Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 70.0%
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	38.9%	1,268	3,470	99.2%	90.3%	Optimized
Distribution Center B	Dallas, TX	42.1%	2,337	1,990	98.0%	69.2%	Improvement Needed
Distribution Center C	Atlanta, GA	41.2%	1,816	3,526	99.1%	61.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.5%	1,963	3,800	95.9%	62.2%	Improvement Needed
Distribution Center E	Newark, NJ	59.9%	2,336	1,513	97.7%	66.6%	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