

Mission Possible: Unlocking 3PL Warehouse Potential Through AI and Automation



Interview with
Jay Strother
President & CEO, IWLA

How have warehouse automation technologies evolved in recent years, and what are the key drivers behind these changes?

Warehouse automation technologies are key in creating a robust, efficient supply chain. But those technologies can vary from niche investments by large corporations to necessary tools for companies of all sizes. Members of the International Warehouse Logistics Association (IWLA) – the only trade association for the third-party warehousing industry – turn to leading-edge technologies to enhance operational efficiency and increase throughput.

According to IWLA President & CEO Jay Strother, the landscape has shifted dramatically in a relatively short period. “It wasn’t too long ago that only the largest companies could afford to implement AI and robotics technologies,” Strother explains. “But that has changed drastically. As AI and robotics tools become more accessible and affordable, warehouse logistics companies of all sizes have been taking advantage – and helping their customers drive more to the bottom line.”

Today, automation is no longer limited to massive capital expenditures. Some IWLA members started small—implementing incremental automation solutions such as robotic pallet jacks or AI-powered inventory tracking—while others went all in, fully overhauling their warehouse operations with end-to-end automated systems. In fact, IWLA hosts a warehouse-technology-focused trade show and educational event each fall. This forum allows warehouse professionals to experience the latest tech while hearing success stories from their peers.

Major industry events like Manifest or Pro-Mat (and even IWLA’s own convention) clearly illustrate this transformation. Cutting-edge automation and robotics solutions are tailored expressly for the third-party logistics (3PL) sector. The number

of AI-driven companies offering warehouse-focused tools has grown rapidly, and many IWLA members are actively embracing these innovations.

Modern warehouse automation spans a broad spectrum. Advanced warehouse management systems (WMS) can now analyze historical data, recognize patterns, and forecast future fulfillment needs. This predictive capability allows 3PL providers to stay ahead of demand, better manage labor, and streamline logistics. At the same time, physical automation—from robotic conveyor belts to autonomous forklifts and pallet movers—has drastically improved operational speed and accuracy.

The primary force driving these changes is the highly competitive nature of the 3PL industry. In an environment where customers expect faster delivery times, flawless order accuracy, and real-time inventory updates, the ability to adopt new technology quickly becomes a key differentiator. Companies that lag behind in automation often lose ground to more technologically advanced competitors.

How can automation technologies in warehouses improve Inventory Accuracy and reduce errors in Order Fulfillment?

One of the most immediate and measurable benefits of warehouse automation is improved inventory accuracy and reduced errors in order fulfillment. Traditional manual processes are inherently prone to mistakes—miscounts, misplaced items, and incorrect shipments are all too common. Automation technologies provide real-time monitoring and error detection that drastically reduce these issues.

Automated systems can detect flaws early in the fulfillment process, allowing companies to take corrective action before errors escalate. For instance, an automated

picking system can alert warehouse staff if an item is picked from the wrong location, enabling instant correction. These early interventions not only prevent costly shipping mistakes but also reduce waste and preserve customer trust.

“Warehouse automation allows modern 3PL warehouses to identify issues quickly and resolve them efficiently,” says Strother. “IWLA members that embrace technology can save thousands of dollars in avoided errors, leading to significantly improved customer satisfaction.”

Inventory accuracy is especially critical in the warehouse logistics industry, where providers manage stock for multiple clients across various locations. Automation enables precise tracking of inventory levels, reducing the risk of overstocking, or duplicate orders. Barcode scanning, RFID technology, and automated data syncing across platforms help maintain a consistent and accurate record, ensuring that customers receive exactly what they ordered.

Furthermore, as IWLA members continue to implement these technologies, they are not only improving accuracy but also optimizing the entire fulfillment process. This includes faster picking and packing, streamlined shipping operations, and enhanced communication between systems and staff. In many cases, automation can even integrate with customer-facing systems to provide real-time order updates, boosting transparency and trust.

Warehouse automation is no longer a luxury but a necessity in the modern logistics landscape. Its rapid evolution and increasing accessibility have allowed IWLA members of all sizes to harness the benefits of technology. From reducing operational errors to enhancing inventory accuracy and customer satisfaction, automation is playing a transformative role in how 3PL providers operate and compete in a fast-moving industry.