Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 71.2%
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	52.8%	2,287	2,023	95.2%	63.4%	Improvement Needed
Distribution Center B	Dallas, TX	54.1%	2,535	3,095	96.0%	70.3%	Improvement Needed
Distribution Center C	Atlanta, GA	76.0%	2,216	2,618	98.0%	67.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	49.2%	2,597	2,540	97.8%	69.3%	Improvement Needed
Distribution Center E	Newark, NJ	75.1%	1,689	2,559	96.0%	85.2%	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