Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 80.8%
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	82.6%	1,274	3,629	98.5%	88.1%	Optimized
Distribution Center B	Dallas, TX	64.5%	1,664	3,129	99.3%	80.9%	Optimized
Distribution Center C	Atlanta, GA	80.1%	1,526	3,238	98.2%	88.7%	Optimized
Distribution Center D	Los Angeles, CA	57.4%	2,381	1,955	96.1%	66.4%	Improvement Needed
Distribution Center E	Newark, NJ	62.8%	1,365	2,063	97.6%	79.8%	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