INFINITE ROBOTICS

AUSTRALIAN MADE AND OWNED

INDUSTRIAL ROBOT WELDING SYSTEMS

High-performance welding automation built for production manufacturing. Designed and built in Australia.

Automation Built for Throughput

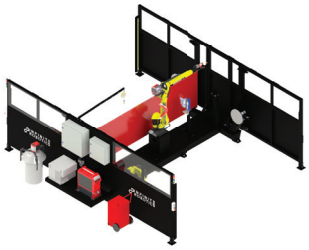
Infinite Robotics industrial welding systems are designed for manufacturers who need higher output, consistent weld quality, and the ability to scale production without relying on increasing manual labour.

These systems combine industrial robots, advanced welding technology, and automated positioners to keep welding continuous and efficient.

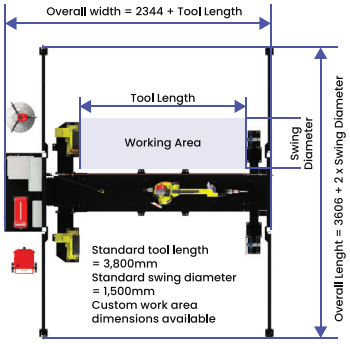
By automatically rotating and positioning parts, the system keeps welds in the optimal position — improving quality while reducing cycle times.

What This Means for Your Production

- Faster cycle times
- Higher daily output
- Consistent weld quality across all parts
- Reduced manufacturing costs
- Improved delivery performance
- Ability to take on larger contracts



Dual Station



Industrial Robotic Welding System Overview

Robot Platform

FANUC industrial welding robot for high-speed, repeatable motion.

Delivery Scope

Full system design, build, installation, commissioning, and operator training.

Welding Technology

Advanced MIG systems from Fronius or Kemppi for steel, stainless, and aluminium.

System Construction

Heavy-duty fabricated base frame designed for industrial environments. Fully wired and factory tested before delivery.

Controls & Safety

Operator control station, integrated safety systems, and safety cell design to AS4024.

Workpiece Handling - Dual Station Head & Tailstock

The core of this system is a dual-station headstock and tailstock positioner that allows:

- One part welding while the next part is loaded
- Automatic rotation for optimal weld angles
- Reduced stops and repositioning
- Continuous robot utilisation

Options Available

Additional options available including linear tracks, multi-axis positioners, offline programming, automated part handling, laser welding, plasma cutting and advanced sensing technologies.

Standard Specification for Dual Station with Headstocks

Robot Model	FANUC ArcMate 120iD/12L
Robot Reach	2,272mm
Programming Method	Teach Pendant or Offline Programming
Working area without linear track	Up to 3,800mm x 1,500mm
Welding Process	MIG, TIG, Laser
Plasma Cutting	Optional Hypertherm PowerMax
Welding Positioners	1,500kg single axis headstocks included. Other positioners available
Linear Tracks	Optional with custom travel lengths
Fume Extraction	Optional fume hood or torch mounted

Grain Silo Manufacturer

Dual Station Robot System

Welding large structural frames and subcomponents for grain silo production.

Challenges

- Large, heavy parts difficult to reposition
- High weld volumes needing consistency
- Repetitive part demand exceeded current manual welding capacity
- Skilled labour shortages

Solution

Australian Made dual-station robot system featuring:

- FANUC ArcMate 120iD/12L
- Kemppi AX Pulse MIG
- Dual 1,000kg payload head and tailstock positioners
- Integrated Kemper fume extraction

Outcome

50% - 60%
cycle time reduction

Consistent
weld quality

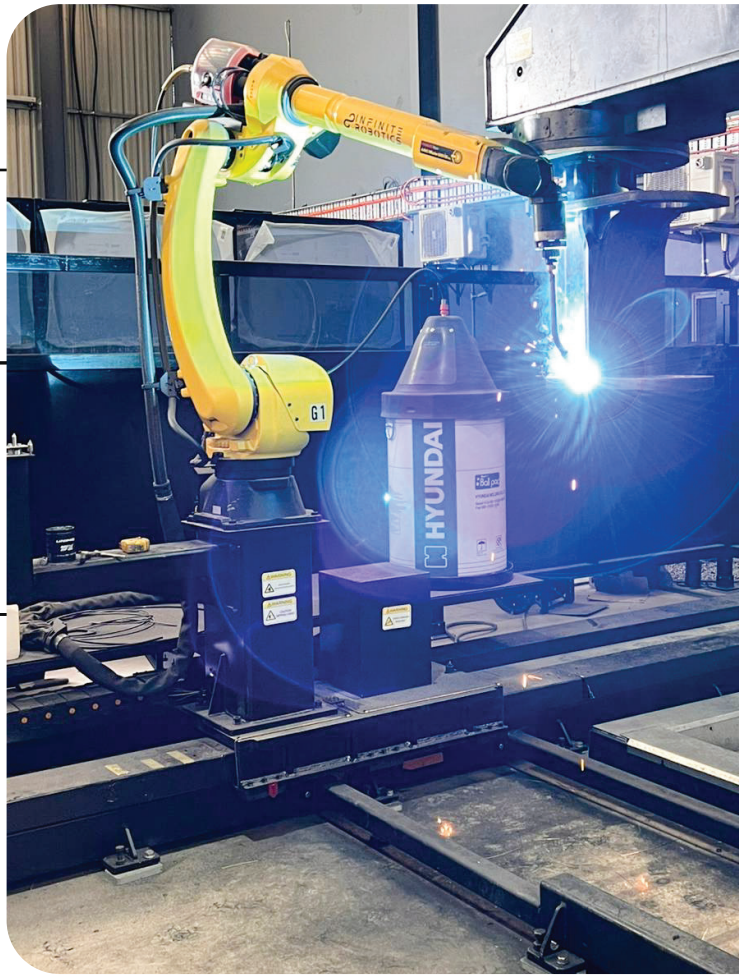
Reduced
manual handling risk

Increased
production capacity without more labour

Argricultural Machinery Manufacturer

Track Robot System

Welding large, heavy agricultural machinery parts with multi-plane welds.



Challenges

- Hard-to-access welds
- Unsafe manual rotation of large parts
- Throughput pressure with limited labour

Solution

Custom Australian Made system featuring:

- Track-mounted FANUC M710iC/12L robot
- 1,000kg payload 2-axis positioner
- Fronius TPS/i 500A pulse MIG
- Handles parts up to 1,600mm wide and 1,600mm high

Outcome

Eliminated
manual handling of heavy parts

Consistent
high-quality welds

Faster
cycle times

Increased
throughput without increasing workforce

YOUR PARTNER IN ROBOTIC WELDING

Infinite Robotics is an Australian engineering company that designs, builds, and supports robotic welding systems. We help manufacturers increase output, improve consistency, and reduce their reliance on hiring more skilled welders.

Why That Matters to You

- Systems engineered and assembled in Australia
- Supported by the same team who built it
- No overseas service delays
- Faster support, less risk

What we Deliver

- Weld feasibility testing
- System design and build
- Installation and training
- Ongoing local support

Proudly Australian Made

When you invest in our robotic welding systems, you're investing in uptime, reliability, and support from people who understand Australian manufacturing.

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infiniterobotics.com.au
8/1 Field Close, Moorebank, NSW, 2170, Australia
sales@infiniterobotics.com.au
+61 434 021 452

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