Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 81.3%
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	82.6%	2,046	3,623	95.4%	94.2%	Optimized
Distribution Center B	Dallas, TX	100.2%	1,460	3,335	97.9%	84.1%	Optimized
Distribution Center C	Atlanta, GA	51.8%	1,713	2,616	95.4%	67.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.6%	2,660	3,278	99.0%	81.3%	Optimized
Distribution Center E	Newark, NJ	59.8%	2,068	2,834	97.5%	79.8%	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