Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 73.1%
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	92.9%	1,787	1,741	95.7%	77.5%	Improvement Needed
Distribution Center B	Dallas, TX	93.1%	1,295	2,643	99.4%	66.0%	Improvement Needed
Distribution Center C	Atlanta, GA	78.0%	2,977	2,405	95.3%	66.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	53.5%	2,736	1,660	96.2%	61.7%	Improvement Needed
Distribution Center E	Newark, NJ	34.2%	1,680	2,402	97.8%	93.9%	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