Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 70.6%
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	73.4%	2,784	2,758	98.4%	79.3%	Improvement Needed
Distribution Center B	Dallas, TX	86.9%	2,925	2,555	98.1%	68.6%	Improvement Needed
Distribution Center C	Atlanta, GA	81.7%	1,623	2,932	99.4%	74.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	32.0%	1,025	3,686	96.7%	63.7%	Improvement Needed
Distribution Center E	Newark, NJ	91.4%	1,755	3,000	98.9%	67.4%	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