Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 73.3%
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	67.9%	1,887	3,340	98.3%	71.4%	Improvement Needed
Distribution Center B	Dallas, TX	108.4%	2,515	2,448	97.1%	61.8%	Improvement Needed
Distribution Center C	Atlanta, GA	65.5%	1,294	2,327	99.0%	83.3%	Optimized
Distribution Center D	Los Angeles, CA	39.6%	1,841	2,639	98.5%	87.9%	Optimized
Distribution Center E	Newark, NJ	81.7%	1,666	2,592	95.7%	62.0%	Improvement Needed

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