Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 74.5%
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	93.4%	1,742	1,541	97.0%	73.2%	Improvement Needed
Distribution Center B	Dallas, TX	61.2%	2,884	2,838	98.9%	72.2%	Improvement Needed
Distribution Center C	Atlanta, GA	93.7%	2,152	3,830	96.8%	84.6%	Optimized
Distribution Center D	Los Angeles, CA	53.3%	2,803	3,170	95.5%	77.6%	Improvement Needed
Distribution Center E	Newark, NJ	58.1%	2,932	1,868	97.4%	64.7%	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