



ENGINEERING SERVICES

Get the Most Out of Your Automation.

GLOBAL engineers install, commission, program, troubleshoot, maintain and support automation, from launch through day-to-day production.



LEVEL 5

FANUC AUTHORIZED SYSTEM INTEGRATOR

FIELD EXECUTION

Install It. Launch It. Keep It Running.

On-site engineering and technical support for new equipment, existing automation, production launches, shutdowns and day-to-day plant needs.

WHEN TO CALL GLOBAL

- ✓ A cell or line has recurring faults or unplanned downtime
- ✓ You need robot, PLC or controls programming capacity
- ✓ A process is missing cycle time, quality or repeatability targets
- ✓ Production is down and you need outside help — fast.
- ✓ New equipment needs commissioning or launch support
- ✓ Preventive maintenance is falling behind



Installation & Launch

Installation Support

- Installation engineering and supervision
- Installation verification to project and OEM specifications
- Mechanical and electrical installation support
- Redlines and as-built documentation

Power-Up & Commissioning

- Equipment power-up
- I/O and controls checkout
- Robot, PLC and HMI debug
- Safety and interlock verification

Launch & Ramp-Up

- Production launch support
- Ramp-up and stabilization
- Shutdown, weekend and holiday support



Maintenance & Troubleshooting

Troubleshooting & Recovery

- Automation, robot, controls, electrical and mechanical troubleshooting
- Root-cause analysis for recurring faults
- Robot-down and production recovery support
- Next-day on-site support often available

Preventive Maintenance

- FANUC service and preventive maintenance
- Equipment assessments and health checks
- Backup verification and recovery planning
- Recurring preventive maintenance agreements

FANUC Robots, Controllers & Spare Parts

- Level 5 partner pricing and access — often faster and lower cost than buying direct.
- Recommended spare parts list and stocking plans

WHY GLOBAL

**Built from FANUC expertise.
Trusted by FANUC ever since.**

GLOBAL was founded in 2009 by former FANUC engineers, and FANUC's paint systems group has contracted with GLOBAL ever since for installation, commissioning, programming, process development and service support.

RAPID RESPONSE

Next-day on-site support often available

HUNDREDS

of FANUC projects supported every year

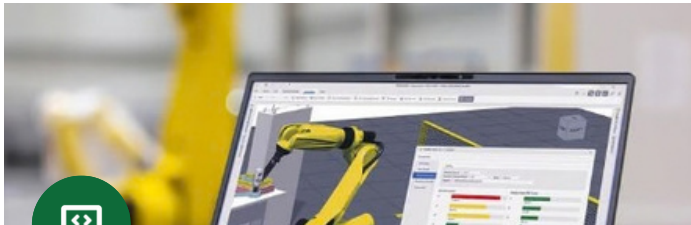
AFTER HOURS

Nights, weekends and planned shutdowns

PROGRAMMING + ENGINEERING

Beyond Robot Service

GLOBAL supports the robot, the controls, the process and the software around the cell, with the same engineering bench that develops and integrates new automation.



Robot Programming & Optimization

- FANUC robot programming and troubleshooting
- Offline programming and simulation
- Path development, touch-ups and recovery
- Cycle-time optimization and tuning
- New part programming without hardware changes
- Vision-guided robot support
- Operator, maintenance and programmer training



Controls & Software

- PLC programming and troubleshooting
- HMI programming and modifications
- Controls debug and software modifications
- Controls and safety PLC modifications
- Automation software and application support
- Backup and recovery support
- Rockwell, Siemens, Beckhoff and other PLC platforms

We diagnose the process, not just the fault code.

Process & Engineering Support

When the problem is application performance rather than a failed component, GLOBAL helps develop, tune, validate and troubleshoot the process itself.

PROCESS DEVELOPMENT

- Process development and troubleshooting
- Parameter development and optimization
- Application testing and process tuning
- Equipment and process validation

ENGINEERING SUPPORT

- Controls engineering
- Electrical and mechanical engineering
- Automation and field engineering
- Technical documentation and site support



APPLICATION SUPPORT

Paint & Coating

Liquid, powder, booths, defect detection

Dispense & Sealing

Sealer, adhesive, LASD, meter/mix

Welding & Joining

Spot, MIG/TIG, stud welding, fixturing

Assembly, Test & Inspection

Feeding, fastening, QC checks, data tracking

Material Handling

Part transfer, conveyance, machine tending

Part Finishing

Milling, deburring, grinding, polishing

RECENT ENGAGEMENTS

From robot-down calls to lifecycle service

Robot service & component replacement

Aerospace · United States · \$10K – \$25K

Weld robot diagnostics & cell recovery

Truck & bus OEM · United States · Under \$10K

Multi-year resident support — 12 engagements

Plastics manufacturer · Mexico · \$100K – \$250K

Safety PLC modification & software support

Automotive OEM · United States · \$10K – \$25K

Paint process & software engineering program

Automotive OEM · Canada · \$500K – \$1M

Sealer commissioning — phase 2 launch

Automotive OEM (EV) · United States · \$250K – \$500K

Offline programming — 35 part numbers

Construction & ag equipment · United States · \$50K – \$100K

Recurring robot fleet preventive maintenance

Battery manufacturer · Middle East · Multi-year support

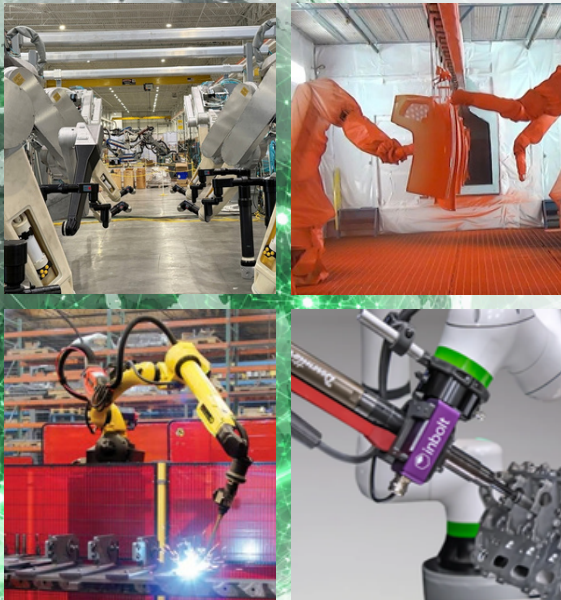
GLOBAL
in the last 5 years

745+
automation
projects

140+
manufacturing
facilities worked in

700+
FANUC robots
installed

#1
FANUC robot purchaser among
N. American integrators 2025



ABOUT GLOBAL

One partner to design, build, service, and staff manufacturing automation.



SYSTEMS Turnkey automation, retools, upgrades and retrofits

GLOBAL designs, builds, and integrates custom automation solutions from tooling and lean stations to robotic cells and complete production lines.



SERVICES Programming, maintenance & engineering support

Programming, commissioning, troubleshooting, maintenance and process support for the automation you already run.



STAFFING GLOBAL recruiters help you hire technical talent

Controls, robotics and engineering professionals for contract, contract-to-hire and direct-hire roles.



Need service, programming or engineering support?

Tell us what you're working on, and we'll connect you with the right engineer.



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Book a services discovery call