Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 30
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	71.2%	2,118	3,692	96.3%	75.0%	Improvement Needed
Distribution Center B	Dallas, TX	93.8%	2,643	2,242	99.0%	71.2%	Improvement Needed
Distribution Center C	Atlanta, GA	65.7%	2,417	3,823	95.2%	69.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	74.6%	2,795	1,683	97.3%	81.1%	Optimized
Distribution Center E	Newark, NJ	56.6%	2,367	3,048	98.0%	60.2%	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