Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 72.3%
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	95.5%	1,202	3,197	96.4%	65.5%	Improvement Needed
Distribution Center B	Dallas, TX	102.4%	2,547	1,565	97.8%	64.5%	Improvement Needed
Distribution Center C	Atlanta, GA	72.0%	2,911	3,372	96.2%	93.0%	Optimized
Distribution Center D	Los Angeles, CA	49.2%	2,801	1,629	95.9%	67.0%	Improvement Needed
Distribution Center E	Newark, NJ	40.3%	2,576	2,832	98.7%	71.6%	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