Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 69.8%
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	66.1%	1,397	1,947	98.9%	63.7%	Improvement Needed
Distribution Center B	Dallas, TX	53.9%	1,434	1,845	97.5%	65.2%	Improvement Needed
Distribution Center C	Atlanta, GA	68.5%	1,756	2,920	96.9%	75.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	51.9%	2,744	3,007	96.1%	75.2%	Improvement Needed
Distribution Center E	Newark, NJ	51.0%	1,652	2,184	95.2%	69.0%	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