Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 76
Average Utilization: 77.3%
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	65.6%	2,364	1,614	99.5%	73.5%	Improvement Needed
Distribution Center B	Dallas, TX	60.7%	2,944	2,076	96.0%	88.8%	Optimized
Distribution Center C	Atlanta, GA	84.0%	2,594	1,506	98.3%	62.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.4%	1,532	3,027	98.3%	67.6%	Improvement Needed
Distribution Center E	Newark, NJ	60.0%	2,595	2,696	95.9%	94.0%	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