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: 46

Average Utilization: 77.5% 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	45.6%	1,350	2,581	98.2%	68.0%	Improvemen t Needed
Distribution Dallas, TX Center B	75.1%	1,164	2,781	97.0%	79.9%	Improvemen t Needed
Distribution Atlanta, GA	60.4%	1,523	3,809	98.3%	85.7%	Optimized
Center C Distribution Los	120.0%	2,083	2,447	96.0%	81.9%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 41.3%	2,143	3,245	96.1%	71.8%	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