Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 74.6%
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	59.5%	2,557	3,504	96.9%	90.8%	Optimized
Distribution Center B	Dallas, TX	64.3%	1,605	2,564	99.5%	64.5%	Improvement Needed
Distribution Center C	Atlanta, GA	43.7%	2,904	3,294	95.4%	67.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.8%	2,485	3,949	98.6%	78.2%	Improvement Needed
Distribution Center E	Newark, NJ	73.1%	1,311	1,838	95.2%	72.0%	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