Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 71
Average Utilization: 75.1%
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	58.7%	1,953	2,514	96.9%	69.3%	Improvement Needed
Distribution Center B	Dallas, TX	121.2%	2,865	3,321	95.9%	80.5%	Optimized
Distribution Center C	Atlanta, GA	67.4%	1,898	2,695	98.1%	73.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	98.6%	2,720	3,607	96.3%	88.4%	Optimized
Distribution Center E	Newark, NJ	131.6%	2,861	2,551	96.3%	64.0%	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