Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 75.9%
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	105.1%	1,528	3,401	98.8%	65.7%	Improvement Needed
Distribution Center B	Dallas, TX	60.0%	2,175	1,804	98.4%	89.3%	Optimized
Distribution Center C	Atlanta, GA	49.6%	2,181	1,647	97.7%	82.3%	Optimized
Distribution Center D	Los Angeles, CA	69.9%	2,513	2,269	98.0%	64.8%	Improvement Needed
Distribution Center E	Newark, NJ	74.7%	1,619	2,719	98.4%	77.4%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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