

Line-Side Printing

Microsoft Vision AI-powered shipping accuracy. Automates unit counting, weight verification, and label generation at the point of packing — an extension of the Tressel™ shipping workflow.

KEY BENEFITS

- ✓ Multiple ways to count parts: Vision AI, weight scale, and manual
- ✓ Microsoft Vision AI for accurate visual unit counting
- ✓ Vibration Value compensation for accurate scale readings
- ✓ Parts Variance calculation for accurate shipping weights
- ✓ One-Click Printing generates all shipping documents
- ✓ Serial Number Hold for units with quality issues
- ✓ Pallet/Case Search for full shipment history
- ✓ Fully integrated with the Tressel™ shipping workflow

THE CHALLENGE

The packing process is one of the most manual, error-prone activities in order fulfillment. Someone has to count units by hand, verify weights, print the right labels, and match everything to the shipment. Every error at this stage creates chargebacks, returns, and customer complaints. Environmental factors like vibration from nearby equipment or minor weight variances between parts in the same lot make simple weight-based verification unreliable. In high-volume operations, these errors add up fast.

THE SOLUTION

Line-Side Printing (LSP) is an extension of our Tressel™ shipping workflow product. It eliminates manual counting errors by using Microsoft's Vision AI to visually count units inside shipping containers, a weight scale system with Vibration Value and Parts Variance compensation for accurate readings, and one-click label generation for every shipment. Your packers focus on packing. LSP handles counting, weight verification, labeling, and documentation.

HOW IT WORKS

- 1. Set Up** — Train the Microsoft Vision AI to recognize your part numbers and their associated dimensions.
- 2. Pack** — Products are packed into shipping containers as normal at your packing station.
- 3. Count & Verify** — Vision AI camera or weight scale automatically counts and verifies the units inside each container.
- 4. Print** — One click generates the customer-formatted shipping label with a unique serial number, ship-to address, and label specifications.

KEY FEATURES

Microsoft Vision AI

Camera-based unit counting that visually identifies and accurately counts products inside shipping containers, reducing manual effort and human error.

One-Click Printing

Single keystroke generates all required shipping documents, including labels with unique serial numbers, ship-to addresses, and customer-specific formatting.

Serial Number Hold

Place specific serialized units on hold to prevent shipping during quality issues or recalls. Scanners won't process held units until the issue clears.

Smart Weight Scale System

Weight-based verification with Vibration Value calculation (compensates for noise from nearby equipment) and Parts Variance calculation (accounts for minor part-to-part weight differences).

Pallet/Case Search

Search past pallets and cases to see content breakdowns and full activity history. Track what shipped, when, and to whom.

Repack & Build

Provides step-by-step instructions for repacking products from one container to another when miscounts or quality issues require it.

WHY ACCLIMATE

■ Solution-Oriented

Operating since 2004 with deep specialization in shipping accuracy, packing automation, and shop-floor workflows.

■ One Expert Away

Support from engineers with 25+ years of practical experience who understand shop floor realities.

■ Bespoke Approach

We customize LSP to your packing line, part types, and label requirements instead of forcing a standard template.

■ Growth Partner

Scales with your packing volume and product complexity, not against it.

ABOUT ACCLIMATE

Acclimate Technologies helps companies **Get Integrated, Get Automated, and Get Empowered**. For 22+ years, we've added resilience to the value chain through integration, business process automation, and managed business solutions. We deliver Clarity, Reliability, and Partnership to mid-sized and global companies across 6 industry solutions because we know your data matters.

TALK TO AN EXPERT

Ready to see how Line-Side Printing can work for you?



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