



ENGINEERING-FIRST AUTOMATION

CAPABILITY STATEMENT

Barcodes • Custom Vision • Robots Assist • Tunnels/Towers • Data & Tracking • Pack & Track • Watch Dog

SSI builds practical vision and workflow verification systems for real factory environments—focused on stable inspection, supportable integration, and clearly defined acceptance criteria. Our systems are engineered around real production constraints such as throughput, part presentation, and line integration. We specialize in barcode and 2D code verification, custom vision platforms, robotic assist applications, and modular Vision Tunnel and Vision Tower architectures. SSI also integrates labeling units, weigh checkers, and X-ray systems into cohesive production workflows, tying pass/fail logic, reject handling, and data tracking into a unified controls structure designed for reliability and long-term supportability.

COMPANY SNAPSHOT

Headquarters: Rockford, IL
Phone: 815.315.0863
Sales: sales@ssi-co.com
Hours: Mon–Fri 8am–4:30pm (Central)
Web: ssi-co.com

BARCODES & VERIFICATION

- Barcode/QR/DataMatrix reading + verification (as scoped)
- OCR/text and print verification (as required)
- Mismatch handling: alarm, stop, reject, or log-only

CUSTOM VISION SYSTEMS

- Presence/absence, label and print checks
- Inspection/measurement options (2D/3D as feasible)
- Lighting/optics configured for stability on the floor

TUNNELS & TOWERS

- Vision Tunnel: multi-side inspection in continuous motion
- Vision Tower/Stand: compact single-face inspection
- Scales from targeted verification to full coverage

DATA & TRACKING

- Pass/fail logging with timestamps
- CSV export; optional database/MES hooks
- Optional image/code record storage for audits

LINE INTEGRATION

- Integrate **labeling units**, **weigh checkers**, and **X-ray**
- PLC/HMI handshaking, interlocks, and workflow logic
- Reject workflows + confirmation options (as scoped)

ROBOTS ASSIST

- SCARA and 6-axis applications
- Pick/place, transfer, repetitive task automation
- Vision-guided where needed

PACK & TRACK

- Guided packing with verification before completion
- Verify via barcode, weight, and/or vision (as scoped)
- Traceability options for audits and quality records

WATCH DOG

- Traveler/work-order driven size/weight verification
- Prevents wrong part/variant packing
- Clear operator feedback + standard logging

WHY SSI

Reliability over flash. SSI builds systems that integrate cleanly, improve quality, and stay supportable—with direct engineer communication and a long-term support mindset.



CAPABILITY STATEMENT | DETAILS

Vision platforms • Workflow verification • Line integration • Data and traceability options

TECHNICAL CAPABILITIES

Vision platforms

- Vision tunnels and towers/stands for controlled inspection zones
- Custom inspection routines tied to acceptance criteria

Barcodes + verification

- 1D/2D code reading and verification • code string capture
- OCR/text and print verification (as scoped)

Data & tracking

- Pass/fail logging + timestamps • CSV export
- Optional database/MES hooks • optional image/code record storage

Packaging line integration

- Labeling units • weigh checkers • X-ray systems
- PLC/HMI handshakes • interlocks • reject workflows + confirmation options

Robots assist

- SCARA and 6-axis • pick/place/handling • vision-guided where needed

SOLUTION PLATFORMS

- Vision Tunnel (multi-side inspection)
- Vision Tower / Vision Stand (single-face inspection)
- Easy Reader Control Console (barcode/2D verification)
- Pack & Track Station (guided packing verification)
- Watch Dog Station (traveler-driven size/weight verification)

DIFFERENTIATORS

- Clear requirements and acceptance criteria up front
- Reliability-driven design decisions (supportable on the floor)
- Integration that matches real constraints (space, throughput, utilities)
- Practical commissioning support and long-term support mindset
- Real engineers, direct communication, clear ownership

FACILITIES

Inspection & Vision Systems Facility — 3631 Mansfield St, Rockford, IL 61109

Manufacturing Facility — 3610 Mansfield St, Rockford, IL 61109

If you're not sure which starting point fits, email sales@ssi-co.com or call 815.315.0863.

Next step: Send a short description + photos + acceptance criteria • Request a Quote