Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 25
Average Utilization: 69.5%
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	60.2%	2,244	2,653	98.0%	74.7%	Improvement Needed
Distribution Center B	Dallas, TX	56.6%	1,986	2,775	97.7%	66.9%	Improvement Needed
Distribution Center C	Atlanta, GA	89.1%	1,501	3,475	95.1%	75.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	80.8%	2,889	3,301	97.1%	63.1%	Improvement Needed
Distribution Center E	Newark, NJ	62.7%	2,577	3,929	96.5%	67.1%	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