Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 75.8%
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	49.6%	2,531	3,937	95.4%	66.1%	Improvement Needed
Distribution Center B	Dallas, TX	64.8%	2,375	1,566	99.0%	78.5%	Improvement Needed
Distribution Center C	Atlanta, GA	68.2%	1,187	1,777	95.1%	88.6%	Optimized
Distribution Center D	Los Angeles, CA	67.8%	2,526	3,572	96.6%	68.4%	Improvement Needed
Distribution Center E	Newark, NJ	51.9%	1,189	2,183	96.3%	77.3%	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