Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 69.9%
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	90.4%	1,503	2,750	95.6%	66.3%	Improvement Needed
Distribution Center B	Dallas, TX	72.0%	2,060	2,951	96.4%	69.2%	Improvement Needed
Distribution Center C	Atlanta, GA	63.3%	2,136	3,804	97.0%	86.6%	Optimized
Distribution Center D	Los Angeles, CA	99.0%	2,841	2,402	99.3%	61.3%	Improvement Needed
Distribution Center E	Newark, NJ	68.2%	2,255	3,865	97.8%	66.0%	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