Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 81.7%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse	Location	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	75.6%	2,283	1,811	96.2%	89.6%	Optimized
Distribution Center B	Dallas, TX	31.5%	1,355	1,539	95.8%	68.8%	Improvement Needed
Distribution Center C	Atlanta, GA	63.2%	2,716	2,042	98.8%	90.4%	Optimized
Distribution Center D	Los Angeles, CA	83.6%	2,826	2,727	98.3%	89.6%	Optimized
Distribution Center E	Newark, NJ	53.7%	2,103	3,118	95.1%	70.3%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-

picking system to improve accuracy to 99.8%

 • Upgrade WMS integration for real-time inventory visibility

 • Add automated sortation system for small package handling

 • Implement predictive analytics for demand-based staffing

 • Consider AS/RS system for high-velocity SKUs