Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 80.2%
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	61.1%	1,142	2,150	98.7%	87.7%	Optimized
Distribution Center B	Dallas, TX	44.9%	1,383	3,975	97.5%	63.7%	Improvement Needed
Distribution Center C	Atlanta, GA	118.8%	1,360	3,470	97.0%	88.8%	Optimized
Distribution Center D	Los Angeles, CA	97.2%	1,131	1,961	96.0%	72.4%	Improvement Needed
Distribution Center E	Newark, NJ	72.4%	1,926	1,551	98.0%	88.2%	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