



NOVARC
TECHNOLOGIES

The Spool Welding Robot (SWR™)

Cobot designed **specifically** for pipe and pressure vessel welding.

Up to

12x

increase in pipe welding productivity.

Less than

1%

repair rates.



Scan QR code to unlock the future of pipe welding.

For Business Owners

Win more projects

and get ahead in an increasingly competitive market.

Boost profit margins

on existing projects.

Shorten project timeframes

while increasing shop throughput.

See quick returns

The SWR™ typically pays off in 6-18 months.



The first project we did (with the SWR™) we cut off 4.5 man weeks of shop welding, so **we saved around \$114,000 on that project, and it made us competitive and added value to the end user.**

- Western Allied Mechanical.



Western Allied
MECHANICAL

For Operations Managers



Achieve 3-5x
productivity on carbon steel pipes.

Achieve up to 12X
productivity on stainless steel pipes.

Reduce dependency
on scarce, highly-skilled pipe welders.

Maximize arc-on time
with our non-stop root-to-cap process.

“

A 16" schedule 10 stainless steel weld would take us around 2.5 hours to get a purge set up and then weld out. **With the SWR™, we now can do a 16" schedule 10 weld in 12- minutes that will pass RT.**

- W.W GAY Mechanical Contractors.



For Quality Managers

Lower the repair rates

to less than 1%, beating the industry average (3-5%).

Meet the requirements

of ASME Sec VIII, IX, B31.1, and B31.3.

Meet key quality test requirements

such as Radiography test, Charpy Impact test down to -50 F (-45.5 C), Hardness test, Bend test, Tensile test, and more.

Provide accountability

and traceability through NovSync™ and NovData™.

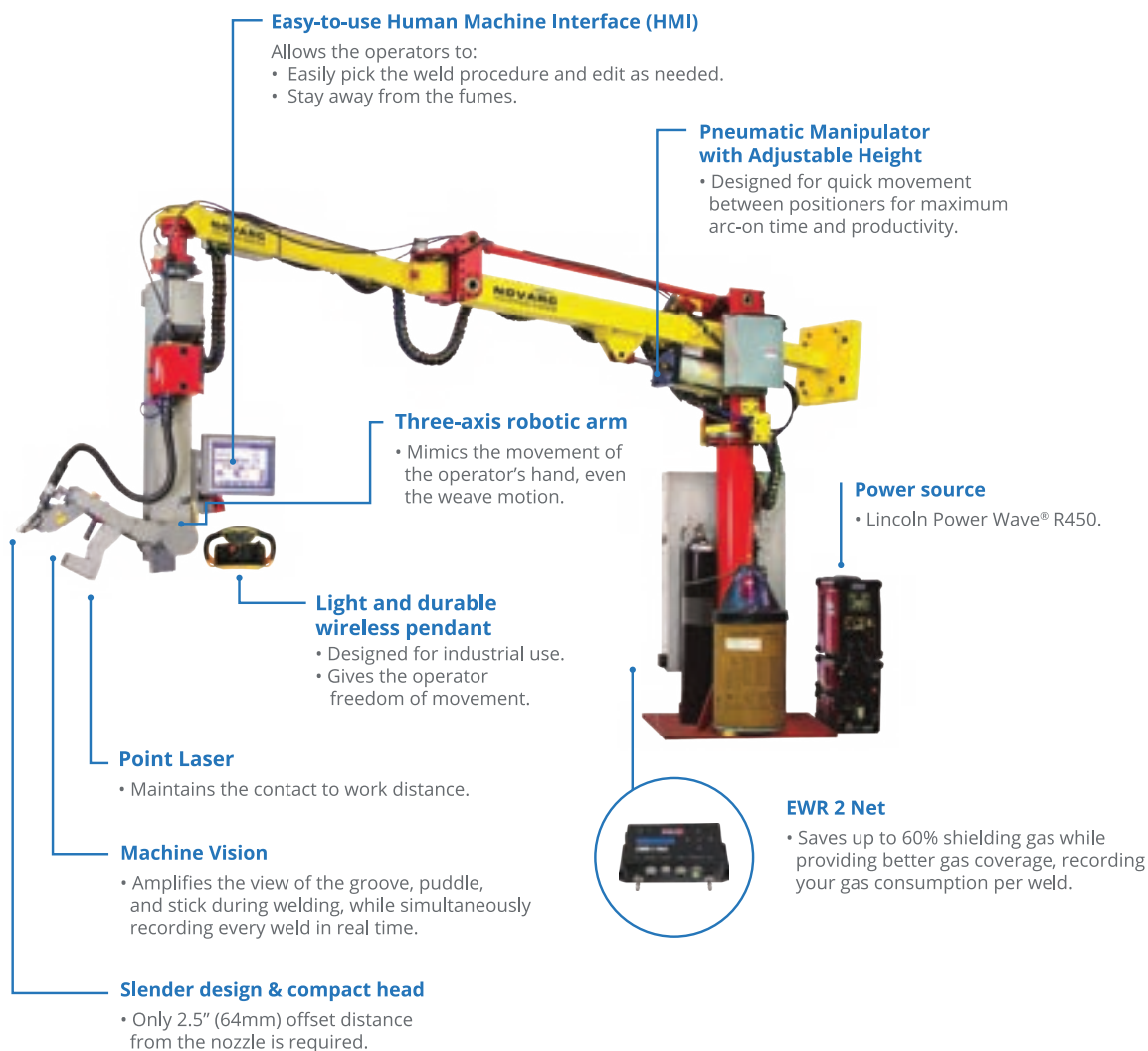


On the current job with the robot,
**we are doing x-rays and we
haven't had any repairs.**

- Harder Mechanical Contractors.



SWR™ At a Glance



Torch options



Single torch

The standard torch option with the SWR™.



Dual torch

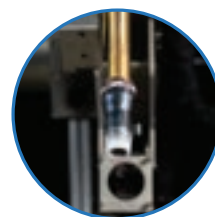
Gives you flexibility to meet specific customer requirements such as:

- Flux-cored and metal-cored for fill and cap passes.
- Carbon steel and stainless steel welds.



SWR-F

Easier and faster slip-on flange welding.



SWR™+HyperFill®

Increases heavy fabrication productivity by increasing weld deposition rates while delivering excellent weld quality.

Applications

Pipe and pressure vessels from 2" - 60" (50mm - 1500mm).

Materials*

Carbon/Low Alloy (P1) and Stainless Steels (P8) alloys.

Weld Processes

GMAW, FCAW, MCAW, and HyperFill®.

Wire Diameter

0.035 - 0.062 in. (0.9-1.66 mm).

Working Diameter

30 ft (9.1 m).

Height

15 ft (4.5m).

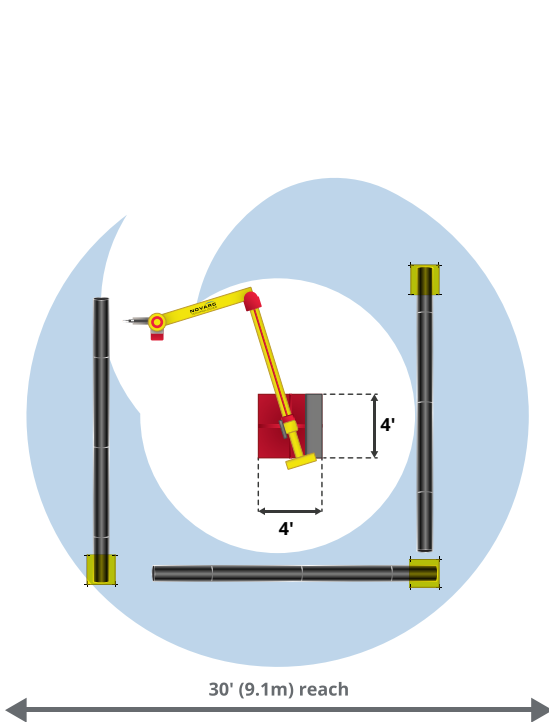
SWR™ Footprint

4'x4' (1.2m x 1.2m).

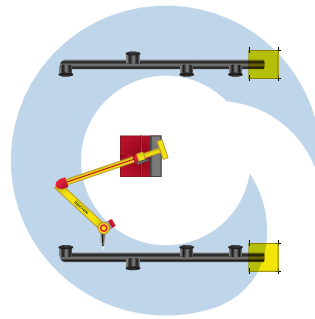
*Contact us for inquiries about other materials.

Sample layouts

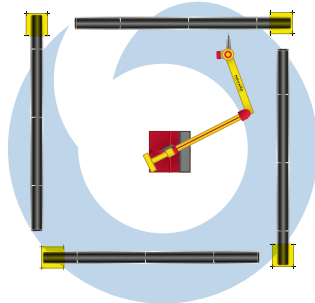
Flexibility to integrate with up to five positioners*
for maximum productivity and arc-on time.



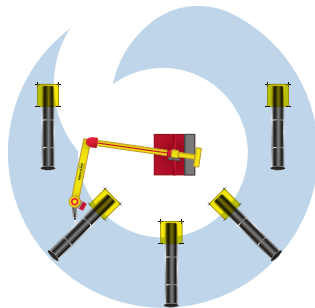
The Spool Welding Robot working
with **three** positioners



The Spool Welding Robot
working with **two** positioners



The Spool Welding Robot
working with **four** positioners



The Spool Welding Robot
working with **five** positioners

* Max 4 for SWR-F model



I could really tell that it was on Novarc's priority
to get us up and running. I've done a lot of
integration products and projects like this, but
**this has been by far the best one because of
their communication and support.**

- Trident Process Systems.



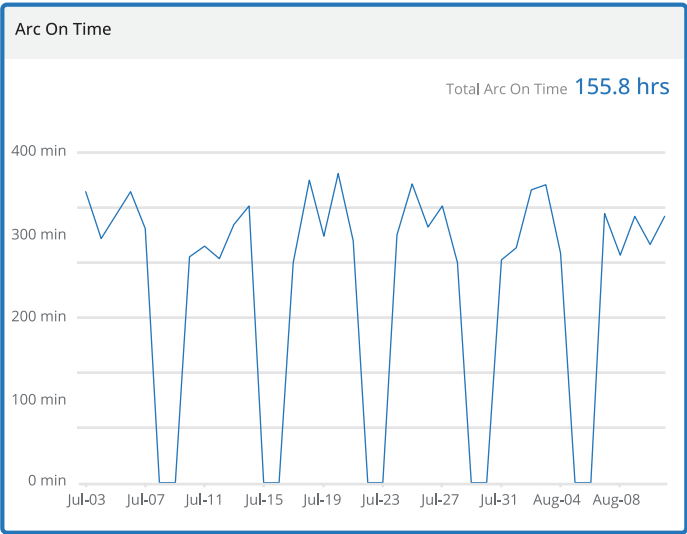
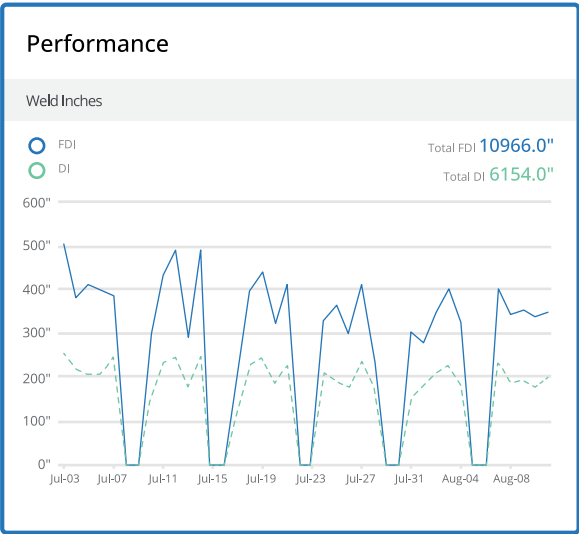
Innovations

Tack Fusion, Root Save, Repeat Pass

Technology to ensure 100% joint penetration without blow through at tack locations and pipe with poor fit-up, and Hi-Lo.

NovEye™ Assist, NovData™, NovSync™

Providing you with all the data and videos you need to seamlessly manage your welding operations, enhance productivity, and minimize disruptions, all with the assurance of dependable support and reliability at every step.



Activity

Weld History

Date	Order	Spool	Start Time	Arc Off Time
2023-08-11	119005	HWR 19	15:15:12	18m 46s
2023-08-11	119006	SWR 18	13:41:50	3m 4s
2023-08-11	119005	HWR 4	13:16:29	20m 18s
2023-08-11	112004	SWR 3	11:59:58	3m 4s
2023-08-11	112423	Spool D2	11:13:07	3m 4s
2023-08-11	293193	HWR 2	08:47:49	0m 0s
2023-08-11	123953	6in SS	16:42:12	14m 4s
2023-08-11	112004	SWR 6	14:15:24	9m 39s
2023-08-11	193142	SWR 6	13:49:20	3m 4s



Currently in four continents and expanding



CERTIFICATION



Complies with applicable European Community Directives including European Directives for Safety of machinery (EN60204-1), electro-magnetic compatibility (EN61000-6) and safety of collaborative robots (ISO 15066-2016).

About Novarc Technologies

Novarc Technologies is a full-stack robotics company specializing in the design and manufacturing of cobots and AI-based machine vision solutions for autonomous welding. Novarc's Spool Welding Robot (SWR™) is the world's first of its kind in pipe welding applications. As a proven pioneer in the field, Novarc's team is dedicated to solving challenging welding automation problems that improve customers' bottom line.

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