



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 or quality targets
- ✓ Your team needs hands-on training on your equipment
- ✓ Production is down and you need outside help — fast
- ✓ New equipment needs commissioning or launch support
- ✓ Preventive maintenance is falling behind
- ✓ A shutdown, retool or model changeover is coming up



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
- Robot health assessments & fleet evaluations
- 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

PROGRAMMING + TRAINING

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



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
- Rockwell, Siemens, Beckhoff and other PLC platforms



ON-SITE AUTOMATION TRAINING

Training at Your Plant. On Your Equipment. Built Around Your Process.

Give operators, maintenance technicians and programmers hands-on training using the robots, programs and production processes they work with every day.

GLOBAL tailors on-site instruction to your equipment, team experience and production needs, reducing travel costs and time away from the plant.



Your Plant

Training happens where your equipment runs, minimizing time away from production.



Your Equipment

Your team trains on your robots, controls, tooling and automation.



Your Processes

Tailored to the applications your team supports: paint, dispense, welding, assembly and more.

PROCESS + ENGINEERING

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 troubleshooting and root-cause analysis
- Parameter development and optimization
- Application testing, tuning and validation
- Quality, cycle-time and repeatability improvement

Engineering Support

- Controls design and modifications
- Electrical and mechanical design
- Automation and field engineering
- Technical documentation and site support
- Machine vision integration, calibration and tuning



We diagnose the process, not just the fault code.

APPLICATION SUPPORT



Paint & Coating

Liquid paint, powder coat, primer, clearcoat
Basecoat, electrostatic, booth automation



Dispense & Sealing

Seam seal, hem flange, structural adhesive
Glass bonding, foam, LASD, TIM, FIPG



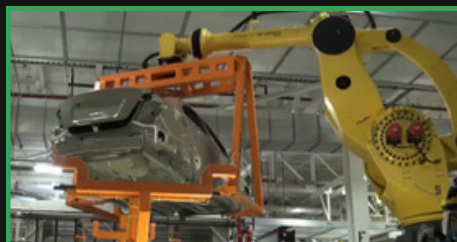
Welding & Joining

Spot, MIG, TIG, laser, stud, projection
Fixturing, racking / de-racking, bin picking



Assembly, Test & Inspection

Part feeding, pressing, fastening, riveting
QC checks, gauging, marking, traceability



Material Handling

Part transfer, machine tending, palletizing
Vision-guided robots, custom EOAT



Part Finishing

Deburring, grinding, sanding, polishing
Routing, trimming, drilling, laser cutting

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

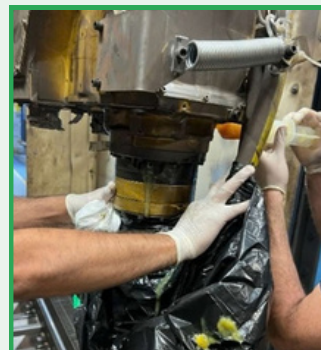
140+
manufacturing
facilities worked in

700+
FANUC robots
installed

#1
FANUC robot purchaser among
N. American integrators 2025



On-site launch support and commissioning



Reducer grease purge



Teach pendant diagnostics



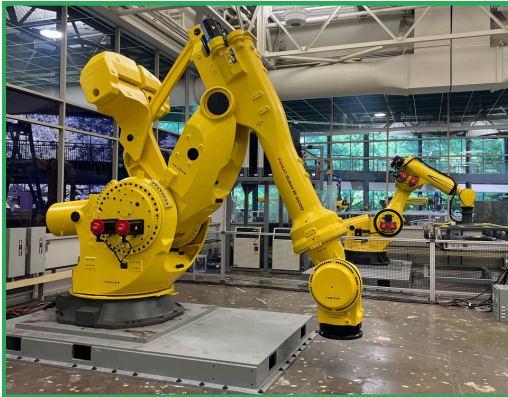
Weld cell troubleshooting



Controller maintenance

ABOUT GLOBAL

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



SOLUTIONS Turnkey automation, retools, upgrades and retrofits
GLOBAL designs, builds, and integrates custom automation systems from tooling and lean stations to robotic cells and full production lines.



SERVICES Programming, maintenance & engineering support
Programming, commissioning, troubleshooting, maintenance, training and process support for the automation you already run.



STAFFING GLOBAL recruiters help you hire technical talent
Controls, robotics and engineering professionals for direct-hire, contract and contract-to-hire roles.

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

100+

FANUC paint projects supported every year

AFTER HOURS

Nights, weekends and planned shutdowns

Global reach. Local support.

4

global offices

110+

team members

22+

countries served



Need service, programming, training or engineering support?

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



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