Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 21
Average Utilization: 74.0%
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	73.4%	2,107	3,283	95.4%	72.4%	Improvement Needed
Distribution Center B	Dallas, TX	74.6%	2,075	1,881	98.4%	65.8%	Improvement Needed
Distribution Center C	Atlanta, GA	33.1%	1,083	2,421	97.2%	70.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.1%	1,149	3,954	98.2%	86.1%	Optimized
Distribution Center E	Newark, NJ	72.7%	1,728	1,590	98.0%	75.8%	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