![Path Robotics logo](Path Robotics)

Truly Autonomous Welding

Programming complex parts is one of the most difficult tasks in robotic welding.

So we removed it.

Our proprietary AI system enables robots to autonomously see, understand, and weld your parts without the need for skilled welders or robot programmers.

↘

The American Welding Society predicts a deficit of 400,000 welders by 2024.

How It Works

01
See

The system scans and identifies the seams that need to be welded. The system sees each part individually, so perfect fit-up is not required.

02
Understand

The system autonomously programs itself to create the optimal weld path. This includes coordinated movement of the robot and positioner to put the part in a position to create the best weld.

03
Weld

As the robot welds, it also collects quality information. The robot learns from this data to make the next weld even better.
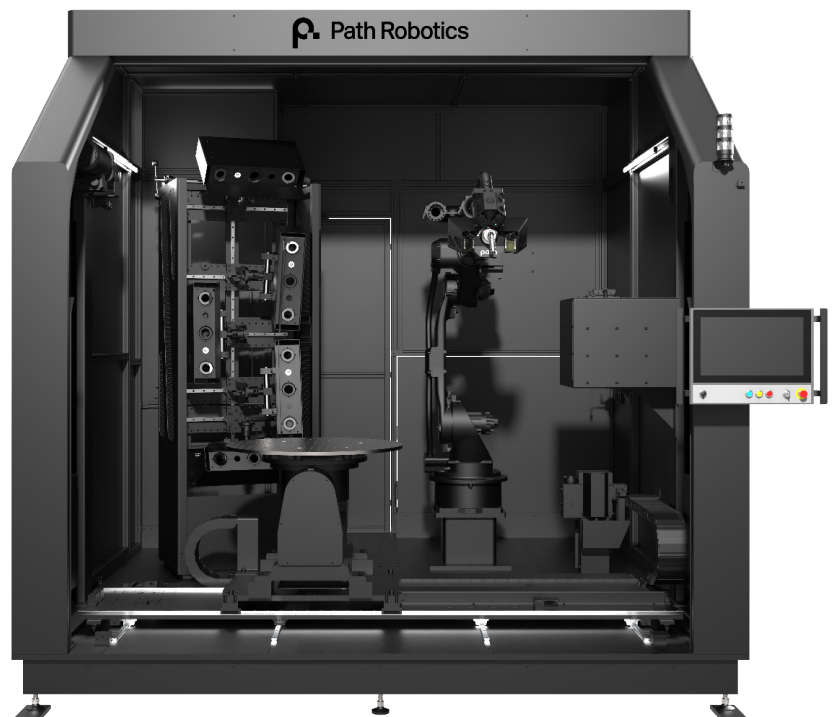
Cell capacity and configurations

A Path Robotics cell is perfect for a medium mix, low to medium volume of parts. The AI robotic welding system can be deployed in multiple cell configurations dependent on part size and part needs.

AW2

Key capabilities:

- Multiple Configuration Options
    - Vertical Positioner: 1m x 1.2m dia. weldment volume envelope
    - Horizontal Positioner: 1.5m x 1m dia. weldment volume envelope
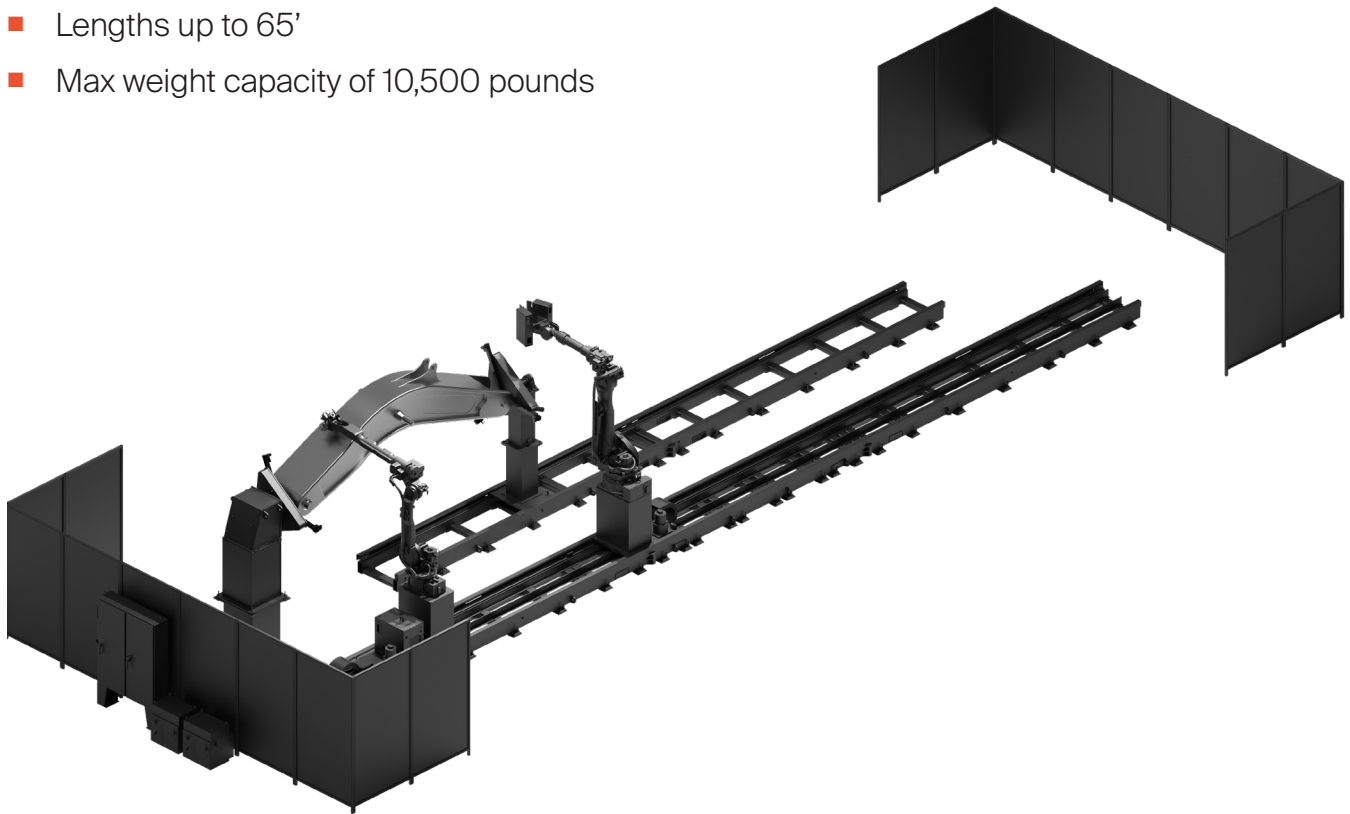- Cell dimensions: 11' W × 12' D × 11' H

AW3

Key capabilities:

- Diameters ranging from 8" to 72"
- Lengths up to 65'
- Max weight capacity of 10,500 pounds

Our systems are designed for:

- Complex fabrications
- Intricate parts
- A variety of industries
- Low to medium volume, high mix environments
- High fit-up variation
- Welds that are impossible with static parameters

Perfect for:

- GMAW
- Single or Multi-Pass welds
- Steel or Stainless Steel
- Aluminum

No need for perfect parts, perfect placement, or programming

Fully Autonomous
Real-time feedback and post-weld inspection technology provide consistently optimal weld quality.

Welding as a Service (WaaS)
Mitigate risk of rework from human and robot inconsistency. Flexibility to scale up and down as needed.

No Programming
No engineer and no teach pendant.

No CapEx
Pay as you go subscription model

InstantROI
You start paying when it starts welding.

For more information, visit us at:
www.path-robotics.com

path