Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 71.2%
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	109.1%	2,392	3,016	98.0%	61.6%	Improvement Needed
Distribution Center B	Dallas, TX	95.7%	2,890	1,704	95.9%	92.3%	Optimized
Distribution Center C	Atlanta, GA	59.4%	1,676	1,968	95.5%	65.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.1%	1,295	1,564	99.1%	68.4%	Improvement Needed
Distribution Center E	Newark, NJ	91.2%	1,271	3,296	96.0%	68.0%	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