Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 77.9%
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	59.1%	2,273	2,475	99.2%	64.5%	Improvement Needed
Distribution Center B	Dallas, TX	65.9%	1,680	2,830	96.3%	92.4%	Optimized
Distribution Center C	Atlanta, GA	52.2%	2,527	3,511	96.5%	65.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	83.9%	1,365	2,149	96.1%	84.5%	Optimized
Distribution Center E	Newark, NJ	65.1%	1,069	3,368	99.0%	82.2%	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