Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 80.5%
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	68.3%	2,566	2,509	98.4%	85.5%	Optimized
Distribution Center B	Dallas, TX	50.4%	2,081	3,962	99.5%	82.2%	Optimized
Distribution Center C	Atlanta, GA	58.9%	1,796	1,929	99.1%	72.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	83.3%	1,451	3,167	98.2%	84.0%	Optimized
Distribution Center E	Newark, NJ	55.7%	2,198	1,700	95.2%	78.3%	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