Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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Automation Overview

Total Warehouses: 5 Total Robots: 43

Average Utilization: 78.5% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location	Capacity Used	Inbound/ Outbound/ Picking Automation State Day Day Accuracy Level		n Status		
Distribution Chicago, IL Center A	48.4%	2,447	2,297	98.8%	77.6%	Improvemen t Needed
Distribution Dallas, TX	36.5%	2,619	2,481	96.6%	93.6%	Optimized
Center B Distribution Atlanta, GA Center C	40.8%	1,294	3,772	99.2%	66.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA	76.7% A	2,487	2,874	98.6%	64.9%	Improvemen t Needed
Distribution Newark, NJ Center E	39.5%	1,452	3,108	97.5%	89.9%	Optimized

Optimiz ation O pportun ities

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

ment voicepicking system to improve accuracy to 99.8%

- Upgra de WMS integration for real-time inventory visibility
- Add au tomated sortation system for small package handling
- Imple ment predictive analytics for demand-based staffing
- Consid er AS/RS system for highvelocity SKUs