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: 45

Average Utilization: 83.0% 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	35.1%	1,585	2,191	97.3%	64.8%	Improvemen t Needed
Distribution Dallas, TX	50.9%	2,763	2,265	99.0%	89.8%	Optimized
Center B Distribution Atlanta, GA	47.8%	1,427	3,499	97.1%	87.9%	Optimized
Center C Distribution Los	63.0%	1,155	2,945	98.5%	86.6%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 124.1%	1,299	1,553	98.4%	85.9%	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