Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 72.9%
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	55.5%	2,097	2,720	95.8%	82.0%	Optimized
Distribution Center B	Dallas, TX	42.2%	1,804	2,449	97.5%	84.4%	Optimized
Distribution Center C	Atlanta, GA	58.1%	2,967	1,570	95.6%	61.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.8%	1,703	3,183	98.8%	67.8%	Improvement Needed
Distribution Center E	Newark, NJ	86.5%	2,619	2,635	95.4%	68.6%	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