Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 85.6%
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	42.9%	1,270	3,383	98.1%	93.5%	Optimized
Distribution Center B	Dallas, TX	59.7%	2,957	1,609	96.3%	77.0%	Improvement Needed
Distribution Center C	Atlanta, GA	57.8%	1,313	3,444	99.1%	85.0%	Optimized
Distribution Center D	Los Angeles, CA	63.0%	1,998	3,226	96.3%	78.8%	Improvement Needed
Distribution Center E	Newark, NJ	69.1%	1,031	2,035	98.2%	93.5%	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