



Operational Assessment Report

Reclaiming Capacity, Throughput, and Efficiency within Your Four Walls.



ORCHESTRATING THE FUTURE OF AUTOMATION



Moving Beyond the Hardware Trap

Parts distribution is distinct from traditional retail or generic fulfillment. You face extreme SKU proliferation, highly variable parts geometry (from fragile electronic components to heavy, industrial-weight items), and stringent customer service SLAs demanding rapid turnarounds.

When facilities hit a throughput or storage bottleneck, the standard vendor response is predictable: buy more steel, extend your footprint, or deploy multi-million dollar fixed-path linear conveyors. But forcing generic hardware into a legacy layout without data validation compromises your capital efficiency and long-term agility.

At Hy-Tek Intralogistics, we look at the engineering reality. Guided by our core philosophy, "We don't guess, we test," our Strategic Services team uses rigorous

Lean and Six Sigma methodologies to map your actual value stream. We de-risk your investments by modeling, prototyping, and stress-testing your exact data parameters inside our 20,000 sq. ft. Innovation Lab before a single anchor bolt is placed on your facility floor.

This resource kit provides an overview of our operational assessment framework alongside three strategic blueprints that demonstrate how we solve systemic friction points to unlock hidden capacity and future-proof your supply chain.

Ray DeMelfi

Senior Vice President – Strategic Services
Hy-Tek Intralogistics

CORE FRAMEWORK:

The Hy-Tek Operational Assessment

A Hy-Tek Intralogistics Operational Assessment is your comprehensive roadmap to a streamlined, optimized distribution network. By evaluating your current processes and identifying concrete improvement opportunities, this assessment uncovers immediate potential for greater efficiency and capacity within your existing facility—all while reducing operational costs and supporting your labor and safety goals.

KEY BENEFITS OF A WAREHOUSE OPERATIONAL ASSESSMENT

Identify Immediate Efficiency Gains: Uncover low-CAPEX opportunities for process improvements that enhance overall facility efficiency, maximize existing storage capacity, and mitigate labor scarcity.

Optimize Equipment & Automation: Evaluate material handling equipment (MHE), advanced software layers, and robotics solutions that offer a robust return on investment and smooth your physical material flow.

Drive Continuous Improvement: Address your specific operational friction points with a phased strategic roadmap spanning labor management systems, WMS/WES enhancements, SOP development, and network optimization.

WHAT YOUR FACILITY GAINS

Comprehensive Assessment: Get a complete or targeted view of your operation to systematically address wasted actions, building cube utilization, administrative lag, and systemic tracking support.

Actionable Solutions: Receive a tailored roadmap of actionable steps and technologies designed to maximize efficiency and boost long-term operational success.

Long-Term Support: Build a data-driven foundation for sustained, incremental improvements that adapt dynamically as your parts distribution network grows.

Pharmaceutical Wholesaler Operational Assessment

STRATEGIC BLUEPRINT

OBJECTIVE:

Identify immediate, near-term, and long-term operational improvement opportunities to enhance Pharmaceutical Wholesaler's efficiency, scalability, and resilience amidst ongoing supply chain pressures, including tariff impacts.

KEY OBSERVATIONS



Strong customer-centric culture with operational adaptability.



Rapid growth trajectory demanding scalable solutions.



Opportunity to drive near-term cost savings and long-term network optimization.

OPPORTUNITY FRAMEWORK

IMMEDIATE QUICK WINS (0-3 MONTHS)

- Labor balancing between picking and packing to improve flow.
- Transition to padded mailers to cut transportation costs.
- Alleviate FedEx loading bottlenecks.

IMPACT: 10-25% productivity gains; immediate cost containment.

NEAR-TERM STRATEGIC ENHANCEMENTS (6-18 MONTHS)

- Migrate to batch cart picking to boost throughput.
- Deploy carton assembly or box-on-demand packing automation.
- Explore IntraOne WMS/WES to modernize infrastructure.

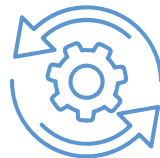
IMPACT: Extend current facility lifespan; build flexibility; enable scaling without large capital outlay.

LONG-TERM TRANSFORMATIONAL MOVES (18+ MONTHS)

- Strategic network planning: expansion vs. relocation analysis.
- Evaluate Goods-to-Person (G2P) automation.

IMPACT: Future-proof operations; mitigate tariff and labor risks; build cost-efficient resilience.

STRATEGIC ROADMAP



SHORT TERM

Implement Quick Wins + Launch pick/pack expansion.



MID TERM

Deploy Labor Management System, pilot automation, initiate vendor audit program.



LONG TERM

Finalize strategic network/technology plan, phase in automation.

EXECUTIVE TAKEAWAY

Hy-Tek's assessment delivers an actionable roadmap to drive immediate operational gains while constructing a resilient, scalable supply chain capable of navigating tariff pressures and future market shifts.

START FAST. BUILD SMART. SCALE STRONG.

NEXT STEPS

- 1** Confirm prioritization of immediate initiatives.
- 2** Engage Hy-Tek Strategic Services for planning support and explore IntraOne WMS/WES to modernize infrastructure.
- 3** Align leadership around 5-10 year network evolution strategy.

Ready to Future Proof your Supply Chain Network?

Hy-Tek Strategic Service Operational Assessments are the low-risk tool that helps power your results driven supply chain.



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Apparel Fulfillment Operational Assessment

STRATEGIC BLUEPRINT

OBJECTIVE:

Identify immediate process improvements, near-term layout enhancements, and long-term transformational automation technologies to maximize apparel distributor's building cube utilization, reduce work-in-process (WIP), and future-proof operations for high-growth trajectories.

KEY OBSERVATIONS



Strong 5S Culture: Possesses an exceptional operational foundation utilizing Gemba boards and Kaizen events.



Quality & Service Focus: Intense attention to detail verified throughout the multi-step decoration process.



High-Growth Trajectory: Rapid scaling requires supply chain standardization to eliminate operational friction.

OPPORTUNITY FRAMEWORK

IMMEDIATE QUICK WINS (0-3 MONTHS)

- **VLM Optimization:** Eliminate 20+ second task interface delays to instantly boost pick/put-away throughput.
- **Digital Signage:** Deploy facility-wide boards paired with Gemba to accelerate real-time communication.
- **Tunnel Rack Expansion:** Reconfigure existing bays above tunnels to instantly add 336 overstock pallet positions.

IMPACT: Low-cost capacity creation minimized administrative lag, and an immediate pick and put-away throughput boost within the existing footprint.

NEAR-TERM STRATEGIC ENHANCEMENTS (6-18 MONTHS)

- **VNA Storage Transition:** Convert select rack rows into a Very Narrow Aisle layout to reclaim 27,416 sq. ft.
- **Single-Piece Flow:** Right-size order batching to establish single-piece flow and cut pick-to-ship lead times.
- **Engineered Standards & LMS:** Implement a Labor Management System for real-time visibility and accurate staff planning.
- **QA Process Optimization:** Move to operator self-checks and sampling to eliminate redundant checking bottlenecks.

IMPACT: Major capacity expansion, minimized staging footprints, balanced department thresholds, and data-driven workforce optimization.

LONG-TERM TRANSFORMATIONAL MOVES (18+ MONTHS)

- **Mezzanine Cube Maximization:** Build structural mezzanines over floor-level decoration to maximize building cube.
- **Layout & Flow Redesign:** Rework facility topography into a unidirectional flow from receiving straight to shipping.
- **Goods-to-Person (G2P):** Integrate cubic storage robotics (Exotec/HAI) for automated unit picking and order buffering.
- **Packaging Automation:** Deploy auto-baggers and custom box-on-demand to slash corrugate waste by 29% and lower freight costs.

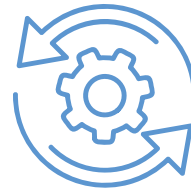
IMPACT: Future-proof operations; mitigate tariff and labor risks; build cost-efficient resilience.

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STRATEGIC ROADMAP



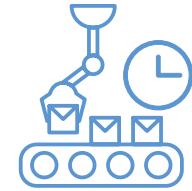
SHORT TERM

Execute Quick Wins
Scope Single-Piece Flow
Map Value Stream Data



MID TERM

Launch LMS & Standards
Transition to VNA Storage
Reorient Pack Stations



LONG TERM

Deploy G2P Automation
Build Out Mezzanines
Install Packaging Automation

NEXT STEPS

1

Reconvene Strategy Session: Review blueprint to align, prioritize, and adjust the roadmap against CAPEX/OPEX goals.

2

Initiate SCNO Modeling: Engage engineering to map flow updates, block plans, and after-tax IRR on VNA, mezzanine, and G2P tech.

3

Deploy LMS Demonstrations: Evaluate software vendor options and define the data prerequisites for engineered standards.

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Industrial Distributor Operational Assessment

STRATEGIC BLUEPRINT

OBJECTIVE:

Deploy Lean/Six Sigma methodologies to maximize Industrial distributor's facility footprint efficiency, remove manual transfer bottlenecks, and build a scalable framework for high-density automation.

KEY OBSERVATIONS



Passionate Corporate Culture: Exceptional company alignment and operational pride reflected instantly through facility branding and high team tenure.



Hyper Customer Focus: Business decisions and day-to-day warehouse logistics explicitly revolve around a client-first service mentality.



Aggressive Growth Intent: Executive leadership is actively aligned to expand market footprints rapidly and standardize systems purposefully.

OPPORTUNITY FRAMEWORK

IMMEDIATE QUICK WINS (0-3 MONTHS)

- **Wearable RF Scanning:** Replace traditional handheld devices with ring or glove type scanners to boost hands-free picking productivity.
- **Location Sizing Analysis:** Audit current pick profiles against actual inventory depth to compress the active picking footprint.
- **Double Rider Pallet Jacks:** Expand multi-store batch picking across two pallets to drop high-bay travel distance per order.
- **Transfer Volume Root Cause Analysis:** Audit cross-facility transfer volume trends against standard DC replenishment cadence to cut excess stock touches.

IMPACT: Immediate optimization of pick/replenishment touchpoints, heightened dock floor organization, and zero-CAPEX capacity discovery within active picking modules.

NEAR-TERM STRATEGIC ENHANCEMENTS (6-18 MONTHS)

- **Slot3D Optimization Software:** Migrate from manual spreadsheets to an interactive AutoCAD slotting package to continuously lower picking travel cost.
- **Zone Divert Pick-and-Pass:** Install mechanical zone diverts on existing conveyors to route totes exclusively to zones requiring picks.
- **Case Pick Conveyor Slapper Lane:** Integrate high-bay case picking directly into primary conveyor flows via a dedicated belted slapper line.
- **Demand-Based Dynamic Replenishment:** Launch a live, reactive replenishment process during operational hours to flag stockouts before they hit pick queues.

IMPACT: High-density batch routing, complete elimination of manual tote consolidation steps, and synchronized case/each picking flows across modules.

LONG-TERM TRANSFORMATIONAL MOVES (18+ MONTHS)

- **Goods-to-Picker (GTP) Automation:** Supplement traditional picking modules with high-density automated cubic robotic storage to scale processing.
- **Automated Inbound & Transfer Sortation:** Deploy a flexible standalone loop or line sortation system to eliminate manual sorting for mixed store shipments.
- **Storeganizer Racking Optimization:** Suspend high-density, 3D hanging textile pockets within existing rack spaces to condense slow-moving SKUs.
- **Performance-Based Vendor Audit Program:** Deploy structured scorecard tracking for supplier compliance to execute automated inbound validation over time.

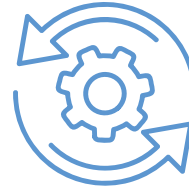
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STRATEGIC ROADMAP



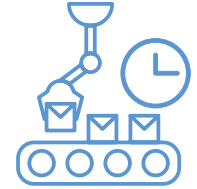
SHORT TERM

Location Size Analysis Improved
Pit Processing Equipment
Dock Floor Organization



MID TERM

Slot3D Software Rollout
Pick-and-Pass Diverts
Case Pick Module / Slapper lane



LONG TERM

Deploy GTP Automation
Inbound & Transfer Sortation
Implement LMS

NEXT STEPS

1

Launch Pick-and-Pass Engineering Design: Partner with engineering teams to produce specific equipment proposals for zone diverts and conveyance routing.

2

Coordinate Slot3D Technical Demo: Initiate profiling analytics alongside software experts to detail the data structure required to support automated warehouse slotting.

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LEARN MORE



The Hy-Tek Advantage

YOUR END-TO-END SUPPLY CHAIN AUTOMATION PARTNER

The best solutions start with listening. Whether you are optimizing a traditional warehouse or building a fully automated fulfillment center, Hy-Tek provides the pragmatic partnership required for tangible impact.

CONNECTING PEOPLE TO PRODUCTS — FASTER



Seamless Integration

End-to-End Expertise That Eliminates Risk. We unify your entire operation—from the foundational racking and high-speed conveyance to the advanced robotics and IntraOne™ software. Our holistic approach removes the friction of fragmented vendors, ensuring every component of your facility works in perfect harmony.



Scalable Solutions

Modular Technology That Grows With You. We don't just solve for today; we engineer for tomorrow. Our solutions utilize modular infrastructure and software that can be expanded or reconfigured as your business objectives evolve.



Proven Results

Real-World Testing in Our Innovation Lab. We turn risk into certainty by validating your unique workflow using your actual data and products in our Innovation Lab. This hands-on performance testing ensures your investment delivers the precise ROI and throughput your supply chain demands.



Strategic Partnership

Solutions Aligned with Your Goals. As your Trusted Advisor, we act as a pragmatic partner, not just a technology provider. We listen first, aligning every recommendation—from lifecycle support to network optimization—with your long-term business goals.



Ready to Future-Proof Your Parts Distribution Network?

Do not guess on your next capital investment. Let the data-driven experts at Hy-Tek Intralogistics unlock the hidden capacity, throughput, and efficiency within your four walls. Hy-Tek Strategic Service Operational Assessments are the low-risk tool that helps power your results-driven supply chain.

SCHEDULE YOUR PRE-ASSESSMENT DISCOVERY CALL TODAY

Take the first step toward true operational orchestration. Connect directly with our engineering and network consulting leadership to discuss your parts distribution facility's specific layout constraints, labor friction points, and growth targets.

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Scan or visit hy-tek.com/operational-assessment to sign up for your pre-assessment discovery call.

