Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 73.7%
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	66.0%	2,020	2,904	96.2%	77.9%	Improvement Needed
Distribution Center B	Dallas, TX	79.2%	1,978	2,978	96.0%	75.1%	Improvement Needed
Distribution Center C	Atlanta, GA	129.5%	2,947	2,541	96.3%	76.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	90.5%	2,787	1,666	98.5%	76.3%	Improvement Needed
Distribution Center E	Newark, NJ	80.0%	1,345	2,040	99.1%	62.4%	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