Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 77.2%
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	96.9%	2,901	3,512	95.3%	92.0%	Optimized
Distribution Center B	Dallas, TX	46.0%	2,372	1,779	98.4%	63.2%	Improvement Needed
Distribution Center C	Atlanta, GA	30.3%	2,739	1,957	95.2%	76.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.7%	2,458	3,823	99.5%	84.5%	Optimized
Distribution Center E	Newark, NJ	38.0%	1,347	2,399	99.1%	69.7%	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