

Relling Capabilities

Proven robots made capable of high mix assembly inspection and cleaning tasks.



Rebuilding American Manufacturing Expertise



From legacy plants to greenfield builds, we are the team bringing Physical AI to your factory floor, revitalizing the American industrial base for the 21st century.

Demand for aerospace and defense production continues to rise, yet its hardest and most precise work remains the slowest and most costly to produce. The reason is simple: until now, no automation existed for it, leaving this repetitive, unavoidable work to skilled labor.

Such exacting work is characterized by low-volume, high-mix production beyond the scope of conventional robotics: assembly, deformable material handling, dexterous in-hand manipulation, and inspection that requires judgment. Each is marked by some form of variation, soft or contact-rich material, and tight tolerances.

If today’s workcells could have done it, you would already have one. We built Relling for exactly this reason, our AI-enabled workcells perform discretionary, contact-rich manipulation and dynamic verification.

01 Who We Are

We are engineers, roboticists, machine learning researchers, and manufacturing veterans building the deployment stack to get cutting edge AI and research onto manufacturing floors. It is our belief that AI is best used to increase our country’s production capacity.

EVERYONE ON OUR TEAM HOLDS THE SAME THREE CONVICTIONS

A Automation should be abundant The industries the country depends on should be first in line, not last. We hold to that even when the harder, more important deployment is the less profitable one.	B <i>Festina lente</i> – make haste slowly We believe hardware has to move at the speed the moment demands and we move with real urgency. We get there by preparing thoroughly, so that by the time a workcell reaches you, the hard part is already behind it.	C Safe deployments above all We never shortcut safety. While we promise speed everywhere else, safety will always remain the longest and most uncompromisable part of our process.
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02 What We Do

We design, build, and deploy turnkey workcells that run reliably and are easy for your engineers to keep running. Each is built from a library of reusable skills rather than locked to a single program, so taking on a new part or a new job is a reconfiguration, not a rebuild. The workcell recovers quickly from interruptions, minimizing downtime so it is ready for the next job when you are.

KEY CAPABILITIES

A Robotic Systems Integration	We integrate robots into production lines to boost efficiency, reduce operator fatigue, and improve consistency across complex assemblies.
B Automated Handling	Custom conveyors, lift assists, and part-transfer systems keep components moving seamlessly through production stages, increasing line efficiency while minimizing manual handling.
C Precision Assembly Automation	We design systems for fastening, torquing, riveting, welding, and bonding aerospace-grade materials with high accuracy and repeatability.
D Vision and Inspection Systems	Integrated quality assurance systems with the ability to provide real-time defect detection, measurement, and validation. Verifiability and inspection of robotics tasks and products is our teams' bread and butter.
E Flexible Manufacturing Systems	Our automation platforms support modular tooling, recipe-driven production, and changeovers for evolving defense and aerospace program needs.

WHAT WE SHIP WITH THE WORKCELL

A Turnkey cell, configured to your part	B Plant-technician interface	C Ongoing support
A workcell that runs your task from day one; sized, fixtured, and tuned before it ships, so your engineers operate it rather than build it.	Natural language failure attribution and a recommended action, so your own engineers resolve incidents.	We closely monitor every workcell we deploy and step in promptly when your team needs us, so a problem stays short-lived.

03 Initial Deployment in ~Two Weeks

A Scoping & PO	B Pre-build at Relling HQ	C On-site configuration	D Acceptance & first unit
Up front, we agree on exactly what the workcell will do: the job, the throughput target, the fixturing, and the safety boundary. No open-ended discovery, and no scope that drifts after you sign.	We build the layout, the vision, and the safety dossier on our own production line, not yours, so the trial and error that usually ties up a customer's floor for months happens at our facility instead.	The workcell arrives and we tune it to your exact part, configuring a system that already works rather than building one from scratch in your aisle.	We run the workcell under close watch through a 72-hour acceptance test. Your safety engineer reviews the dossier and signs off and we onboard your team.

04 Let's Talk

We started Relling to help this country make more of what it needs, and there's little we won't do to earn our keep on your floor. If that's the kind of partner you're after, we'd be glad to talk.

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TEAM BACKGROUND

