Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 73.2%
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	51.6%	1,769	2,318	95.9%	69.0%	Improvement Needed
Distribution Center B	Dallas, TX	52.7%	1,685	3,266	98.8%	75.9%	Improvement Needed
Distribution Center C	Atlanta, GA	56.1%	2,967	1,985	97.0%	66.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	87.8%	2,838	2,963	97.0%	73.9%	Improvement Needed
Distribution Center E	Newark, NJ	59.1%	2,094	1,826	96.4%	81.1%	Optimized

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