Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 77.8%
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	103.3%	2,932	1,850	96.8%	87.4%	Optimized
Distribution Center B	Dallas, TX	102.9%	2,998	3,218	96.7%	66.2%	Improvement Needed
Distribution Center C	Atlanta, GA	75.2%	2,315	2,970	96.9%	77.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	75.3%	2,227	2,184	95.0%	65.8%	Improvement Needed
Distribution Center E	Newark, NJ	42.5%	1,459	3,438	95.9%	92.7%	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