Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 73.0%
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	43.6%	1,247	1,844	97.5%	77.5%	Improvement Needed
Distribution Center B	Dallas, TX	72.3%	1,134	3,189	98.9%	93.6%	Optimized
Distribution Center C	Atlanta, GA	70.2%	2,203	3,274	98.4%	66.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	35.4%	2,351	3,683	97.4%	64.3%	Improvement Needed
Distribution Center E	Newark, NJ	48.1%	1,347	2,243	97.5%	62.7%	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