Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 79.0%
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	33.4%	2,076	2,948	95.6%	82.2%	Optimized
Distribution Center B	Dallas, TX	81.1%	1,642	2,845	97.0%	74.2%	Improvement Needed
Distribution Center C	Atlanta, GA	82.1%	1,618	2,912	97.6%	82.3%	Optimized
Distribution Center D	Los Angeles, CA	98.4%	1,324	1,856	95.1%	91.4%	Optimized
Distribution Center E	Newark, NJ	81.5%	2,431	2,140	97.7%	64.9%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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