Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 68.1%
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	93.0%	2,568	1,959	98.5%	66.7%	Improvement Needed
Distribution Center B	Dallas, TX	54.7%	2,563	1,843	99.3%	72.7%	Improvement Needed
Distribution Center C	Atlanta, GA	53.8%	1,901	2,855	97.3%	77.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.3%	2,671	3,080	97.8%	63.5%	Improvement Needed
Distribution Center E	Newark, NJ	92.4%	2,897	2,940	95.2%	60.2%	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