

AUTOMATION SOLUTIONS

Custom Automation. Engineered for Production.

GLOBAL designs, builds and integrates custom automation systems, from new robotic cells and production lines to retools, retrofits and upgrades of the equipment you already run.



LEVEL 5

FANUC AUTHORIZED SYSTEM INTEGRATOR

Design • Build • Integrate • Install • Support

NEW TURNKEY AUTOMATION

Built Around Your Production Goals.

GLOBAL designs, builds and integrates lean workstations, custom tooling, single robotic cells, multi-robot systems and complete production lines around your product, process and plant requirements.

FANUC Experts

Deep experience. Faster deployment. Better pricing. Lifetime support.

#1 Purchaser of FANUC Robots Among North American Integrators in 2025



Hundreds of robots installed every year
on GLOBAL systems, and as FANUC's go-to team for programming, installing and commissioning its paint lines.



Proven paths. Faster installs.
Watch your line run in simulation before you buy. Small cells often install over a weekend.



Level 5 integrator pricing
Robots and spare parts, often faster and lower cost than buying direct from FANUC.



Supported for life
Programming, troubleshooting, on-site training, preventive maintenance, repairs and upgrades.



PROJECTS AT EVERY SCALE



Workstations, Tooling & Robot Cells

Up to four robots.
Fixtures, tooling and vision integration.
Often installed in a single weekend.

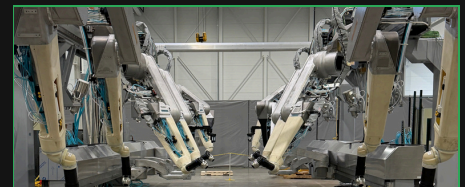
\$20K – \$500K



Multi-Robot Systems

Four to fifteen robots.
Seventh-axis rails.
Multi-station lines with integrated part conveyance.

\$500K – \$5M



Complete Lines & Greenfield

End-to-end paint, sealer, weld and assembly lines.
Delivered as prime contractor.
Simulation through site acceptance.

\$5M – \$30M+

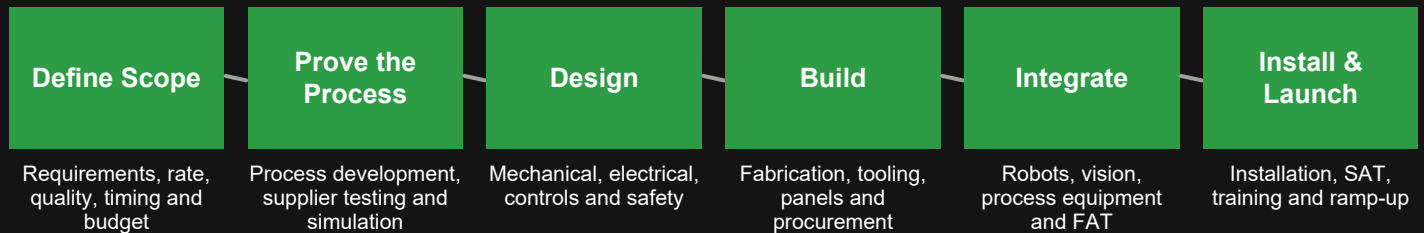
HOW WE WORK

We Own the Process. Start to Finish.

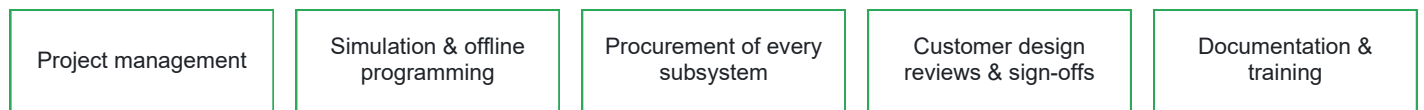
GLOBAL takes responsibility for the complete system, from scope definition and process proof through design, fabrication, programming, integration, installation, site acceptance, training and ongoing support.



ONE INTEGRATOR. PRECISE EXECUTION.



RUNNING UNDERNEATH EVERY STEP



You don't need a finished scope to get started. Bring us your product information, production goals or initial concept. We'll help define the scope and develop the right system approach.



ONE PARTNER

One contract, one project manager and one point of contact. We handle the vendors so you don't have to.



ON SCHEDULE

Defined milestones, design reviews and customer sign-offs at design, FAT and SAT keep your launch on track.



DETAIL-DRIVEN

Requirements documented, paths proven in simulation and every system run off at FAT before it ships.

EXISTING AUTOMATION

Your Products Evolve. Your Automation Can Too.

Retool, upgrade and modernize the equipment you already own to run new products, increase output, improve quality and extend equipment life.



WHY UPGRADE

UPTIME × SPEED × QUALITY = OEE

Target the losses holding your line back: downtime, slow cycles and defects.



More Uptime.

Resolve recurring faults, feeding jams and unreliable vision.

Replace aging robots and controls to reduce unplanned downtime.



Faster Cycles.

Optimize robot paths, controls and part transfer to shorten cycles.

Add robots or stations to relieve bottlenecks.



Better Quality.

Add inspection, error-proofing and process control to reduce defects.

Capture production data for traceability and troubleshooting.



New Model. Same Line.

Repurpose existing lines for new products and variants.

Retool fixtures, update programs and integrate new processes.



Safer Work. Better Access.

Reduce hard guarding with area scanners, safety software and cobots.

Improve operator access and let them work safely alongside automation.



Automate Manual Stations.

Add AI-assisted robots to tasks still performed by hand.

Free up operators, improve consistency and boost output.

RETROFITS & MODERNIZATION

Weld cell robot replacement: 15 robots, one order

Truck & bus OEM · United States · \$1M – \$2M

Paint bell upgrade with Sames applicators

Truck & bus OEM · International · \$1M – \$2M

3D sealer bead inspection, retrofit to 4 existing robots

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

Sidewall and windshield robot replacements

Truck & bus OEM · United States · \$250K – \$500K

Cobot stud welding, manual station weekend upgrade

Automotive OEM · International · \$250K – \$500K

RETOOLS & PROCESS CHANGES

Four-wet paint process conversion on an operating line

Automotive OEM · Canada · \$1M – \$2M

Model and crew cab changeover programming

Automotive OEM · International · \$100K – \$250K

Clearcoat preset upgrade and commissioning

Automotive OEM · United States · \$50K – \$100K

Primer process extension and applicator replacement

Automotive OEM · United States · \$50K – \$100K

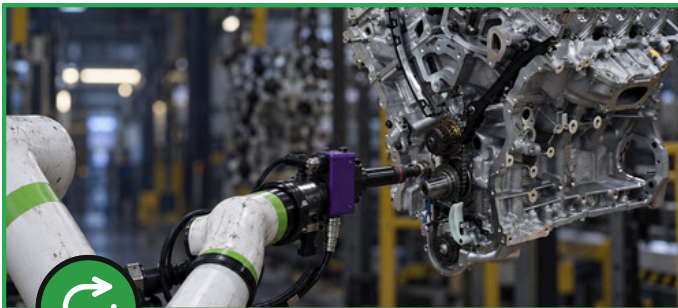
Robotic adhesive cell optimization

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

VISION & AI UPGRADES

Add Vision and AI. Let Your Robots See More, Do More.

One of the highest-value upgrades you can make: give the robots you already own the ability to see, adapt and take on new work.



Work on moving parts

Automate moving-line tasks that always needed an operator. Vision tracks the part, so robots work without stopping the line.



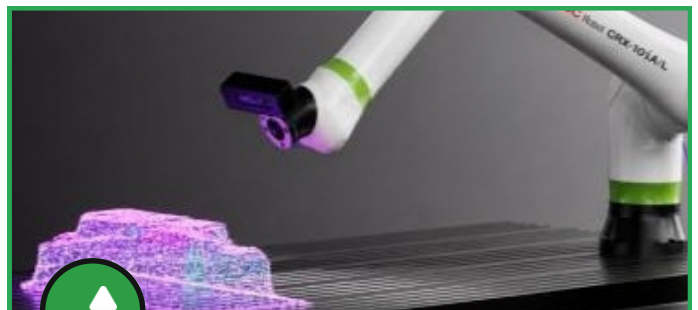
Find the part, guide the robot

Locate parts to pick, place, weld, dispense, paint or assemble, without precise fixturing or costly precision dunnage. From small parts to full car bodies.



Catch defects, even fix them

Inspect parts and beads in-process to detect and classify defects, and in some applications trigger automated robotic rework.



Run high-mix production

Identify each incoming part, run the right program automatically and adjust the robot path to fit the part. No changeover required.

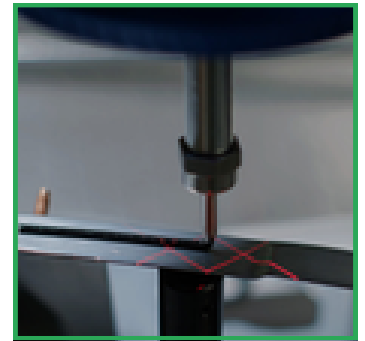
WHY NOW: PHYSICAL AI

Vision powered by physical AI lets robots adapt to variation and take on tasks they couldn't before: bringing more flexibility, new capabilities and affordable automation to high-mix production.

PAINT & DISPENSE

Our Deepest Expertise. Proven Worldwide.

From single cobot cells to complete greenfield paint shops, GLOBAL engineers and integrates the full paint and sealer process.



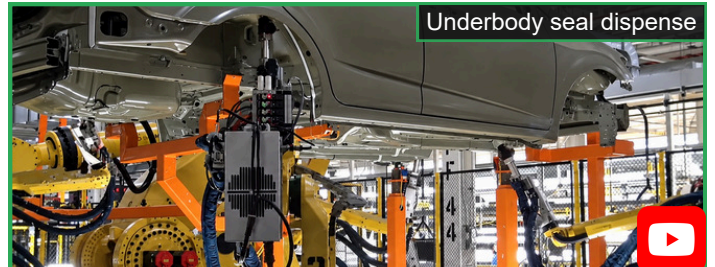
550+ Paint & dispense POs since 2021, across 77 plants in 9 countries

FEATURED: Greenfield EV paint & sealer shop · \$36M+

PTED rooms, precision seal, roof ditch, skive, underbody sealing, PUR foam and paint application.



Ag equipment painting



Underbody seal dispense



Body paint application



LASD on truck cab body

Click any video icon to watch on YouTube.

WE DELIVER THE ENTIRE LINE

Part in	Surface prep	Sealer & underbody	Paint application	Flash, cure & oven	Inspection	Repair & part out
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PAINT	E-coat · Primer, base & clear · Liquid · Powder · Booth automation · Color change · Finish inspection					
DISPENSE	Seam seal · Hem flange · Structural adhesive · LASD · Glass bonding · PUR foam · Bead inspection					
EVERY STATION	Path development · Process control · Material delivery · Part presentation · Vision & data · Offline simulation					

PROCESS EXPERTISE

Built Around the Process. Not Just the Robot.

Beyond paint and dispense, GLOBAL designs, builds and integrates automation for welding, assembly, material handling and finishing — engineered around your parts, production rates and quality requirements.



Welding & Joining

Robotic welding systems engineered for consistent weld quality, repeatability and throughput.

Spot & resistance · MIG / MAG / TIG · Laser · Stud
Projection · Fixturing · Weld inspection



Assembly, Test & Inspection

Assemble, test and inspect parts in one automated process, with quality verified every cycle.

Part feeding & transfer · Insertion · Pressing · Fastening
In-process inspection & test · Marking · Traceability



Material Handling

Move parts between machines, processes and production lines with minimal manual intervention.

Machine tending · Load/unload · Bin picking · Racking ·
Palletizing · Conveyance · Packaging · Custom EOAT



Part Removal & Finishing

Automate demanding cutting and finishing operations for consistent results and reduced manual labor.

Milling · Drilling · Boring · Trimming · Deburring · Grinding
Sanding · Polishing · De-gate · De-flash

INDUSTRIES SERVED

Automotive & EV · Heavy Truck & Bus · Agriculture & Construction · Aerospace & Defense · Building Products
Battery & Energy Storage · Appliance & Consumer Products · Data Center Equipment · Metal Fabrication & Stamping

ENGINEERING SERVICES

Support Beyond Startup. Same Team. Every Shift After.

The same engineering team that builds your system supports it, from launch through day-to-day production.



WHAT WE SUPPORT



Programming & Optimization

FANUC robot, PLC/HMI and vision programming. Offline programming and cycle-time tuning.



Maintenance & Troubleshooting

Robot-down recovery, root-cause analysis and preventive maintenance programs.



Process Support

Process troubleshooting, parameter development and quality improvement.



Commissioning & Launch

Power-up, debug, launch and ramp-up support, including nights, weekends and shutdowns.



On-Site Training

Hands-on training for operators, maintenance and programmers on your equipment.



FANUC Robots & Spare Parts

Level 5 partner pricing and access, plus recommended spares and stocking plans.



ENGAGEMENTS AT EVERY LEVEL

Single Visit

Diagnostics, preventive maintenance, robot service and return-to-service support.

UNDER \$25K

Project Engagement

Offline programming, commissioning, process studies, controls modifications and training.

\$25K – \$250K

Resident Program

Process engineers embedded on site, renewed across terms and multi-phase launches.

\$100K – \$1M+

638 service engagements since 2021.

Download our [Engineering Services brochure](#) for more details.

RECENT ENGAGEMENTS

Proven at Every Scale. Solutions We Build. Systems We Support.



SOLUTIONS DELIVERED

Cobot structural adhesive cell, installed in a weekend

Automotive OEM · International · \$100K – \$250K

Seam sealer & LASD cells, 39 JPH at 97% uptime

Automotive OEM (EV) · United States · \$2M – \$5M

Cab-in-white robotic weld system

Truck & bus OEM · United States · \$1M – \$2M

Automated precision seal, skive & roof ditch system

Automotive OEM (EV) · International · \$2M – \$5M

Underbody precision seal system

Automotive OEM (EV) · International · \$2M – \$5M

Engine control module leak test system

Heavy truck powertrain · United States · \$100K – \$250K

Collaborative robot door check assembly cell

Automotive OEM (EV) · International · \$100K – \$250K

Primer & PUR foam application rooms

Automotive OEM (EV) · International · \$500K – \$1M

Customer references available under NDA.

SERVICES ENGAGEMENTS

Paint process & software engineering program

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

Multi-year resident support, 12 engagements

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

Resident paint process engineers, consecutive quarters

Automotive OEM · Canada · \$100K – \$250K

Operator & maintenance training, two assembly plants

Automotive OEM · United States · \$100K – \$250K

Offline programming, 35 part numbers

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

Assembly cell design through build & commissioning

Industrial fluid power · United States · \$50K – \$100K

Color change sequence optimization

Truck & bus OEM · United States · \$25K – \$50K

Machine vision programming, valve lash inspection

Heavy truck powertrain · United States · \$25K – \$50K

GLOBAL
in the last 5 years

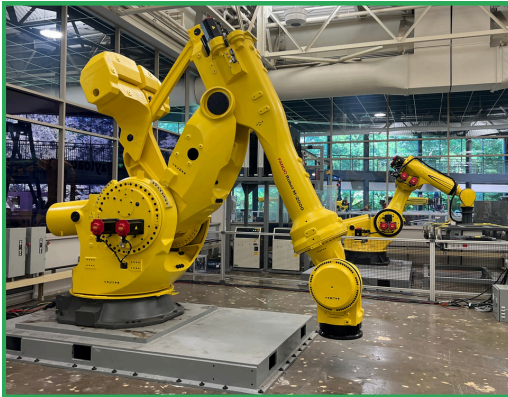
745+
automation
projects

140+
manufacturing
facilities worked in

700+
FANUC robots
installed

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



Have an automation project in mind?

Tell us what you want to achieve, and we'll help you understand your options.



Paul Sarantos

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