Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 20
Average Utilization: 81.1%
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	74.1%	2,083	2,445	96.9%	88.1%	Optimized
Distribution Center B	Dallas, TX	79.0%	1,226	3,860	96.3%	79.9%	Improvement Needed
Distribution Center C	Atlanta, GA	58.2%	1,826	1,518	95.4%	75.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	43.7%	2,639	3,739	97.2%	74.1%	Improvement Needed
Distribution Center E	Newark, NJ	68.2%	1,229	1,760	95.0%	87.4%	Optimized

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