



NOVARC

# The Spool Welding Robot (SWR™)

The Most Versatile **Autonomous Pipe Welding Robot** using a GMAW process.

Response time within

**2** business hours

for support tickets\*.

\*With the purchase of NovCare Gold

Up to

**12x**

increase in pipe welding productivity.

Less than

**1%**

repair rates.

\$0 payments for up to

**6** months

at highly competitive rates.



Scan to explore technology that's changing how welding gets done.

# 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 has a payback period of 6-12 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.

## Dedicated Project Manager

to ensure a smooth and successful process,  
from initial purchase to full integration.



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.





## NovEye™ Autonomy

Continuously evolving through AI

Industry First: Zero Operator Intervention, X-Ray Quality Welds. Just set up the Spool Welding Robot (SWR™), hit start, and move to set up another weld.

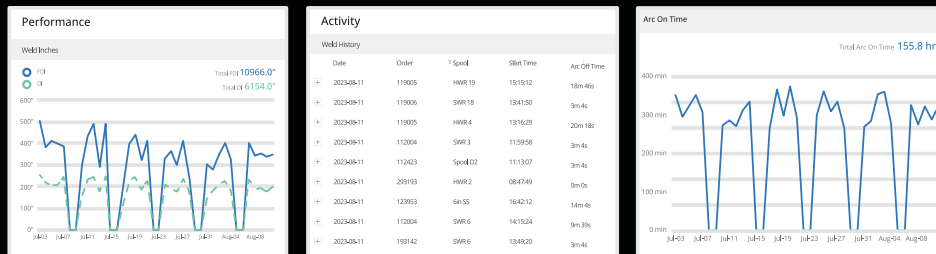


## Tack Fusion, Root Save, Repeat Pass

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.



Production insights

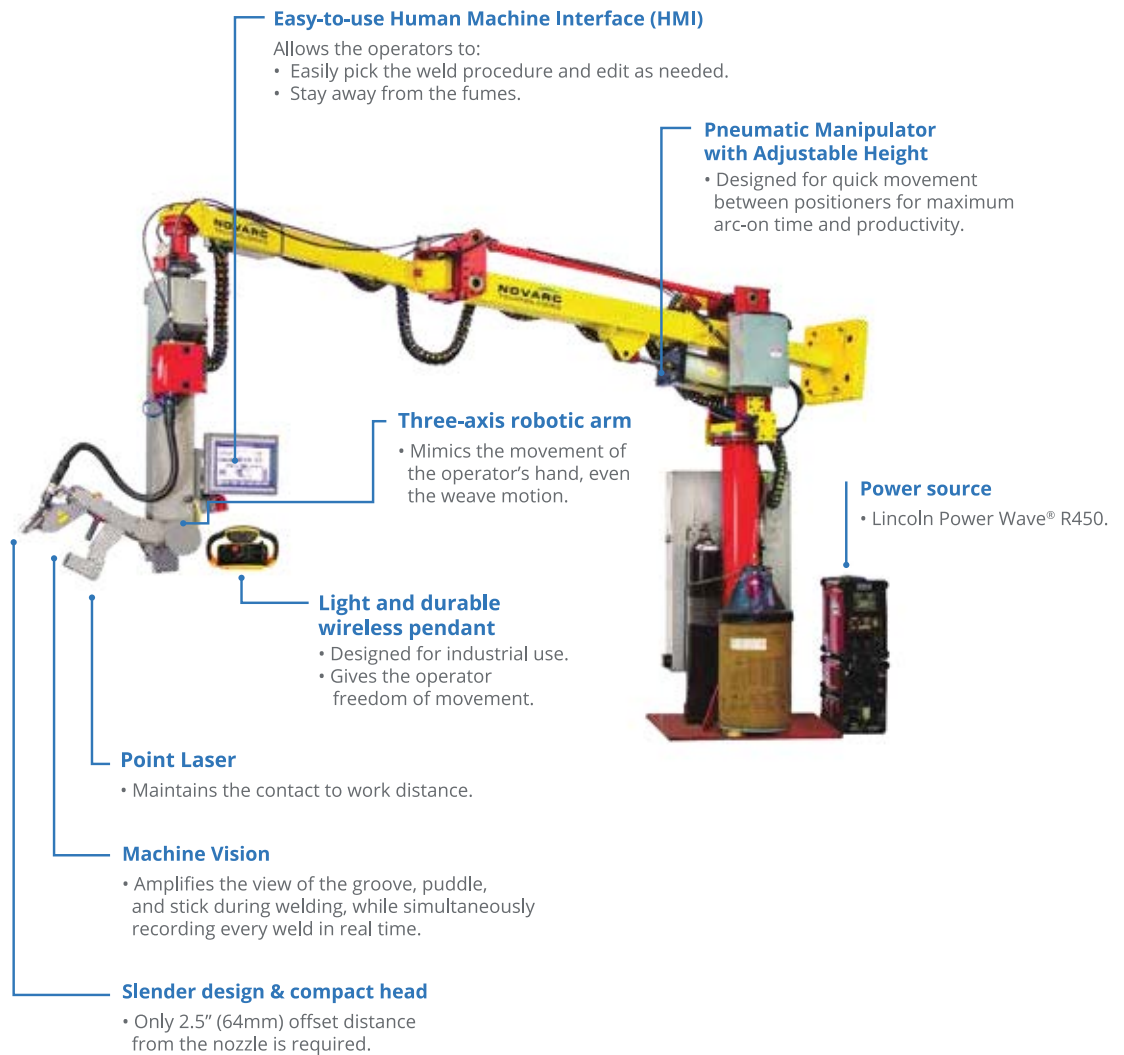


"We knew NovEye Autonomy was a big deal when one of our operators forgot he was welding and walked away from the machine."

-Sam Revel, Director of Industrialized Construction  
at Pitt Meadows Plumbing



# SWR™ At a Glance



## Torch options



### Single torch

The standard torch option with the SWR™.



### Dual torch

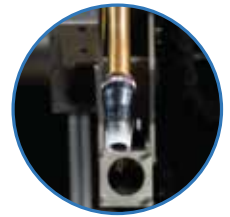
Gives you flexibility to meet specific customer requirements such as:

- 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.

## Technical Specifications

### 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)

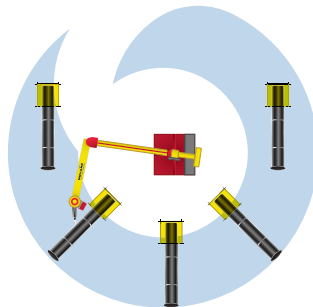
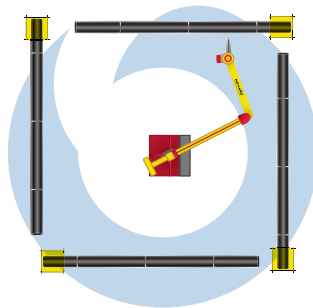
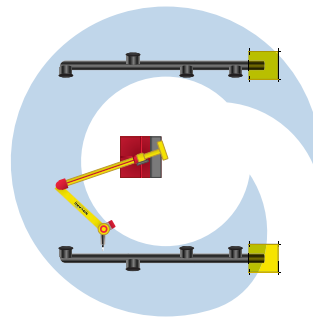
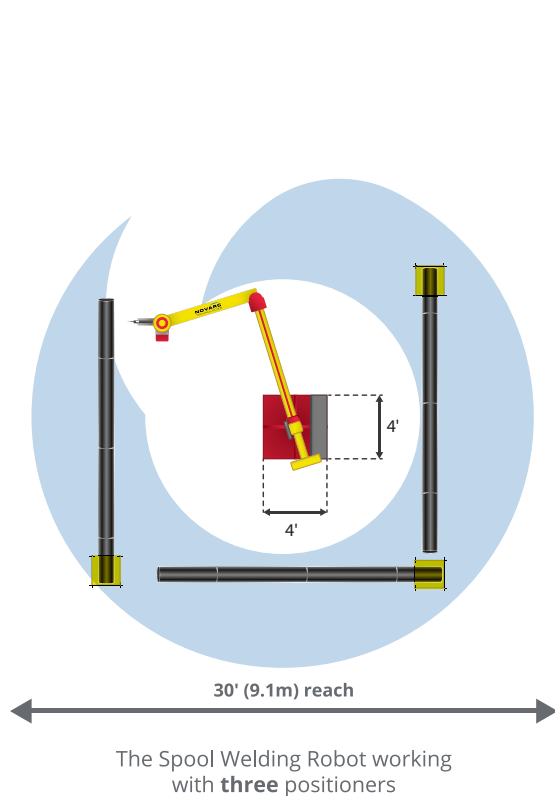
### SWR™ Footprint

4'x4' (1.2m x 1.2m)

\*Contact us for inquiries about other materials.

# Sample Layouts

Flexibility to integrate with multiple positioners for maximum productivity and arc-on time.



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.



# Options

## Traveling Base

Designed to maximize pipe spool welding productivity by enabling the SWR™ to move along a track, allowing for the welding of longer spools with precision, stability, and efficiency.

This innovative system is built for maximum flexibility, ensuring that fabricators can take on larger projects, reduce downtime, and enhance overall throughput.



## BIM Software Integration

The integration allows users to plan their complex construction projects from 3D models, define the properties of pipes and welds in spool assemblies, and track the completion of all fabrication procedures.

## Traveling Base Technical Specifications

### Speed

Up to 350 IPM (150 mm/s)

### Customizable Length

Up to 120 feet (36 meters)

### Control Options

Standard wired pendant control; optional wireless pendant available (for NA units)

### Electrical Compliance

Standard electrical includes UL/CUL-labeled electrical panel

### CE Certification

Available for compliance with European directives

### Positioners

Supports up to four

### Interlocked with SWR™

Prevents motion during welding for enhanced safety

### Shipping Weight

approx 6,600 lbs (2,993 kg) for 40' length

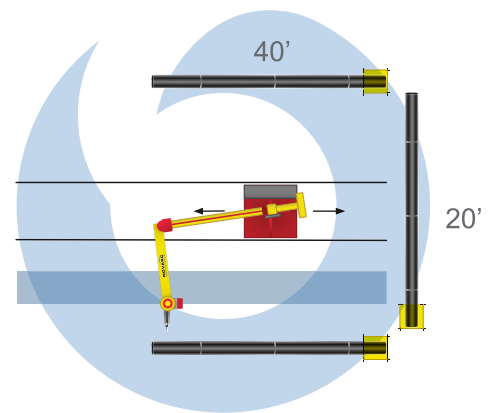
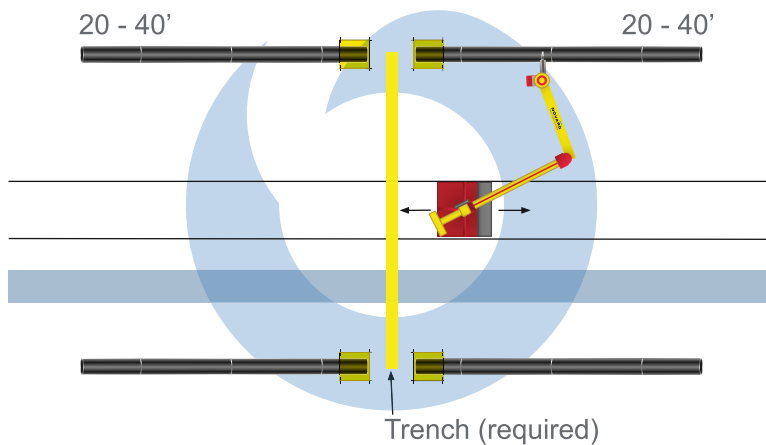
### Base Size

7' x 8' (2.1 x 2.4m)

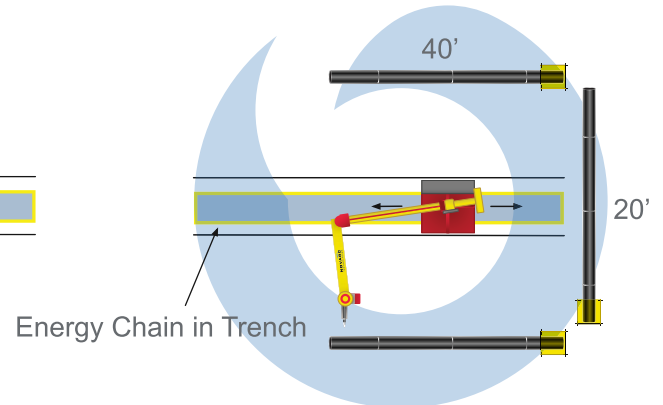
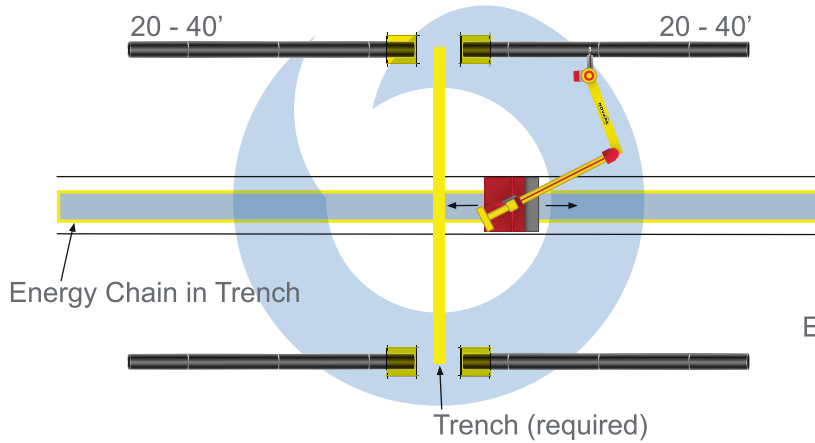


# Traveling Base Configurations

## Standard 3 and 4 Positioner Configurations E-Chain outside (no trench required)



## Standard 3 and 4 Positioner Configurations E-Chain centered (requires lengthwise trench)





**Currently in four continents and expanding**



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## **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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