Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 73.0%
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	84.4%	1,399	3,374	97.2%	61.9%	Improvement Needed
Distribution Center B	Dallas, TX	54.6%	1,541	2,998	95.9%	65.8%	Improvement Needed
Distribution Center C	Atlanta, GA	68.0%	1,284	2,522	98.3%	67.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.8%	1,847	3,800	95.3%	85.4%	Optimized
Distribution Center E	Newark, NJ	77.8%	2,518	3,258	98.9%	84.6%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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