Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 78.6%
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	57.1%	2,664	2,383	96.3%	87.3%	Optimized
Distribution Center B	Dallas, TX	38.2%	2,146	2,943	96.6%	75.5%	Improvement Needed
Distribution Center C	Atlanta, GA	110.6%	1,589	2,962	97.2%	66.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	58.0%	2,718	2,331	98.7%	82.9%	Optimized
Distribution Center E	Newark, NJ	97.1%	1,513	3,215	98.2%	80.6%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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