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: 75

Average Utilization: 79.9% 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	73.0%	2,740	2,293	96.1%	77.4%	Improvemen t Needed
Distribution Dallas, TX Center B	43.8%	2,365	3,943	99.2%	78.5%	Improvemen t Needed
Distribution Atlanta, GA	64.9%	2,376	1,997	96.4%	88.4%	Optimized
Center C Distribution Los	93.6%	1,491	3,755	97.1%	86.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 44.3%	1,596	2,059	96.7%	68.4%	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