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: 14

Average Utilization: 77.1% 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	n Status
Distribution Chicago, IL Center A	52.1%	2,922	3,471	99.2%	67.2%	Improvemen t Needed
Distribution Dallas, TX Center B	83.8%	2,562	3,851	95.3%	77.3%	Improvemen t Needed
Distribution Atlanta, GA	64.3%	1,369	3,408	97.6%	91.6%	Optimized
Center C Distribution Los	81.2%	2,276	1,829	98.1%	83.4%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 85.8%	1,453	2,449	99.0%	66.0%	Improvemen t Needed

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