

NOVARC

# SWR-TIPTIG

The only cobot designed **specifically for pipe and pressure vessel welding** using a GTAW/TIG process.

Response time within

**2** business hours

for support tickets\*.

\*With the purchase of NovCare Gold

Up to

**4** lbs/hour

deposition rates.

Up to

**60%**

cost savings.

\$0 payments for up to

**6** months

below the financing rate with our partners.



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-TIPTIG typically pays off in 6-18 months.

For Operations Managers

## Achieve up to 4 lbs/hr

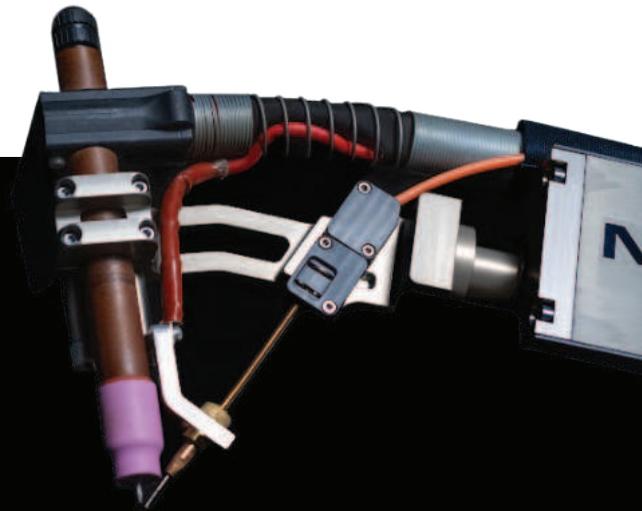
in deposition rates.

## Achieve Up to 60%

cost savings.

## Reduce dependency on scarce

highly-skilled pipe welders.



**Weld a 6" Carbon Steel or Stainless Steel SCH 40 Joint  
using GTAW in under 18 minutes root to cap!\***

\*Arc-on time only, excluding interpass cooling time

# For Quality Managers

## Meet the requirements

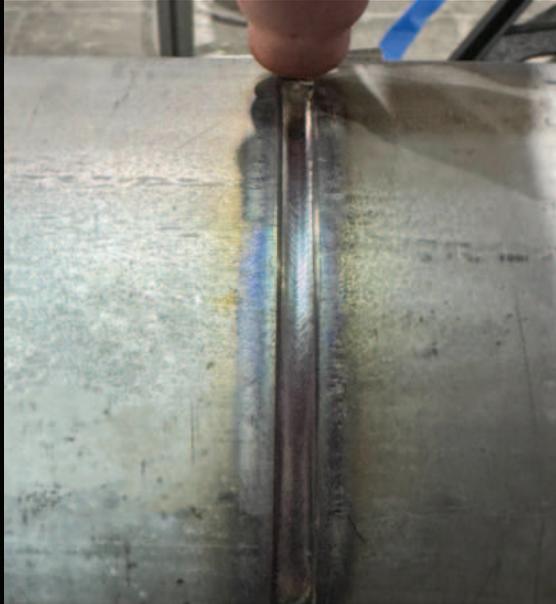
of ASME B31.1, B31.3, Section XI,  
and BPVC Section VIII.

## Meet key quality test requirements

such as X-ray tests, hardness tests,  
and corrosion testing.

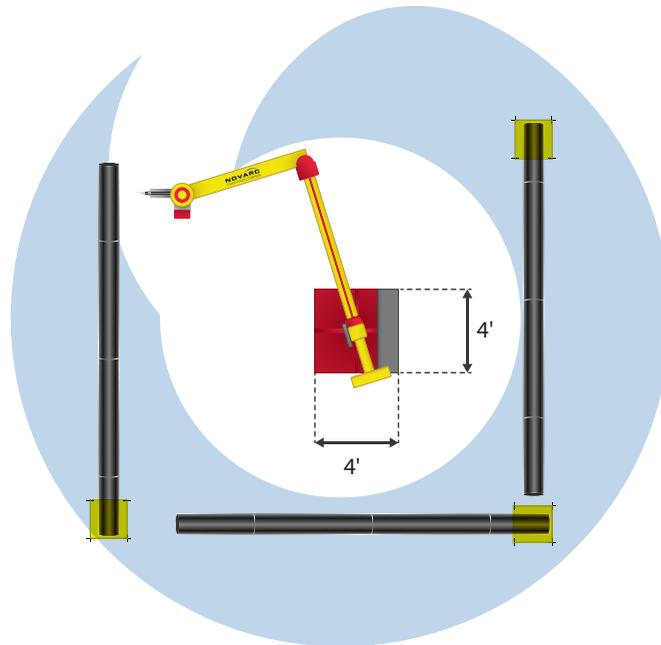
## Provide accountability

and traceability through NovSync™  
and NovData™.



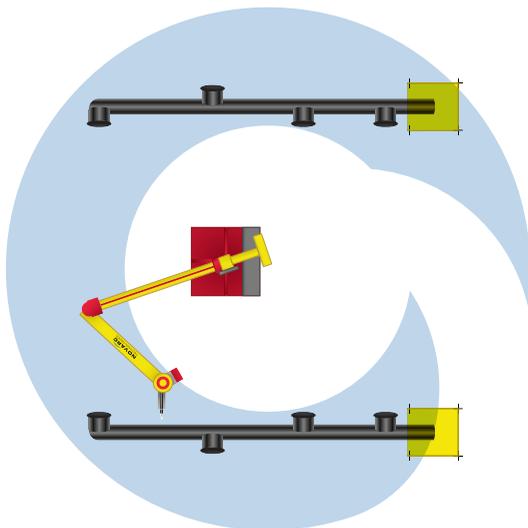
# Sample layouts

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

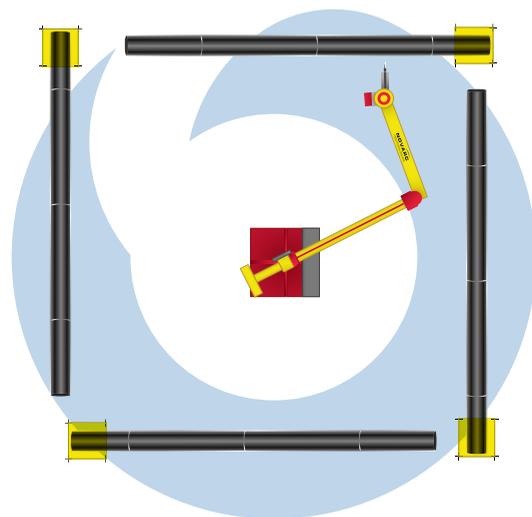


30' (9.1m) reach

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



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



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

# Features

## Compact Footprint

The SWR-TIPTIG boasts the smallest footprint in the industry at just 4' x 4' (1.2m x 1.2m), allowing you to maximize shop space and productivity. It can operate with up to four positioners, giving you a competitive edge.

## Collaborative TIG Welding

Designed for pipe, pressure vessel, and roll welding using TIG, the SWR-TIPTIG enhances both speed and precision. Its advanced TIPTIG system pushes TIG welding to new levels, boosting productivity and setting you apart in the market.

## 300% Faster Welding

Achieve up to 300% faster travel speeds with the SWR-TIPTIG, ensuring quicker project completion with precise TIG welding.



# Features

## Advanced Weld Imaging

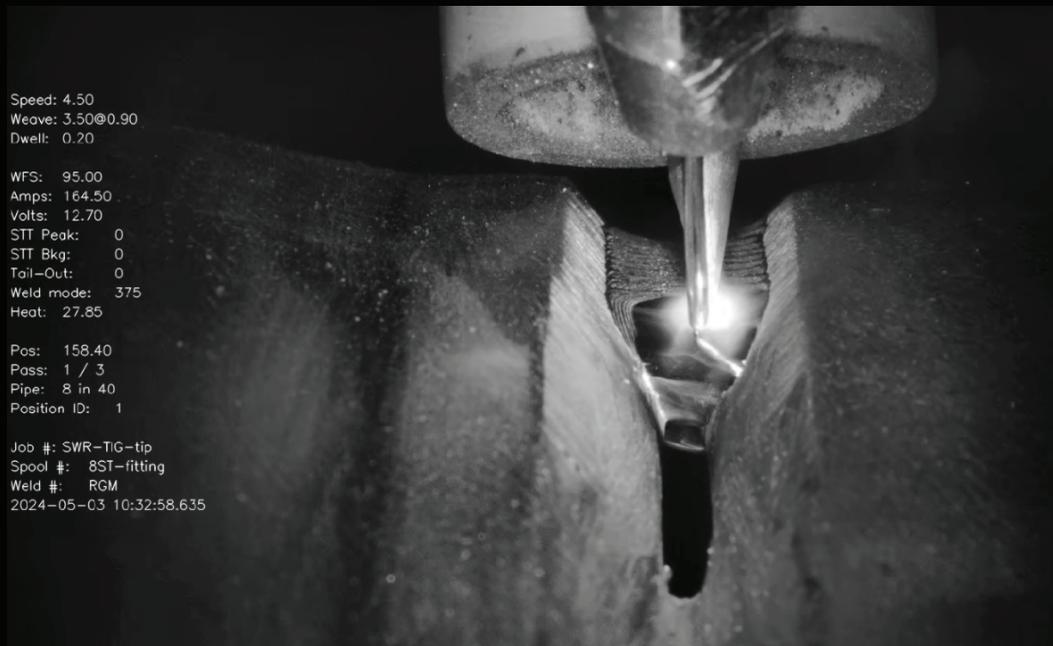
Experience real-time weld monitoring with our cutting-edge imaging system, offering unmatched precision and accuracy in every weld.

## Hot Filler Wire Technology

Our system features hot filler wire with 80 amps, significantly improving deposition rates and travel speeds for optimized welding.

## Patented TIP TIG Feeding system

The patented TIP TIG feeding system uses a unique backward/forward motion to break the surface tension, improving weld quality and solidification.



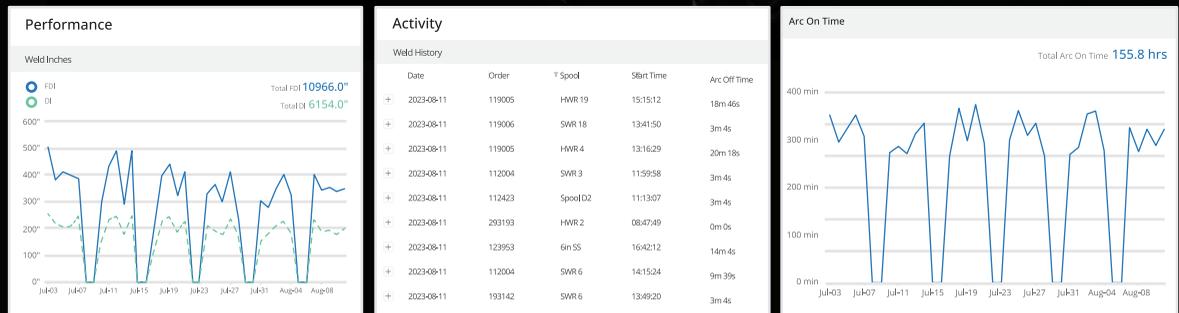
# Innovations

## 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.



Production insights

### Applications

Pipe and pressure vessels from 2" - 16" (5cm - 40cm)\*

### Materials

- Carbon and low alloy steels
- Stainless and nickel alloys\*

\*Contact us for other sizes and materials

### WIRE DIAMETER

- 0.035 in. (0.9 mm)

### REACH

- 15 ft (4.5m)

### SWR FOOTPRINT

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

### POWER REQUIREMENTS

#### SWR Requirements

- North America - 3-Phase, 208Y/120V, 60Hz, 23A, 5 Wires (V, U, W, Neutral and Ground)
- EU and AUS - 3 Phase, 400/208/120VAC, 60 A, 50/60 Hz

#### Lincoln Electric Power Source Requirements

- North America - 3-Phase AC Voltage/Current: 208V/60A, 230V/54A, 400V/31A, 460V/27A, 575V/21A, 4 Wires (V, U, W and Ground)
- EU and AUS - distributed from SWR electrical cabinet



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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