Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 70.8%
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	78.9%	1,258	3,607	97.6%	79.5%	Improvement Needed
Distribution Center B	Dallas, TX	85.7%	2,103	3,174	98.2%	69.8%	Improvement Needed
Distribution Center C	Atlanta, GA	47.1%	2,859	3,911	98.7%	71.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	94.7%	2,453	3,308	99.2%	60.5%	Improvement Needed
Distribution Center E	Newark, NJ	52.7%	2,422	3,624	95.6%	73.0%	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