Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 82.6%
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	90.1%	2,340	2,154	99.1%	61.1%	Improvement Needed
Distribution Center B	Dallas, TX	58.4%	1,562	1,761	96.1%	85.9%	Optimized
Distribution Center C	Atlanta, GA	46.7%	2,287	3,429	98.3%	86.7%	Optimized
Distribution Center D	Los Angeles, CA	59.5%	2,912	3,815	97.8%	88.2%	Optimized
Distribution Center E	Newark, NJ	94.0%	1,482	2,256	97.1%	91.0%	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