American automation *runs* on Relling.

The work the country needs built is dexterous, high-mix, and short of hands. Relling puts American-deployed robot workcells on those lines: running fully on-premise, behind your boundary, with nothing leaving the facility.

QUALIFIED	INFERENCE	NETWORK	BOUNDARY
At Relling HQ, before it ships	On-premise, in the cell	None required, air-gap capable	ITAR and CMMC scoped

PARTNERS

TEAM FROM

00
OUR COMMITMENT

Relling is committed to American production dominance.

RELLING SYSTEMS
UNITED STATES OF AMERICA

That isn't a slogan. It's the thing we build for. Every cell is deployed on a domestic floor, runs on hardware inside your boundary, and adds capacity to the industrial base this country's security rests on.

The Relling team

01
WHY NOW

Everyone is being asked to build more, and nobody can hire fast enough to do it.

Rearmament, onshoring, and depot backlogs all resolve to the same bottleneck: skilled hands on contact-rich work. Fixed automation was never built to hold that work, and the tooling cost never pencils at industrial-base volumes.

01

Rate increases outrun the line

Munitions, shipbuilding, and airframe programs are being asked for output that legacy tooling cannot absorb. A software-reconfigurable cell adds dexterous capacity part by part, without a retooling cycle between them.

02

The trades are retiring

Machinists, welders, layup technicians, and harness builders are aging out faster than apprentices replace them. A cell that learns a library of these skills captures scarce tradecraft before it walks out the door.

03

Small suppliers carry the risk

Most of the industrial base is sub-tier shops running high-mix, low-volume work at thin margins. They cannot fund bespoke integration projects, which is exactly why capacity stalls below the primes.

307 per 10,000

Industrial robots per 10,000 manufacturing employees in the United States, eighth in the world.

IFR, WORLD ROBOTICS 2025

1.9 million

Manufacturing jobs that could go unfilled by 2033, out of 3.8 million to fill.

DELOITTE AND THE MANUFACTURING INSTITUTE

56 %

Share of North American robot orders in the first half of 2026 that came from outside automotive.

A3, Q2 2026

02

WHERE IT FITS

The floors this work lives on.

One cell, reconfigured per part, across organic industrial base sites, prime and sub-tier suppliers, and federally funded production.

A

Defense industrial base suppliers

Sub-tier machine shops and fabricators feeding prime programs under high-mix, low-volume demand.

B

Depot & MRO

Sustainment work on returned assets, where every unit differs and inspection load is heavy.

C

Shipyards & heavy fabrication

Weld prep, grinding, and finishing on large structures that never see a fixed line.

D

Munitions & energetics

Repetitive handling, loading, and 100% inspection on work that should not be done by hand.

E

Federal labs & test facilities

Sample handling, fixturing, and instrumented test loops that consume technician hours.

F

Reshoring programs

New domestic capacity standing up under a schedule, where headcount cannot be hired fast enough.

03

DATA CONTROL

Nothing leaves the building.

Most automation vendors need a cloud round-trip to think, which disqualifies them from controlled work before the evaluation starts. Relling's stack was built the other way around.

00

On-premise inference

Every model runs on hardware inside the cell. No inference call, no telemetry, and no part geometry crosses the facility boundary.

01

Air-gap capable

The cell runs with no external network connection. Updates are delivered as reviewed, signed artifacts on your schedule, not pushed.

02

Your data stays yours

Production data, imagery, and traceability records are written to systems you own. We do not require a data-sharing right to operate the cell.

03

Auditable by design

Every cycle logs what the cell saw, what it decided, and what it verified, in a record your quality team and auditors can read.

COMPLIANCE POSTURE

The architecture is designed to sit inside an ITAR-controlled and CMMC-scoped boundary: no cloud dependency, no foreign-hosted inference, no required outbound connection.

Certification status, control mappings, and facility requirements are handled program by program. Ask us directly and we will answer plainly about where we are.

rellingsystems.com/capabilities/on-premise-ai

04

QUALIFICATION

Qualified before it ships. Proven before sign-off.

No safety engineer signs off on an unproven cell, and they should not have to. Every cell is run against your parts at Relling HQ, then proven on your floor in a 72-hour acceptance watch before the signature.

A

HQ pre-build

Assembled and run-in against your parts before shipment.

B

Risk assessment

ISO 12100 hazard identification and reduction, for the full cell.

C

FMEA

Motion, gripping, and fault recovery.

D

Guarding design

Guards, light curtains, and safety distances verified to standard.

E

Standards mapping

ISO 10218 and RIA R15.06, clause by clause.

F

Capability data

Captured at HQ, re-verified on your floor.

05
THE CELL

Everything arrives in one qualified unit.

Arm, sensing, tooling, software, and safety, qualified as a set. Vendor-agnostic on the arm: the arms already on your floor can be qualified in.

1 **Manipulator & end-effector**
Selected for your part, qualified as a set.

2 **Closed-loop vision**
Finds the part, adjusts in real time, verifies the work.

3 **Skill library & runtime**
A new part is a reconfiguration, not a rebuild.

4 **Safety & technician interface**
Guarding sized to your floor, faults in plain language.

SPECIFICATION	
FOOTPRINT	~2 × 2 m
PAYLOAD	12.5 kg
REACH	1.3 m
IN-HAND PLACEMENT	±0.05 mm
POWER	120/240 V single-phase
SAFETY	ISO 10218 aligned
ACCEPTANCE WATCH	72 hr
INSTALL TO RUNNING	≤ 2 weeks on-site

Representative configuration. Final specifications are issued with the proposal.

06
HOW TO ENGAGE

Start with one part, not a program of record.

The fastest path is a single scoped part on a real line. We qualify the cell on our floor before it reaches yours, so evaluation does not tie up your engineers for months.

01 **Scope**
Part, takt, fixturing, and safety boundary fixed upfront.

02 **Qualify**
Built and proven at Relling HQ before it ships.

03 **Pilot**
First production run on the floor, under your acceptance.

04 **Production**
Running the work, shift after shift.

05 **Fleet**
Add cells as the work pays for them.

Commercial model
Capital purchase or robotics-as-a-service. Every proposal scopes both, price and acceptance fixed in writing.

Support
Monitoring, preventive maintenance, and on-call support are ours. Updates arrive as signed offline packages.

What we need on site
About 2 × 2 m of floor, single-phase power, and one part with an acceptance criterion. No network.

Sending us a part
Geometry class, tolerances, and takt are enough to scope. Controlled technical data moves only under handling terms, never by email.

07
CONTRACTING

How we get on contract.

We work through whichever vehicle your program already uses. Tell us the path and we will meet you on it.

NO.	ROUTE	HOW IT WORKS	BUYER
1	Through a prime or integrator	We deliver the cell as a subcontracted line item inside an existing program or integration scope.	PRIME / INTEGRATOR
2	Direct to the supplier	A sub-tier shop buys the cell for its own floor, and the capacity shows up in the program's rate.	SUB-TIER SUPPLIER
3	Prototype and OT agreements	We are set up to execute prototype work under consortium and other-transaction paths.	PROGRAM OFFICE
4	Lab and test collaboration	Joint evaluation with federal labs, manufacturing institutes, and university test floors.	LAB / INSTITUTE

Built here, for here.

Relling is an American company building the deployment layer for physical AI on American factory floors. Domestic content, supply-chain provenance, and facility requirements are documented per engagement. Ask and we will walk you through yours.

COMPANY
Relling Systems

HEADQUARTERS
San Francisco, California

REGISTRATIONS
CAGE, UEI, NAICS on request

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