

# DOING IT RIGHT.

With



## FROM “OLD SCHOOL” WELDING TO NEXT-LEVEL AUTOMATION: **BOOSTING SAFETY, QUALITY, AND PRODUCTIVITY**

### A Bit About PTTG

Founded in 1919, Pittsburgh Tank & Tower Group has grown from a water tank maintenance firm into a diversified manufacturer with more than 400 employees across two plants. The company builds and maintains water tanks, communication towers, and steel structures for municipalities, schools, hospitals, industrial manufacturers, and even the U.S. Department of Defense.

Despite its long history and a reputation for being “okay with being old school”, PTTG has never shied away from innovation. In 2021, the company became 100% employee-owned, deepening its culture of pride, accountability, and long-term vision.

“We’ve always taken tremendous pride in what we do. Now, as employee-owners, we’re even more focused on improving efficiency and productivity. **Our future depends on it.**”

# CLOOS



### The Punchlist

**The Customer:** Pittsburgh Tank & Tower Group (PTTG), Henderson, KY

**The Segment:** Construction and Heavy Equipment

**The Need:** Improve safety, weld consistency, and throughput while easing pressure on skilled welders

**The Fix:** A three-station CLOOS robotic welding system featuring:

- QIROX QRC 350-E 2.0
- QINEO Pulse Pro 601
- ArcBoT cobot welding system

**The Bottom Line:** 30–50% output increase across multiple product lines, 50–75% faster weld cycles, and 40% fewer welding defects

## THE CHALLENGE

PTTG's skilled fitters and welders are in high demand, but the company was facing challenges: keeping up with orders, maintaining consistent quality, and ensuring worker safety while welding carbon and stainless steel products.

**"Safety, quality, and productivity were the key drivers," says one plant manager. "We wanted to keep our people away from toxic fumes, ensure consistent weld quality, and reduce fatigue from repetitive work"**

Manual welding had its limits. Multi-pass welds, inconsistent finishes, and long cycle times were straining both production schedules and workers. PTTG needed a solution that would not only improve throughput but also set them up for future growth.



**“With the CLOOS system, we cut tower leg welding time in half. For tank accessories, output is up 30%. And we’re freeing welders to take on more complex projects that still require a human touch.”**

## THE SOLUTION

After evaluating options, PTTG chose CLOOS for its welding expertise and strong automation systems. CLOOS installed a three-station robotic welding system, complete with two-axis positioners and long-bed stations for tower leg assemblies. The system was designed for maximum efficiency: while one station welds, the others can be loaded or unloaded. This continuous workflow has transformed PTTG's fabrication approach into a more production-oriented mindset.

**CLOOS**

## IMPACT AT A GLANCE



### Increased Productivity:

A stainless-steel panel job that once took 45 minutes can now be completed in just 15.



### Enhanced Precision:

Robotic one-pass welds eliminate the need for multiple starts and stops, reducing common defect points.



### Improved Safety:

Integrated fume extraction keeps air cleaner on the shop floor.



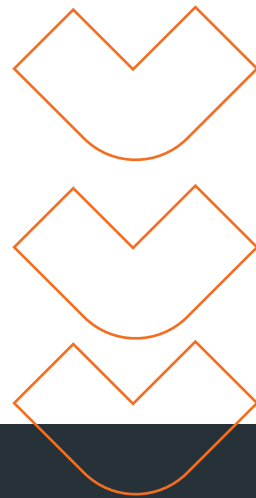
### Smarter Workflow:

Weld fixtures and tighter tolerances have reduced grinding, scrap, and rework.

### The Last Word

“CLOOS took us from fabrication to production. Now we’re building consistent, high-quality parts instead of one-off jobs.”

PTTG Leadership



## LET'S TALK SHOP

From pre-engineered systems to fully customized solutions, our product specialists will walk you through the options, answer your questions straight, and help you choose the welding automation that works for you.

Connect With a CLOOS  
**Automation Expert**

[sales@cloosna.com](mailto:sales@cloosna.com)  
847.923.9988

CLOOS

