Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 22
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	54.8%	2,977	1,613	95.6%	84.0%	Optimized
Distribution Center B	Dallas, TX	81.9%	2,070	1,919	95.1%	69.4%	Improvement Needed
Distribution Center C	Atlanta, GA	56.5%	2,083	2,676	95.8%	60.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	95.8%	1,801	3,681	98.3%	94.7%	Optimized
Distribution Center E	Newark, NJ	36.7%	2,046	1,768	95.7%	73.0%	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