

Labeling, Marking & Serialization

Vision-guided printing, application, and verification of labels, codes, and direct part marks across high-mix production.

Labels and codes land on parts that vary in size, shape, and surface. A label skewed off a curved housing, a date code printed over a seam, or a 2D matrix that won't scan all generate rejects downstream. Manual placement drifts across a shift, and serialized traceability multiplies the stakes: one misread or duplicated code breaks the chain and exposes you to compliance gaps and costly recalls.

Relling cells place and mark under vision guidance, registering each part before the label or print head commits. Print-and-apply, laser, and inkjet heads run in a closed loop: print, apply, then verify the code reads to spec before the part advances. The cell reconfigures in software per part, carrying placement offsets and serialization rules with it. Every workflow is qualified at Relling HQ before it ships.

AT A GLANCE

Footprint	~2 × 2 m
Payload	12.5 kg
Reach	1.3 m
Placement	±0.05 mm
Power	Single-phase
Install	≤ 2 weeks

01 The work we take on

THE TASK PROFILE

<p>A</p> <p>Vision registration</p> <p>Each part is located before application, so labels and marks land on the same datum regardless of part-to-part variation or fixture slop.</p>	<p>B</p> <p>Closed-loop verify</p> <p>An integrated scanner reads every code after marking and grades it; unreadable or below-grade parts are flagged and diverted, not passed on.</p>	<p>C</p> <p>Serialized control</p> <p>The cell assigns, prints, and tracks unique serials per unit, holding the part-to-code association for aggregation and downstream traceability.</p>	<p>D</p> <p>Multi-process heads</p> <p>Print-and-apply, laser, dot-peen, and inkjet stations run from one cell, selected in software to match substrate and code requirements.</p>	<p>E</p> <p>Per-part recipes</p> <p>Placement coordinates, code content, and grade thresholds are stored per part number and recalled at changeover without retooling.</p>
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02 Why now

THE CASE FOR MOVING NOW

<p>Serialization is now mandated</p> <p>Rules like DSCSA and UDI require unique, verifiable codes on individual units with intact parent-child aggregation. Manual serialization is error-prone at volume; a single duplicated or unreadable code stalls shipments and breaks the traceability chain regulators expect.</p>	<p>Mislabeled drive costly recalls</p> <p>A wrong label or unscannable code is among the most common, most expensive defects to escape a plant. Closed-loop verification catches the bad part at the cell, before it reaches a customer, an audit, or a recall notice.</p>	<p>Traceability without the headcount</p> <p>High-mix lines demand constant relabel changeovers and full-rate code checks that wear on manual labor. A cell that reconfigures per part and verifies every code holds the line rate while keeping the record complete and audit-ready.</p>
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OEMs WE WORK WITH



03 What the service covers

TASKS ON THE LINE

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| <p>A Print and apply
Print a label on demand and apply it to a located surface within tolerance.</p> <hr/> <p>C Direct part marking
Laser or dot-peen a permanent serial or logo directly onto the part.</p> <hr/> <p>E Serialization
Assign and apply unique serial numbers per unit for DSCSA or UDI compliance.</p> <hr/> <p>G RFID application
Apply and encode RFID tags, confirming a successful read after placement.</p> | <p>B Label varied parts
Place labels accurately across mixed geometries, curved housings, and inconsistent surfaces.</p> <hr/> <p>D Date and lot coding
Inkjet date, lot, and batch codes onto packaging or part surfaces in line.</p> <hr/> <p>F Code verification
Scan and grade every barcode or 2D matrix for legibility before release.</p> <hr/> <p>H Case aggregation
Label cases and link unit serials to parent containers for hierarchy.</p> |
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WHAT A CELL HOLDS

≤ 2 wk

Install to running on your floor, not months of integration

±0.05 mm

In-hand placement for fit- and safety-critical parts

100%

Inspection on every part — checked, not sampled

Representative configuration. Final specs are issued with the proposal.

04 Working with us

FROM YOUR PART TO A QUALIFIED CELL, IN ~TWO WEEKS ON-SITE

A · SCOPE & PO

We start with your part

We work from your part, volumes, takt, and the line you'd deploy on. A short scoping engagement confirms fit, defines acceptance criteria, and puts a fixed scope and price in writing — capital purchase and robotics-as-a-service, side by side.

C · ON-SITE CONFIGURATION

It arrives pre-built

The qualified cell shows up ready. On-site work is tuning, not assembly: under two weeks to integrate with your line, MES/ERP, and safety, followed by a supervised run on real product.

B · PRE-BUILD AT RELLING HQ

We build & qualify it first

We build the cell on our own production floor and run it against your parts until it meets the acceptance criteria. The trial-and-error happens here, not on your line — so what ships is already proven.

D · ACCEPTANCE & FIRST UNIT

Proven, then handed over

We run supervised until your safety engineer signs off and the cell hits its numbers. Your technicians operate it day to day; maintenance and software updates are covered.

05 Let's talk

We started Relling to help this country make more of what it needs. If you have a task that's hard to staff or hard to automate, send it over — we'll tell you straight whether a cell fits, and scope it if it does.

Talk to us: jai.relan@rellingsystems.com · rellingsystems.com

EXCEPTIONAL ENGINEERING, TEAM FROM

