Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 82.7%
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	85.3%	1,127	3,826	96.8%	82.9%	Optimized
Distribution Center B	Dallas, TX	68.3%	1,998	2,436	96.1%	83.7%	Optimized
Distribution Center C	Atlanta, GA	60.8%	2,428	2,776	96.4%	89.8%	Optimized
Distribution Center D	Los Angeles, CA	42.9%	1,804	2,051	98.1%	77.8%	Improvement Needed
Distribution Center E	Newark, NJ	36.6%	2,716	3,489	96.1%	79.6%	Improvement Needed

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