

HAWS



HAWS BENEFITS

Pipe Diameter Capabilities	4"-60" + 30' Reach
Robotic Welding	✓
Infinitely Programmable Motion & Weld Parameters	✓
Portable within Shop	✓
Fits in a Standard Welding Station	✓
Works with Existing Positioners	✓
Repeatable Quality & Productivity	✓
Remote Weld Monitoring & Data Collection	✓
Programmable Torch Angle	✓
Track Movement Capability with Greater Flexibility	✓
Off-Site Remote Troubleshooting and Diagnostics	✓

HYBRID AUTOMATED WEDING SYSTEM

Robotic arc welding for process piping and pressure vessels coupled with the flexibility of human intervention during the welding process.

Every percent gain in efficiency has the potential to save millions of dollars in the overall cost of projects.

Companies with shops that spend a substantial portion of their work hours on pipe spool and vessel fabrication finally have the potential for improving productivity with the benefit of the Hybrid Automated Welding System.

- ◆ Increase efficiency
- ◆ Create quality welds consistently
- ◆ Improve delivery schedules
- ◆ Help overcome hiring challenges
- ◆ Save time and money
- ◆ Grow your business



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Robotic Welding for the Process Piping and Pressure Vessel Industry

AUTOMATION WITH FLEXIBILITY

Automation has long been an alternative to manual welding; however most robotic and fixed automation systems work for repeatable applications rather than general pipe fabrication.

THE HYBRID IN HAWS

With the operator pendant in hand, the welder can interact with the robot at any time during the welding cycle ensuring real time variable control.

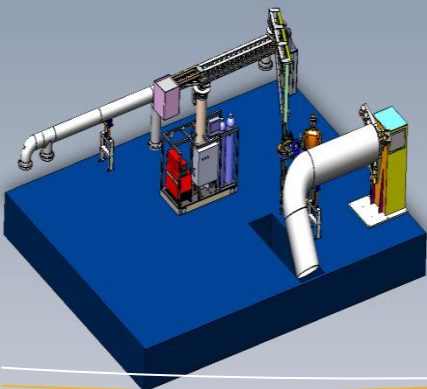
Manually welding pipe requires highly skilled welders as well as high quality standards. No two jobs are the same; therefore automation must overcome this challenge. There is a near infinite variation of weld joint definition such as pipe diameter, pipe surface condition, section length and more. Pipe fabricators can effectively deal with all of these variables using Roboweld's HAWS.

PROGRAMMABLE AND INTERACTIVE TO SUIT YOUR NEEDS

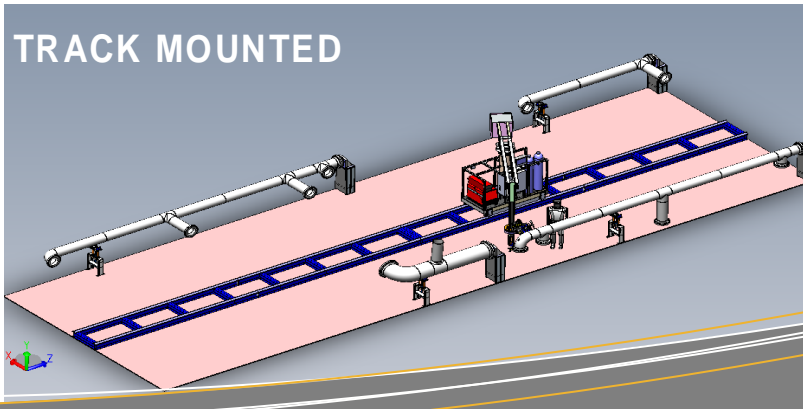
ROBOWELD HAWS

Fully programmable (root to cap) allowing real-time operator intervention for part deviations. Enjoy infinitely programmable weld parameter and torch manipulation for a given weld joint, welding wherever a man can 1G weld. Move HAWS to the weld joint, call up the right program, grab your helmet and the pendant and you are ready to start welding. This takes about a minute.

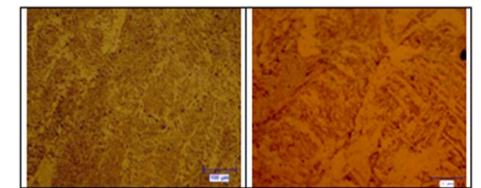
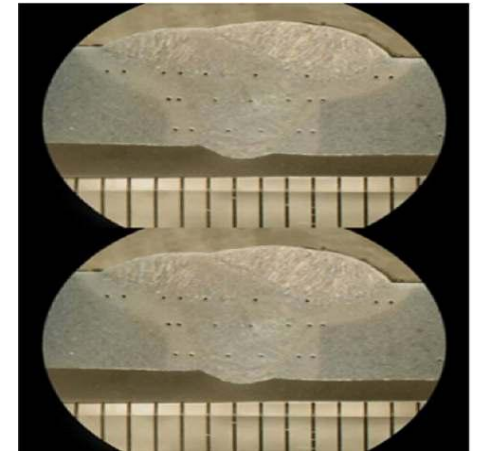
STATIONARY



TRACK MOUNTED

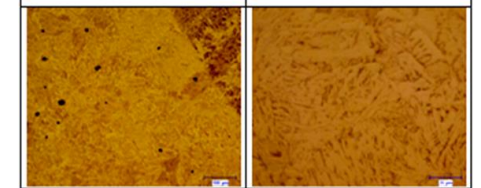


HAWS WELDED PIPE & DESTRUCTIVE TESTING



Weld X100

Weld X500



HAZ X100

HAZ X500



THE FUTURE IS HERE, EMBRACE IT!

Increase productivity and reduce costs with the Hybrid Automated Welding System.