Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
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	97.5%	2,200	2,114	98.5%	90.0%	Optimized
Distribution Center B	Dallas, TX	117.2%	1,325	2,269	99.4%	70.9%	Improvement Needed
Distribution Center C	Atlanta, GA	61.1%	1,836	3,653	96.7%	65.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	48.6%	2,680	2,393	99.1%	65.8%	Improvement Needed
Distribution Center E	Newark, NJ	65.8%	1,680	2,813	96.9%	87.0%	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