Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 77.8%
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	93.5%	2,038	1,899	98.2%	79.7%	Improvement Needed
Distribution Center B	Dallas, TX	50.7%	1,478	2,869	98.0%	78.3%	Improvement Needed
Distribution Center C	Atlanta, GA	68.3%	1,455	3,598	97.5%	72.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.1%	1,342	1,936	99.0%	87.3%	Optimized
Distribution Center E	Newark, NJ	43.0%	1,540	3,678	99.3%	71.0%	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