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: 49

Average Utilization: 84.7% 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	66.9%	2,354	2,855	95.5%	73.2%	Improvemen t Needed
Distribution Dallas, TX	105.1%	2,864	3,324	97.1%	87.2%	Optimized
Center B Distribution Atlanta, GA	86.1%	2,773	2,621	97.2%	82.0%	Optimized
Center C Distribution Los	60.5%	1,962	2,247	97.7%	88.3%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 79.2%	1,924	2,639	96.5%	92.9%	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