Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 76.3%
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	71.3%	2,907	1,840	95.0%	88.0%	Optimized
Distribution Center B	Dallas, TX	71.6%	1,362	3,534	95.7%	67.5%	Improvement Needed
Distribution Center C	Atlanta, GA	72.0%	2,579	1,556	97.0%	68.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.3%	1,831	3,685	95.1%	90.9%	Optimized
Distribution Center E	Newark, NJ	61.0%	1,962	2,770	95.4%	66.2%	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