Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 74.3%
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	91.1%	2,470	3,875	99.4%	73.5%	Improvement Needed
Distribution Center B	Dallas, TX	56.9%	2,299	2,784	97.0%	82.3%	Optimized
Distribution Center C	Atlanta, GA	36.7%	2,393	3,106	95.6%	66.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	51.9%	1,106	2,308	99.3%	73.2%	Improvement Needed
Distribution Center E	Newark, NJ	61.1%	1,969	1,563	99.3%	76.2%	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