Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 70.3%
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	39.9%	2,918	2,739	95.6%	85.4%	Optimized
Distribution Center B	Dallas, TX	49.1%	2,713	2,714	99.2%	66.5%	Improvement Needed
Distribution Center C	Atlanta, GA	69.1%	2,985	3,438	96.5%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.4%	2,833	2,227	98.7%	68.4%	Improvement Needed
Distribution Center E	Newark, NJ	87.0%	2,612	3,468	98.3%	63.7%	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