



ECZACIBAŞI SUCCESS STORY

Transforming High-Volume FMCG Logistics
with Hands-Free Automation

2025

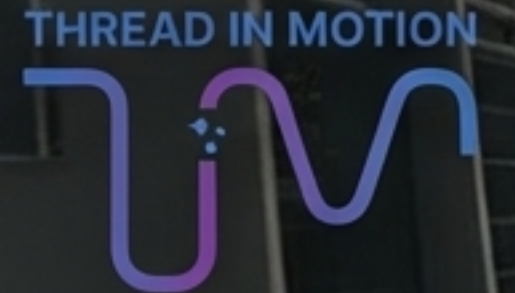


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INTRODUCTION

ECZACIBAŞI SUCCESS STORY

Eczacıbaşı is a major player in the fast-moving consumer goods (FMCG) sector, operating as a key subsidiary of the Eczacıbaşı Group in Turkey. The company is a leading manufacturer of household hygiene and cleaning products, including high-demand items like toilet paper and paper towels.

Due to the nature of its products, Eczacıbaşı manages incredibly high-volume logistics operations. The post-production warehousing and distribution processes require the constant handling of bulky, multi-pack goods (such as 6-packs and 12-packs).

Speed, precision, and workforce agility within these distribution centers are critical to maintaining the supply chain velocity expected of a top-tier FMCG manufacturer.

HIDDEN COSTS OF OPERATIONAL INEFFICIENCY

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Historically, logistics operators relied on traditional handheld barcode terminals to track warehousing and distribution workflows. For an operation handling large-volume, bulky goods, this legacy technology created severe bottlenecks.



Compounding Time Losses

3 to 4 seconds per scan

This interrupted workflow introduced a micro-delay of 3 to 4 seconds per scan. Over thousands of daily picks, these lost seconds accumulated into massive productivity deficits.

Ergonomic Strain

One-handed terminal operation combined with repetitive, interrupted lifting motions accelerated worker fatigue and increased the risk of repetitive strain injuries.

Operational Disruption

The manual juggling of devices and heavy products compromised Occupational Health and Safety (OHS) standards and slowed throughput.

The facility required a solution that could digitize the workflow without encumbering the physical workforce.

FROM MANUAL OPERATIONS TO INTELLIGENT AUTOMATION

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Deploying VEGA-X Wearable Technology

To eliminate the friction of legacy terminals, Eczacıbaşı deployed **VEGA-X smart-glove scanners**. Operating as miniature, wearable computers mounted on the back of the hand, the VEGA-X completely untethered the workforce, enabling a 100% hands-free operational model.

1

Poka-Yoke Error Proofing

- **Instant Validation:** Optic, acoustic, and haptic feedback immediately confirms scans.
- **Proactive Correction:** Gloves instantly alert operators to incorrect transactions, preventing errors on the spot.

2

Advanced Ergonomics

- **Weight Distribution:** Lightweight mass is distributed across the back of the hand.
- **Freedom of Movement:** Operators handle bulky multi-packs safely with both hands, drastically reducing wrist strain and fatigue.



SEAMLESS ENTERPRISE INTEGRATION

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Real-Time WMS Synchronization:

Hardware is only as effective as the data network supporting it. The VEGA-X deployment was paired with custom software integration, directly bridging the wearable devices with Eczacıbaşı's existing Axata Warehouse Management System (WMS).

Zero-Friction Workflow:

- **Live Data Flow:** Scan data synchronizes with the WMS in real-time, eliminating latency between physical material movement and digital inventory records.
- **Instant Instructions:** Operators receive immediate, system-verified task confirmations directly to their wearable devices, keeping established workflows fluid.

Rapid Deployment Scale:

The entire digital transformation was executed without disrupting active operations.

- **Scale:** Fleet of 20+ VEGA-X units deployed.
- **Speed:** Fully integrated and operational within just 2 weeks.
- **Impact:** Plug-and-play architecture allowed Eczacıbaşı to realize immediate productivity gains.

RESULTS & OPERATIONAL GAINS

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The transition to VEGA-X smart gloves yielded immediate, measurable improvements across Eczacıbaşı's supply chain, transforming logistics efficiency while establishing new benchmarks for worker safety.

**3
SECONDS**

Saved Per Scan

Eliminating the "pick-up, put-down" cycle stripped wasted motion from the process, compounding into massive time savings across thousands of daily shifts.

**10%
BOOST**

**In Efficiency &
Throughput**

Faster, hands-free scanning accelerated the overall pace of order fulfillment, unlocking higher daily capacity without expanding the workforce.

**~75%
REDUCTION**

**In Operational
Errors**

Driven by real-time WMS validation and multi-sensory error alerts, picking and shipping accuracy approached 100%.

**ELEVATED
OHS**

**Occupational
Health & Safety**

Total hands-free mobility improved lifting posture for bulky items, reducing drop risks and minimizing repetitive physical strain.



A STRATEGIC STEP TOWARDS SMART LOGISTICS **ECZACIBAŞI SUCCESS STORY**

Through the adoption of VEGA-X wearable technology, Eczacıbaşı successfully modernized one of the most physically demanding segments of its supply chain. By prioritizing workforce enablement through hands-free automation, the company solved immediate ergonomic bottlenecks while simultaneously upgrading data accuracy.

This flawless integration of hardware, software, and human capital reflects a broader strategic vision. As industrial warehouses continue to modernize, Eczacıbaşı's deployment serves as a definitive blueprint: proving that intelligent wearables are not just incremental tools, but fundamental productivity game-changers for high-volume logistics.

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