" – flat (76,2 mm – flat)
ID Range	18" or larger (457 mm to larger) (adapter required)
Torch	Water-cooled, 300 A DC 100% Duty Cycle

\* Single or dual wire feeder options

\* Special options are available

\* Compatible Power Supplies: M317 and M415

BENEFITS	Single-Wire Entry Model 15 "A" torch	Dual-Wire Entry Model 15 "C" torch	Remote Viewing Model 15 "P" torch	Remote Viewing Model 15 "N" torch
Excellent visibility of filler wire position	•	•	•	•
Accessories for up to 5.0" wall	•	•	•	•
Wire size range from 0.020" to 0.045"	•	•	•	•
Water-cooled, 300 A torch	•	•	•	•
Type HW 20, 17 or 27 gas lenses and gas cups	•	•	•	•
Addition of filler wire while welding in either direction		•	•	•
Remote-controlled wire feed nozzle manipulators			•	•
Video system for remote operation and observation of the weld zone from leading and trailing directions			•	•

OPTIONAL CONFIGURATIONS		
AVC Tilt	ID Welding Configuration	AVC / OSC Interchange



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