Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 84.4%
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	77.1%	2,615	3,052	96.3%	82.9%	Optimized
Distribution Center B	Dallas, TX	71.6%	2,813	3,430	96.8%	84.1%	Optimized
Distribution Center C	Atlanta, GA	97.0%	2,090	1,837	95.6%	88.9%	Optimized
Distribution Center D	Los Angeles, CA	67.3%	1,585	2,329	95.6%	90.4%	Optimized
Distribution Center E	Newark, NJ	85.6%	1,291	2,080	95.4%	75.6%	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