Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 81.1%
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	81.6%	2,261	2,475	99.5%	77.9%	Improvement Needed
Distribution Center B	Dallas, TX	35.3%	2,226	3,643	97.2%	91.8%	Optimized
Distribution Center C	Atlanta, GA	46.6%	2,039	3,555	98.9%	75.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	86.8%	1,211	3,892	98.0%	84.3%	Optimized
Distribution Center E	Newark, NJ	59.9%	2,476	2,119	97.8%	76.4%	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