Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 72.9%
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	81.6%	2,464	3,931	96.7%	83.1%	Optimized
Distribution Center B	Dallas, TX	87.7%	2,698	2,004	99.1%	92.0%	Optimized
Distribution Center C	Atlanta, GA	33.7%	2,358	3,463	96.2%	63.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	79.7%	1,524	1,944	98.7%	65.1%	Improvement Needed
Distribution Center E	Newark, NJ	50.7%	1,430	2,411	99.1%	61.2%	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