Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
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	72.9%	2,650	2,650	97.0%	76.8%	Improvement Needed
Distribution Center B	Dallas, TX	51.2%	2,058	2,573	97.8%	71.2%	Improvement Needed
Distribution Center C	Atlanta, GA	78.0%	2,603	1,598	98.7%	64.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.8%	2,544	3,677	99.4%	79.4%	Improvement Needed
Distribution Center E	Newark, NJ	81.7%	2,839	3,802	95.0%	69.7%	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