Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 73.1%
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	83.9%	1,221	2,087	96.4%	64.8%	Improvement Needed
Distribution Center B	Dallas, TX	82.0%	1,416	2,124	96.8%	61.3%	Improvement Needed
Distribution Center C	Atlanta, GA	40.4%	1,587	3,196	97.2%	87.1%	Optimized
Distribution Center D	Los Angeles, CA	74.2%	1,216	1,976	99.0%	91.7%	Optimized
Distribution Center E	Newark, NJ	78.0%	2,346	3,878	97.7%	60.5%	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