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: 27

Average Utilization: 71.7% 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	54.2%	2,627	2,960	96.0%	66.4%	Improvemen t Needed
Distribution Dallas, TX Center B	95.2%	1,052	3,957	98.3%	63.0%	Improvemen t Needed
Distribution Atlanta, GA	55.3%	2,365	3,847	97.1%	85.2%	Optimized
Center C Distribution Los	86.0%	1,658	3,442	97.6%	83.0%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 55.8%	1,938	2,071	98.2%	61.1%	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