

FOR AUTOMATION-READY TEAMS

CAPABILITIES AND DELIVERY PROFILE



CARDINAL
MACHINE COMPANY™

A RIGHT-FIT MACHINE BUILDER FOR HIGH-LEVEL EXPECTATIONS

Cardinal Machine Company designs and builds special machines, tooling, fixtures, and factory automation systems—supporting everything from stand-alone stations to complete automation lines and systems integration.

Since 1972, Cardinal has been built around one consistent principle: **simple solutions to complex problems**—solutions that are practical to run, support, and maintain long after install.



Cardinal keeps ownership close to the work. You're not routed through layers of departments to get answers, approvals, or decisions. The same accountable team stays engaged through engineering, build, and buyoff, so requirements don't get lost in handoffs and issues are resolved quickly.

Our commitment is simple:

**FINISH WHAT WE START, STAND BEHIND
WHAT WE BUILD, AND REMAIN A PARTNER
FAR AFTER EQUIPMENT IS DEPLOYED.**

Vendor risk is part of any capital decision, and it's not purely technical. Cardinal leadership emphasizes financial discipline and stability because they underpin consistent delivery and reduce the uncertainty that comes with changing priorities or stretched vendor resources.

After the scope is locked, responsiveness determines whether the build stays smooth or stalls. Cardinal keeps the attention on your project—shortening response cycles, accelerating decisions, and maintaining clear ownership through buyoff and launch.



SUPPORTING CAPABILITIES

Cardinal builds, fabricates, integrates, and supports complete systems from design through buyoff. We also support multiple control standards, including Allen-Bradley, Siemens, Mitsubishi, Modicon, and GE Fanuc.



COMPLETE LINES & SYSTEMS INTEGRATION

We support both single machines and complete automation lines. Lines may be synchronous or non-synchronous and use conveyance such as power & free, walking beams, precision link carousels, rotary dial index, and robotic handling, with functions like feeding, drilling/tapping, punching/forming/sorting, vision, testing, and welding as needed.



SPECIAL MACHINES, TOOLING & FIXTURES

Have a speciality process you need a solution for? We have the experience to meet manufacturing needs across virtually any industry, including but not limited to medical, automotive, and defense. Cardinal Machine offers a fully staffed special machines team with expertise in designing, building, and validating custom automation solutions.



ROBOTIC MACHINES & WELDING CELLS

Cardinal Machine integrates resistance and arc welding automation and robotic cells for assembly and handling, with motion-control and safety considerations built in. For smaller-to-mid assemblies, Cardinal offers its standard CMC-VS MIG welding cell as a rapid-deploy option.



ENGINEERING & 3D DESIGN CONTINUITY

Cardinal can deliver a complete design package across mechanical, electrical, fluid power, and software, with mechanical design executed exclusively in 3D. SOLIDWORKS is the primary CAD platform, and SOLIDWORKS Simulation is used for FEA, including fatigue analysis when required.



CNC WELDING AND FABRICATION

Cardinal Machine Company manufactures bases, weldments, guarding, and sheet metal in-house using MIG/TIG welding, plasma cutting, shear/brake/roll, bead blasting, and painting, supported by CNC milling/turning, grinding, CMM inspection, and wire EDM capability.



REBUILD & RECOMMISSIONING

We provide commissioning and re-commissioning with OEM-tested procedures and dedicated oversight, verifying performance at component and integrated levels. When parts can't be sourced, Cardinal can manufacture replacements in-house using turning, milling, grinding, drilling, welding, and measurement.



SPARE PARTS & SUPPORT

Cardinal supports uptime with CMC call-out parts (wear plates, electrodes, blades, punches/dies, seals/bushings), build-to-print parts, and ready-to-install subassemblies such as EOAT/grippers and gas-fill head assemblies, plus components like sensors, motors, cylinders, and control panels.



ROBOTIC MACHINES

Cardinal designs and integrates robotic cells for repeatable automation in assembly, material handling, and welding applications, with integration built around real production requirements and safety expectations. Cardinal has extensive expertise in motion control design.

SIMPLE SOLUTIONS TO COMPLEX PROBLEMS

It's easy to build complex equipment, but complexity usually comes with a cost. Overly complex systems are harder to maintain, troubleshoot, and own over time. That's why Cardinal works to engineer solutions that stay simple where it matters: reliable day to day, straightforward to support, and practical for your team to keep running. It's the mindset we've held for decades—solve complex problems with simple solutions because the long-term outcome is better for the customer.

And “simple” doesn't mean “easy.” It often requires more work up front—more engineering effort, more process development, and more attention to how the system will actually be used and serviced. It means stripping out unnecessary detail, avoiding fragile dependencies, and choosing approaches that hold up under real constraints: operators, shift changes, wear parts, uptime targets, and future adjustments. Simple solutions don't always come quickly, but they tend to be more durable, more supportable, and less costly to own over the life of the equipment.



BETTER WORKING RELATIONSHIP

The strongest testament to our customer relationships is our partnership. We strive to ensure each customer experiences a close-knit company feel combined with high-level expertise. An executive is always just a phone call away.



CONTINUOUS IMPROVEMENT MINDSET

Cardinal emphasizes iterative improvement, refining designs across builds to reduce unnecessary detail, improve manufacturability, and strengthen long-term durability without changing the intent of the system.



SAFETY + MEASURABLE EXPECTATIONS

Safety requirements and measurable performance expectations are now baseline realities. Cardinal aligns on clear acceptance criteria and buyoff expectations so that validation is repeatable, measurable, and easier to sign off on.

WE'RE AUTHORIZED SERVICE INTEGRATORS

Whether you're integrating a new cell or expanding an extensive program with a niche requirement, Cardinal Machine meets you where you are, hands-on, adaptable, and reliable.

We bring the expertise of a large corporation with the attentiveness of a family-owned company, pairing deep engineering capability with genuine responsiveness.



FANUC

Cardinal Machine is a FANUC Authorized System Integrator, which means our customers get FANUC's proven robotic technology combined with Cardinal's custom engineering and machine-building expertise. We design robotic systems around your exact parts and processes to boost quality, throughput, and uptime—delivering automation that's reliable, maintainable, and built for strong ROI.



FLEXIV

As a Flexiv robotics system integrator, Cardinal has full access to the Rizon 4, Rizon 4s, and Rizon 10 robotic arms and the Moonlight parallel robot. They can be integrated into existing production lines or used for stand-alone applications. Combining adaptive force control technology with a robot that can work collaboratively with a human operator offers even more potential solutions to complex tasks.



CONTACT US:



1-810-686-1190



www.cardinalmachine.biz



sales@cardinalmachine.biz



OVER 50 YEARS
IN BUSINESS



FAMILY OWNED
& OPERATED



WORLDWIDE
SOLUTIONS

CUSTOM SOLUTIONS PROVIDERS FOR

DAUCH™

TENNECO

JOYSON
SAFETY SYSTEMS

CATERPILLAR®

DOW®

neapco

nexteer
AUTOMOTIVE

DSSA AZ
Daicel Safety Systems America Arizona

GENTEX
CORPORATION