Warehouse Management System

A practical warehouse workflow solution for standard stock control, scanning, and fulfillment operations.

Visual warehouse & location management	Visual product identification	AI warehouse assistant

How it works

Inputs

- Orders
- Inventory data
- Resources
- Rules

Processing

1. Receive, scan & verify
2. Put away & assign location
3. Store & track live inventory
4. Pick, pack & ship fulfill orders
5. Monitor & control track tasks & exceptions

Outcomes

- Inventory & location updated
- Fulfillment status tracked
- Exception alerts raised
- Demand forecasting

www.tmainnovation.com
+84 28 3997 8000
contact@tmainnovation.com

Key capabilities

- Multi-warehouse & layout management
- Real-time inventory visibility
- AI-powered product search
- Mobile workforce productivity
- Natural language inventory query

Applications

Retail & e-commerce

- High-velocity stock across stores & online
- Synchronized stock & order flow
- Unified omnichannel fulfillment

Manufacturing & distribution

- Track raw materials & work-in-progress
- Manage finished-goods inventory
- Coordinate factories & distribution centers

3PL & logistics

- Multi-client tracking
- Billing by store & transaction
- Per-client KPI & SLA dashboards

Use cases



Real-time goods receiving & put away

- Mobile scanning, auto PO matching
- AI-suggested storage locations
- Inventory updated on confirmation



Smart order picking & fulfillment

- FIFO/LIFO pick lists
- Scan-based verification
- Pack-station label printing, ERP sync



Multi-warehouse stock transfer & rebalancing

- Unified visibility, AI flags stockout risk, system recommends transfer plan with source & quantity



Lot, serial & expiry tracking (FEFO)

- FEFO picking by default
- Automated expiry alerts
- Full upstream/downstream traceability for recalls



Natural language warehouse query

- Ask the system to find order status, stock location, or pending tasks

www.tmainnovation.com +84 28 3997 8000 contact@tmainnovation.com

Business benefits

Inventory accuracy

- Real-time stock visibility
- Fewer counting errors
- Better audit traceability

Scalability

- Modular architecture, add features as needed
- Unlimited warehouses & SKUs
- Cloud-ready expansion

Efficiency

- Automated warehouse workflows
- Faster picking & packing
- Higher staff productivity

Decision-making

- AI-driven demand forecasting
- Live KPI dashboards
- Proactive stock alerts

Vietnam: +84 28 3997 8000
North America: +1 844 224 4188
Europe: +33 7 44 77 49 24
Australia: +61 411 276 342
Japan: +81 50 5490 9867

Email: contact@tmainnovation.com

Website: www.tmainnovation.com