Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 73.9%
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	127.1%	2,427	3,645	96.0%	67.4%	Improvement Needed
Distribution Center B	Dallas, TX	48.4%	2,563	2,410	96.1%	89.6%	Optimized
Distribution Center C	Atlanta, GA	66.5%	2,392	3,544	96.8%	65.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.9%	2,921	3,222	96.5%	66.9%	Improvement Needed
Distribution Center E	Newark, NJ	34.7%	1,227	3,092	98.9%	80.0%	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