Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 70.6%
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	89.5%	2,300	3,232	97.1%	79.5%	Improvement Needed
Distribution Center B	Dallas, TX	68.3%	2,525	3,881	95.7%	63.7%	Improvement Needed
Distribution Center C	Atlanta, GA	51.7%	2,678	2,923	97.0%	69.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	91.7%	2,534	3,643	97.3%	71.2%	Improvement Needed
Distribution Center E	Newark, NJ	91.8%	1,503	3,523	95.5%	69.3%	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