Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 75.9%
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	33.2%	2,912	2,209	98.0%	93.9%	Optimized
Distribution Center B	Dallas, TX	100.4%	2,439	3,626	97.3%	69.5%	Improvement Needed
Distribution Center C	Atlanta, GA	81.0%	1,070	2,298	97.2%	87.6%	Optimized
Distribution Center D	Los Angeles, CA	100.4%	2,547	3,299	99.3%	67.6%	Improvement Needed
Distribution Center E	Newark, NJ	55.4%	1,873	3,278	96.3%	61.0%	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