Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
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	41.2%	2,096	3,434	96.3%	72.8%	Improvement Needed
Distribution Center B	Dallas, TX	73.9%	2,624	3,045	96.9%	84.9%	Optimized
Distribution Center C	Atlanta, GA	86.1%	1,194	2,406	99.5%	76.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	34.1%	1,413	3,334	98.7%	70.5%	Improvement Needed
Distribution Center E	Newark, NJ	80.7%	2,892	2,567	98.5%	66.5%	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