



rotoweld 3.0®

Most advanced
automated
pipe spool
welding robot

tecnar

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 PipeServer, 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

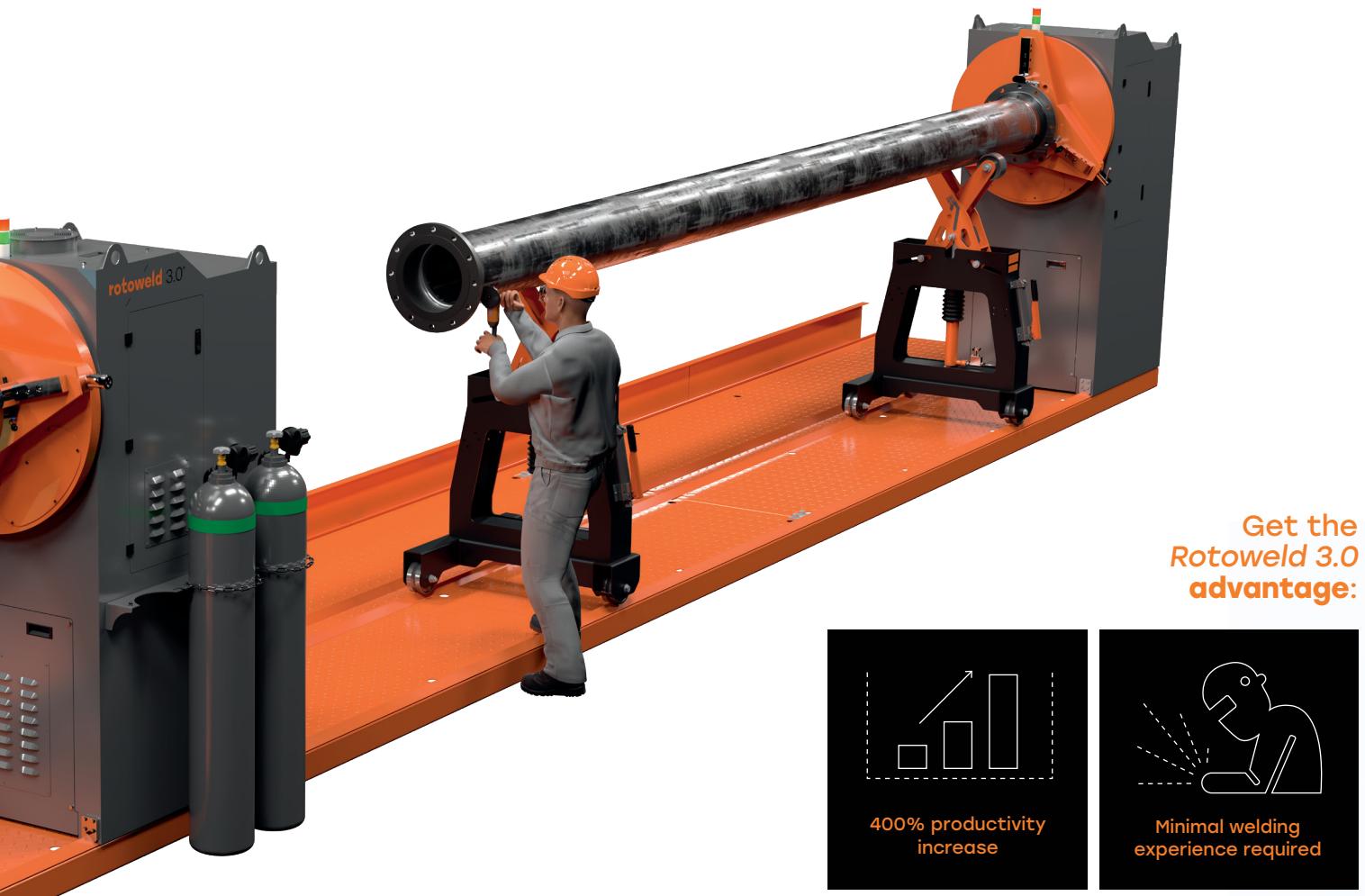
for heavy wall
pipes prepared
with 37.5 deg
bevels

150+ dia inch

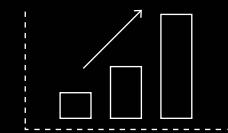
productivity capacity
per shift with
the Rotoweld 3.0
Single Bay

300+ dia inch

productivity capacity
per shift with
the Rotoweld 3.0
Twin Bay



Get the
Rotoweld 3.0
advantage:



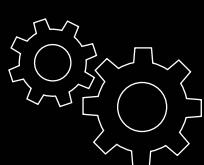
400% productivity
increase



Minimal welding
experience required



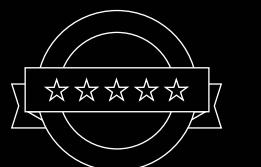
Performance tracking
from anywhere, anytime



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

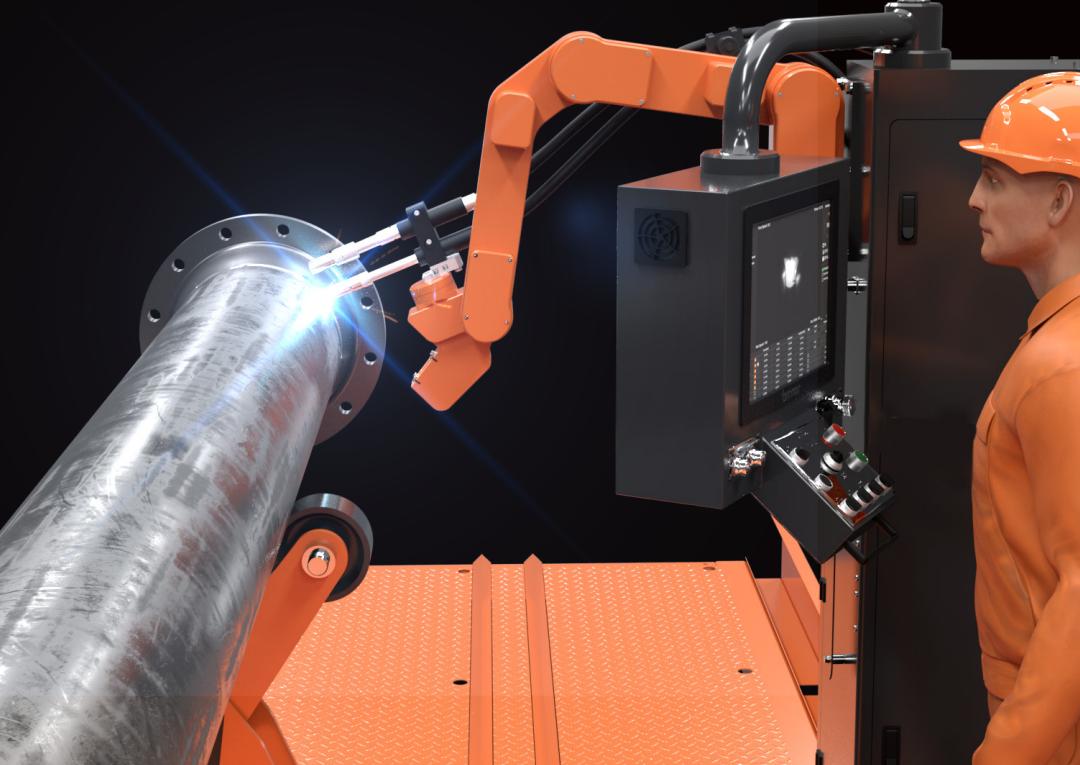
Shortest configuration length 32 ft./9,75 m

Longest configuration length 80 ft./24,4 m

Pipe stands load capacity per pair

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

- Exxon
- Way Engineering
- Fablogix
- Southland Industries
- Bin Quraya
- Relay Engineering
- Inova
- TTI Oil
- Chevron
- Phillips 66
- PRAJ GenX
- ALEMCO
- S&R Compression
- Epsilon Industries
- TAS Energy



"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