



YUSEN LOGISTICS SUCCESS STORY

Transforming 3PL Warehouse
Operations with Wearable Technology

2025



Executive Outline

01

Introduction:
Yusen Logistics

02

The Hidden
Costs of
Operational
Inefficiency

03

From Manual
Operations to
Intelligent
Automation

04

Measurable
Business
Impact

05

A Strategic
Step Towards
Industry 5.0



01

YUSEN LOGISTICS PROFILE

Navigating High-Volume 3PL Complexity

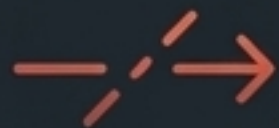
Yusen Logistics operates as a premier Third-Party Logistics (3PL) provider, orchestrating complex warehousing and distribution networks for a diverse global clientele. In the high-velocity 3PL sector, the speed and accuracy of order fulfillment are not just operational metrics—they are critical competitive differentiators.

To maintain peak service quality and meet escalating client demands, Yusen required a paradigm shift in their order picking operations—moving away from legacy systems to a solution that guarantees continuous, high-speed, and error-free throughput.

THE HIDDEN COSTS OF OPERATIONAL INEFFICIENCY

The Bottleneck of Legacy Handheld Scanners

Order picking operations at Yusen's Turkey facilities were severely constrained by the reliance on conventional handheld barcode scanners. This legacy hardware enforced a rigid, fragmented workflow.



Fragmented Workflows

The continuous "pick up, scan, put down" cycle prevented true dual-handed operations, artificially inflating cycle times and bottlenecking throughput.



Quality & Error Risks

Rushed, manual scanning environments left room for critical human errors. Mis-picked items directly threatened inventory accuracy and client trust.



Ergonomic Strain

The repetitive physical burden of gripping and manipulating bulky devices limited worker mobility and increased the risk of repetitive strain injuries.

FROM MANUAL OPERATIONS TO INTELLIGENT AUTOMATION

Unlocking Continuous Motion with VEGA-X

To eliminate operational friction, Yusen Logistics deployed Thread In Motion's VEGA-X—an Industry 5.0 wearable computing and scanning solution designed for pure ergonomic efficiency.



Miniaturized Computing: Replaces bulky handhelds with an ultra-lightweight, glove-embedded terminal.

Unrestricted Mobility: Enables 100% hands-free operations, allowing workers to grasp, lift, and move products without interruption.

Shift-Long Reliability: Features hot-swappable batteries, ensuring zero downtime across intensive logistics shifts.

03

SEAMLESS INTEGRATION & FLAWLESS EXECUTION

Real-Time Data and Digital Poka-Yoke

The physical hardware upgrade was paired with deep system connectivity, transforming every warehouse operator into a **fully integrated node within the Warehouse Management System (WMS)**.

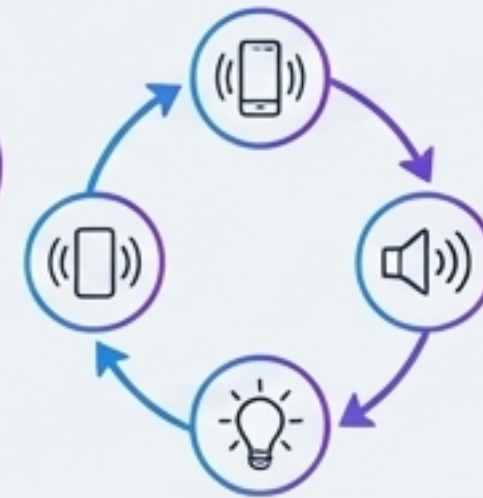


Real-Time WMS Synchronization



VEGA-X communicates instantly via Wi-Fi/Bluetooth. Every scan updates physical inventory records in real-time, eliminating data latency and ensuring absolute stock precision.

Proactive Error Prevention



Utilizing a digital Poka-Yoke multi-modal feedback loop, the system catches mis-picks at the source. The device triggers instant alerts:

- Haptic (Vibration)
- Acoustic (Sound)
- Optical (LED Flashes)

MEASURABLE BUSINESS IMPACT

Driving Speed, Accuracy, and Safety

The implementation of VEGA-X yielded immediate and sustainable operational dividends, fundamentally upgrading Yusen's fulfillment capabilities.

+30%

Picking Velocity

Hands-free execution eliminated micro-delays, resulting in a 30%+ surge in total picking speed and overall facility throughput.

Near-Zero

Error Rate

Real-time multi-modal alerts eradicated mis-picks at the source, drastically reducing rework and downstream quality issues.

2-Week

Deployment

Seamless IT integration allowed for rapid deployment, fully equipping over 50 warehouse staff with minimal training overhead.



Enhanced OHS

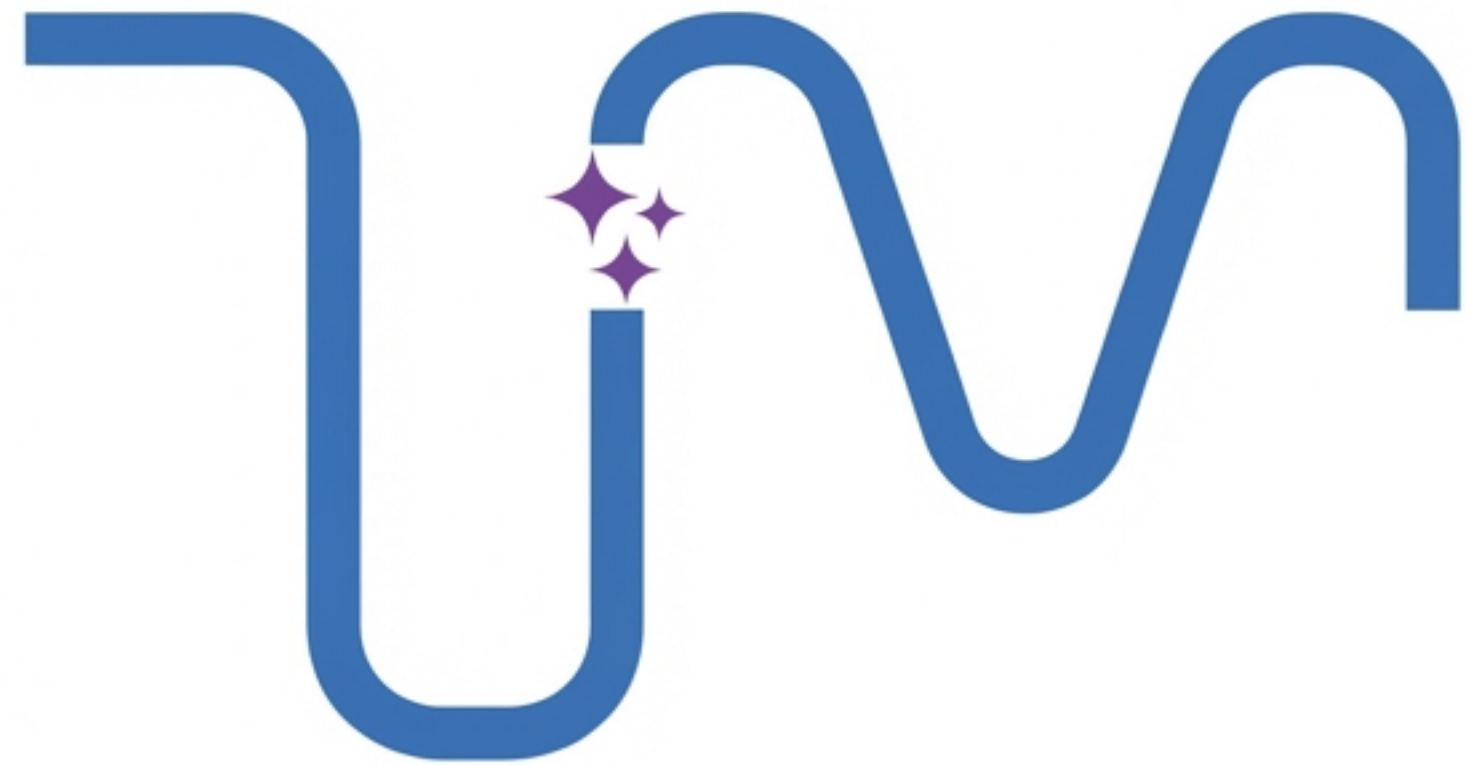
Removing heavy handhelds drastically reduced physical fatigue and wrist strain, establishing a safer, more ergonomic baseline.

A STRATEGIC STEP TOWARDS INDUSTRY 5.0

Human-Centric Innovation at Scale

The successful transformation at Yusen Logistics represents more than an isolated hardware upgrade; it is a definitive step into Industry 5.0. By prioritizing human-centric technology, Yusen has successfully **bridged the gap between human workforce agility and digital precision.**

This rapid, high-ROI deployment establishes a scalable blueprint for operational excellence. Yusen Logistics is now uniquely positioned to handle higher fulfillment volumes with unparalleled accuracy, proving that ergonomic innovation is a primary driver of supply chain resilience.



GET IN TOUCH WITH US

Website

www.threadinmotion.com

Phone

+44 20 4587 4397

E-mail

info@threadinmotion.com

HQ address

7 Henrietta Street, WC2E 8PS, London,
United Kingdom