Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 75.7%
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	37.2%	1,687	3,809	97.9%	78.8%	Improvement Needed
Distribution Center B	Dallas, TX	46.1%	2,231	3,184	98.5%	81.7%	Optimized
Distribution Center C	Atlanta, GA	75.8%	2,319	2,361	97.3%	72.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	74.3%	1,433	1,544	99.3%	85.6%	Optimized
Distribution Center E	Newark, NJ	94.8%	2,722	3,160	97.2%	60.3%	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