Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 73.9%
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	46.1%	2,860	1,837	95.5%	69.5%	Improvement Needed
Distribution Center B	Dallas, TX	84.8%	1,925	3,863	99.4%	77.4%	Improvement Needed
Distribution Center C	Atlanta, GA	61.9%	1,001	1,775	97.4%	79.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	98.3%	2,394	1,721	98.6%	64.9%	Improvement Needed
Distribution Center E	Newark, NJ	34.1%	2,034	3,875	96.7%	77.8%	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