Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 76.6%
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	124.9%	1,761	2,513	99.3%	71.9%	Improvement Needed
Distribution Center B	Dallas, TX	68.7%	2,000	1,709	95.7%	76.1%	Improvement Needed
Distribution Center C	Atlanta, GA	41.0%	1,547	3,353	98.8%	77.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.9%	2,041	3,332	95.0%	88.8%	Optimized
Distribution Center E	Newark, NJ	119.4%	2,864	3,210	97.9%	68.6%	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