Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 82.1%
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	98.4%	1,603	3,099	95.7%	81.2%	Optimized
Distribution Center B	Dallas, TX	67.1%	2,121	3,879	95.7%	77.4%	Improvement Needed
Distribution Center C	Atlanta, GA	46.8%	2,352	2,163	96.3%	88.3%	Optimized
Distribution Center D	Los Angeles, CA	58.4%	1,573	2,686	99.0%	81.5%	Optimized
Distribution Center E	Newark, NJ	85.2%	1,419	2,660	97.2%	82.2%	Optimized

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