Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 72.2%
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	61.8%	2,031	2,472	96.0%	68.0%	Improvement Needed
Distribution Center B	Dallas, TX	73.3%	2,242	2,829	99.0%	92.0%	Optimized
Distribution Center C	Atlanta, GA	82.6%	1,718	3,197	96.9%	62.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	57.9%	1,341	1,531	95.8%	64.1%	Improvement Needed
Distribution Center E	Newark, NJ	38.4%	2,522	3,058	97.9%	74.4%	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