Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 73.6%
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	48.0%	2,749	3,808	98.1%	67.6%	Improvement Needed
Distribution Center B	Dallas, TX	99.0%	1,644	1,885	95.0%	79.9%	Improvement Needed
Distribution Center C	Atlanta, GA	75.2%	2,155	3,542	98.7%	71.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.7%	2,855	2,987	95.8%	82.9%	Optimized
Distribution Center E	Newark, NJ	76.1%	2,750	2,955	95.7%	66.1%	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