Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 76.9%
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	51.3%	1,220	1,743	95.3%	64.7%	Improvement Needed
Distribution Center B	Dallas, TX	40.2%	2,759	1,975	98.3%	75.0%	Improvement Needed
Distribution Center C	Atlanta, GA	46.4%	2,370	2,668	95.4%	91.3%	Optimized
Distribution Center D	Los Angeles, CA	58.9%	1,138	3,411	95.7%	73.5%	Improvement Needed
Distribution Center E	Newark, NJ	56.1%	2,938	1,597	98.8%	80.0%	Optimized

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