Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 66
Average Utilization: 72.9%
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	47.4%	2,730	3,076	95.7%	67.2%	Improvement Needed
Distribution Center B	Dallas, TX	49.4%	1,740	3,272	96.5%	71.6%	Improvement Needed
Distribution Center C	Atlanta, GA	53.3%	2,900	1,863	96.4%	70.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.9%	1,073	2,840	95.4%	62.3%	Improvement Needed
Distribution Center E	Newark, NJ	68.0%	2,989	3,954	96.5%	92.7%	Optimized

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