Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 71.4%
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	67.4%	1,341	2,997	96.0%	70.4%	Improvement Needed
Distribution Center B	Dallas, TX	85.3%	1,108	2,972	95.6%	60.3%	Improvement Needed
Distribution Center C	Atlanta, GA	85.5%	1,959	3,774	95.2%	64.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	77.3%	2,822	2,800	99.2%	68.4%	Improvement Needed
Distribution Center E	Newark, NJ	66.3%	1,585	3,061	96.9%	93.2%	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