Universal Welder

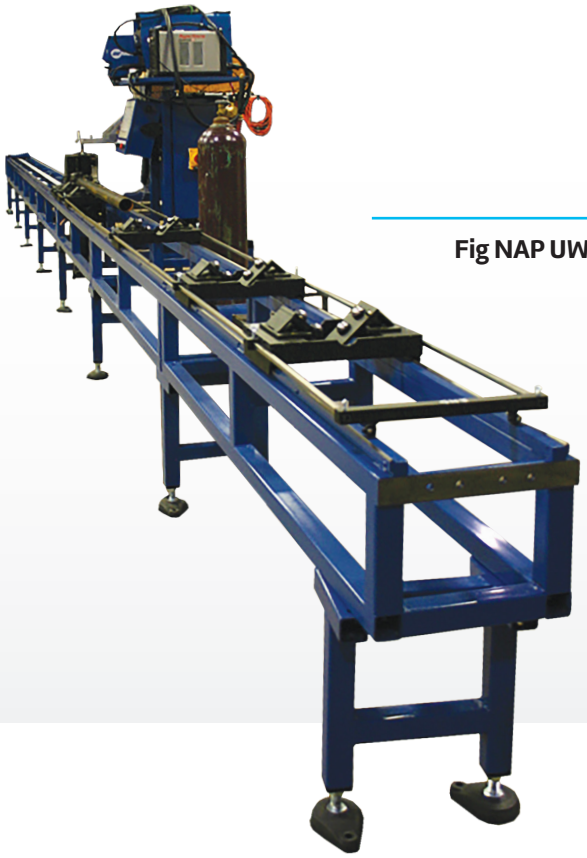

Fig NAP UW

Welding system designed for connecting ¾" – 2 ¾" outlets and 1 ½" – 4" grooved outlets onto 1 ½" – 8" pipe.

The NAP Universal Welder system will weld ½" to 2 ½" fittings on 1 ¼" to 8" pipe. It can be programmed to weld NAP fittings, grooved outlets and two other customer chosen brands. Outlets may be welded within 6 ½" from the start of the pipe and 3" from the end.

The average cycle time to cut a hole, remove coupon, place an outlet on the pipe, and weld is from 32 seconds for ½" outlets to 55 seconds for a 2 ½" outlet. Taking into account the time required to move and position the pipe, customers can expect the NAP Universal Welder to perform a range of 300 welds per shift for mixed size outlets at various locations to 450 welds per shift for small outlets at repetitive locations. Output is dependent on the operator and the customer's pipe handling system.

For more information about the NAP Universal Welder, please contact your local ASC Engineered Solutions sales representative.

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Touch Panel

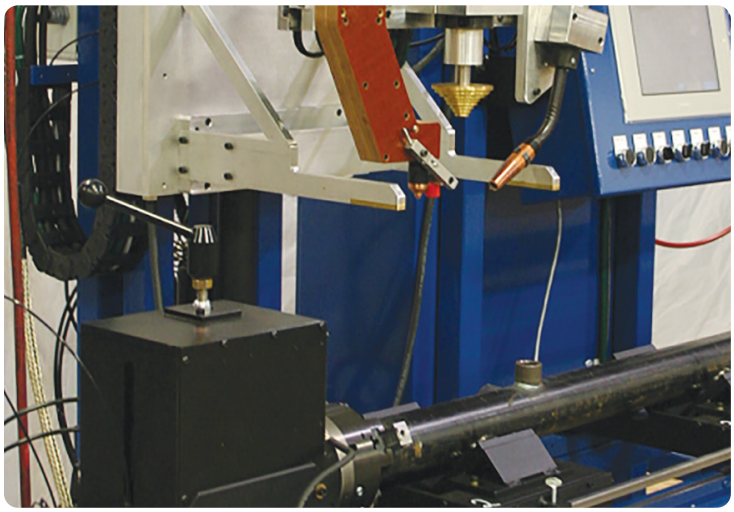
The touch screen control is used to input the information for welding. The operator sets the distance to the outlet in feet and inches or metric; the outlet size and type, and position (up, down, left or right). Up to ten locations can be programmed. The control can also be programmed by an optional barcode reader. Weld rotation speed can also be adjusted on the screen.

The Universal Welder touch panel allows customers the flexibility of using custom screens for different layouts, as well as the ability to use barcodes.

Features and Benefits

- Welds ½" – 2 ½" outlets and 1 ¼" – 4" grooved outlets onto 1 ¼" – 8" pipe
- Programmable system to weld Merit outlets and can be programmed for other outlets
- Touchscreen allows for the flexibility of custom screens and the use of bar codes to input data
- Pipe automatically moved to each outlet position on the pipe based on entered data
- Outlets may be welded within 6 ½" of the start of the pipe and 3" from the end
- Outlets may be welded in the up, down, right or left positions
- Cycle time to cut hole and weld outlet onto pipe is approximately 32 seconds for ½" outlets and 55 seconds for 2 ½" outlets *

  **Welding times depend on configurations and operator*



Operation

The pipe is put on the welder carriage and clamped in the air chuck. The outlet position is selected on the screen and the move command moves the pipe to the weld location.

When you push the start cycle button, the machine comes down to the pipe and the plasma torch moves in to the hole size. The start button is pressed and the machine cuts the hole and the plasma torch returns home and removes the coupon.

The operator then centers the outlet on the pipe with the centering rod and a push of the start button starts the welding. When the weld is finished, the machine returns to the up position and is ready to be moved to the next position, and the process is repeated.