Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 71.9%
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	77.2%	1,691	3,660	98.4%	66.2%	Improvement Needed
Distribution Center B	Dallas, TX	76.1%	1,654	2,176	95.0%	76.0%	Improvement Needed
Distribution Center C	Atlanta, GA	39.0%	2,596	2,704	97.4%	90.3%	Optimized
Distribution Center D	Los Angeles, CA	62.1%	2,679	3,645	97.6%	62.2%	Improvement Needed
Distribution Center E	Newark, NJ	57.9%	1,270	2,702	98.2%	64.5%	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