Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 77.7%
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	49.5%	1,666	2,792	98.8%	81.3%	Optimized
Distribution Center B	Dallas, TX	83.2%	2,761	2,866	97.7%	91.1%	Optimized
Distribution Center C	Atlanta, GA	32.3%	2,597	3,749	95.7%	73.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	37.5%	2,456	3,830	98.3%	78.1%	Improvement Needed
Distribution Center E	Newark, NJ	36.6%	1,585	3,527	95.5%	64.2%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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