



**rotoweld** 3.0<sup>®</sup>

**Most advanced**  
automated  
pipe spool  
welding robot

**tec**nar

Innovate to differentiate.



# Rotoweld 3.0: The world's best-integrated pipe spool welding solution

The Rotoweld 3.0 is the ultimate automated welding robot to increase your productivity and stay competitive in today's fabrication industry.

It's a recognized technology proven by 35 years in automated welding and by hundreds of commissioned Rotowelds around the world.

## Innovation that set it apart

### Welding intelligence

Introducing the latest innovation to the Rotoweld 3.0: PerfectPass-iQ™. This cutting-edge technology delivers true automatic welding with exceptional X-ray quality and provides detailed QC reports, making it a groundbreaking addition to the Rotoweld.

### Fully integrated design

The Rotoweld 3.0 is a turnkey monolithic product in which every component has been engineered to ensure the highest standards of productivity, quality and reliability.

### Reporting

Prodatalog™ is a web-based interface that gives you access to the Rotoweld 3.0 intelligence and data required to compete in the modern fabricator market.

### Compatible with workflow tracking software

The Rotoweld is compatible with MSUITE, STRATUS and PypeServer, making it a versatile tool for manufacturers.



# Welding performance

## 1 min./inch dia

for standard wall pipes prepared with 37.5 deg bevels

## 1.5 min./inch dia

for heavy wall pipes prepared with 37.5 deg bevels

## 150+ dia inch

productivity capacity per shift with the Rotoweld 3.0 Single Bay

## 300+ dia inch

productivity capacity per shift with the Rotoweld 3.0 Twin Bay



Get the Rotoweld 3.0 advantage:



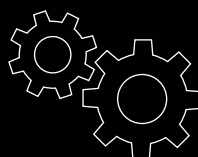
400% productivity increase



Minimal welding experience required



Performance tracking from anywhere, anytime



Customizable to your reality



Improve welder's working conditions



High-quality weld every single time

# Technical specifications

## Materials

- Carbon steel (including A333 Gr. 6)
- Stainless steel (304, 316 and similar)
- Cr-Mo steel alloys
- Duplex stainless steel

## Welding processes

- Root pass GMAW (short circuit)
- Fill pass GMAW (spray or pulsed transfer)  
FCAW (flux core)  
SAW (submerged arc)

## Rotator

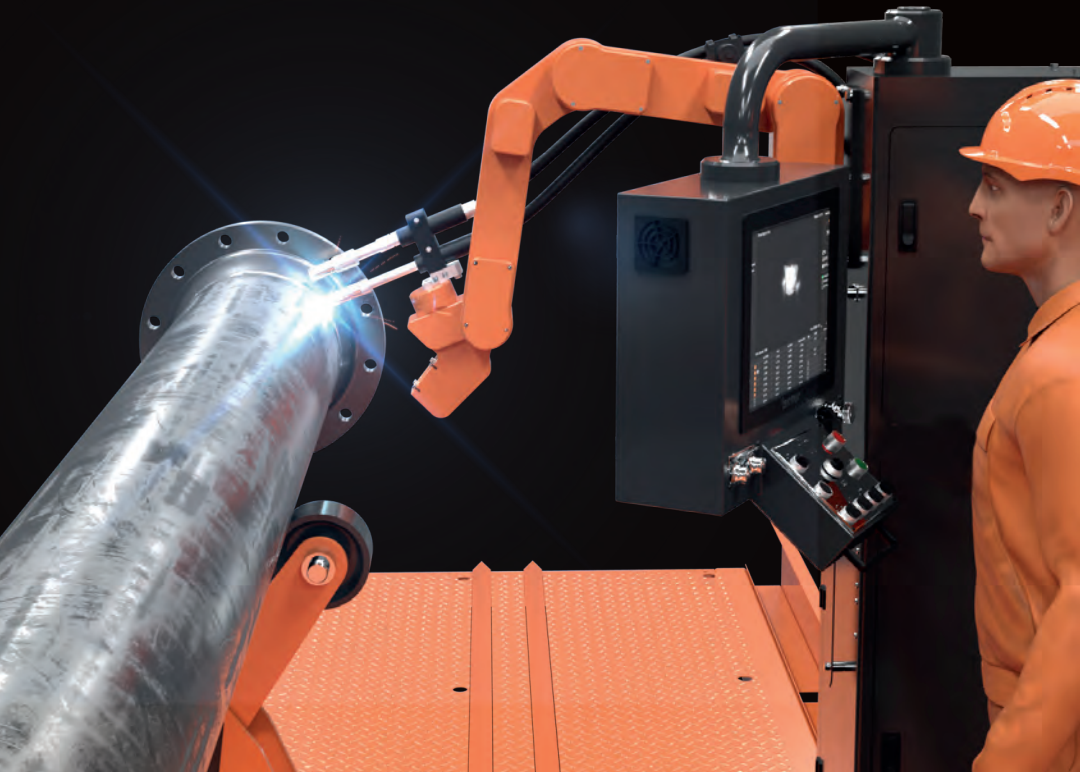
- Diameter capacity 3 in. to 42 in./75 mm to 1,065 mm  
3 in. to 48 in./75 mm to 1,219 mm (HD models)
- Centre line clearance to ground 65 in./1,605 mm  
71 in./1,803 mm (HD models)
- Load capacity 3,000 lbs./1 360 kg
- Maximum torque 50,000 lbs.-in./5,649 n-m

## Rails - adaptable to your specific configuration in 16 ft. sections

- Shortest configuration length 32 ft./9,75 m
- Longest configuration length 80 ft./24,4 m

## Pipe stands load capacity

- 10,000 lbs./4,535 kg
- 20,000 lbs./9,072 kg (HD models)



# perfect passiq



**Imagine...**  
**the best welder's best weld.**

**Every. Single. Time.**  
**And 5 times faster.**

The PerfectPass-iQ, Tecnar's latest innovation, consistently tackles the irregularities of real-life fabrication. Developed using a human approach to automate best GMAW practices, it distills 35 years of Tecnar's expertise in automation into a single dependable work cell.

#### **100% hands-off welding**

Just press start and watch the PerfectPass-iQ make perfect welds every time. It adjusts the welding parameters in real time, adapting to changes in fitting preparation and overall conditions.

#### **QC insight**

The data generated by PerfectPass-iQ is used to create a comprehensive report detailing the pipe preparation and quality of every weld. Each weld is assigned an overall score for a concise performance overview.

# Get the most productive, highest quality output in the industry

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Learn more  
about the  
Rotoweld 3.0

## References

Atlantic Construction  
Brent Gedak Welding  
Calefaccion Y  
Ventilation S.A. De C.V.  
Dearing Compressor  
& Pump  
Epsilon Industries  
Glenfield Engineering  
Perma-Pipe  
Preferred Energy  
PWC Industries  
US Engineering  
Company  
Way Engineering



"We've had Rotowelds in our Lebanon plant for over 15 years... These machines quickly became a vital part of our production operations...Through the years, the Tecnar team delivered excellent response, service and parts delivery and replacement...We purchased Tecnar's latest Rotoweld model, the 3.0. It is a giant leap forward for technical advancement, functionality, performance and up-time. It's been running for over a year now—absolutely trouble-free. Everything was re-engineered, streamlined and, unlike some of the newer technologies, technically intuitive... The new robot manipulator, standard Siemens controls and "off-the-shelf" hardware place the Tecnar Rotoweld exponentially ahead of all their competitors. Tecnar is more than a quality vendor and supplier—they are a direct part of our Perma-Pipe team!"

**Gary Renfro**  
Facilities Director and Chief Engineer  
Perma-Pipe Inc., a mechanical contractor with over 1,000 employees

"We like our Rotoweld 3.0 because it reduces the challenge of labour and allows us to deliver a job in record time."

**Tim Bowen**  
CEO - PWC Industries, a typical small family-owned business