Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 68.9%
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	73.1%	2,263	3,046	97.2%	75.6%	Improvement Needed
Distribution Center B	Dallas, TX	82.6%	2,028	3,300	99.2%	61.1%	Improvement Needed
Distribution Center C	Atlanta, GA	46.9%	2,786	3,543	97.6%	68.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.4%	2,129	1,581	95.0%	69.7%	Improvement Needed
Distribution Center E	Newark, NJ	108.1%	2,673	2,880	97.2%	69.9%	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