Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 74.4%
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	58.2%	1,159	3,618	98.5%	69.3%	Improvement Needed
Distribution Center B	Dallas, TX	101.7%	1,978	2,295	97.9%	73.4%	Improvement Needed
Distribution Center C	Atlanta, GA	81.9%	1,597	2,409	97.3%	69.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	79.1%	2,331	2,089	95.2%	65.7%	Improvement Needed
Distribution Center E	Newark, NJ	87.4%	1,773	3,448	98.5%	94.1%	Optimized

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