

How Tension's SLAM Solution Helped Kredo, Inc. Increase Throughput by 300% During Peak Season

About Tension Packaging & Automation

Tension Packaging & Automation is a global leader in complete packaging and automation solutions. Specializing in a wide variety of results-driven processes, we offer customers expertise in project design, machine development and software integration. Our broad support for automation includes manufacturing, installation, equipment, consumables, robotics and full life-cycle service and support.

We are known as automation solution specialists for eCommerce and pharmacy — helping customers optimize productivity.



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“This solution has dramatically increased our throughput in shipping. Our warehouse has been able to work shorter shifts, process more packages and keep up with the orders coming in throughout our busy season. We increased our shipping throughput by 300%.”

**Matt Rutledge,
Chief Technology Officer at Kredo**

Growth & Impact



**Achieved a
low error
rate of
0.13%**



**300%
increase in
package
throughput**



**Ability to
process 15
more
packages
per minute**

How Tension's SLAM Solution Helped Kredo, Inc. Increase Throughput by 300% During Peak Season

The SLAM solution dramatically increased Kredo's package throughput, and warehouse associates were able to work shorter shifts, process more packages and keep up with order volumes.



The Challenge

Historically, business at Kredo had grown steadily over time. However, in 2022 a sudden surge in business resulted in an order increase of 130%, posing a challenge for the Kredo team to process packages in a timely manner. Manual processes and label application solutions that had worked in the past were no longer effective in meeting the demand. Kredo needed an automated solution that would allow it to process a greater number of packages to keep up with its growth, especially during peak order season from August through November.

After an exhaustive search and several proposed solutions, Kredo chose to partner with Tension Packaging & Automation because of its consultative approach, expert insights and creative problem solving.

The Solution

Tension proposed a SLAM (scan, label, apply, manifest) solution for Kredo consisting of a zone-powered conveyor system that weighs and provides dimensions of the package, prints a shipping label and automatically applies the label to the box.

Tension Packaging & Automation proposed the SLAM solution to help Kredo save valuable warehouse space while providing the functionality it needed in a fast, efficient shipping solution.

- **Accuracy, Integrated:** Tension's SLAM solution builds accuracy into customers' processes through quality checks on customer labels. After the label is applied to a package in the SLAM line, an overhead scanner verifies the label is on the appropriate package. If the label is correct, the package is cleared to travel toward the dock and loaded on a truck. If the label is incorrect, the package is rejected and sent to an operator for further evaluation.
- **Expert Consultation:** From initial site surveys all the way to installation, Tension's engineers approached the SLAM solution with consultative expertise to ensure each system is designed ergonomically, with the greatest impact on warehouse productivity and the smallest footprint possible. The entire system was constructed and tested prior to installation, ensuring the design specifications were on target and the system operated properly.
- **World-Class Service and Support:** Tension's service and support team installed the SLAM solution according to precise measurements and locations chosen by Kredo during the initial site survey. Once installed, the SLAM line was further tested and refined by the Tension team. Tension's service team was available for on-call troubleshooting and support after Kredo's go-live date.

"We were most impressed with the team from Tension Packaging & Automation. They tailored the solution specifically for us in a way that was responsive, supportive, knowledgeable and efficient."

Matt Rutledge, Chief Technology Officer at Kredo