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: 56

Average Utilization: 80.2% 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	92.8%	1,474	3,393	95.6%	72.8%	Improvemen t Needed
Distribution Dallas, TX	67.1%	1,144	2,684	96.8%	84.9%	Optimized
Center B Distribution Atlanta, GA	68.6%	2,467	1,841	95.5%	88.7%	Optimized
Center C Distribution Los	124.9%	2,920	1,751	95.1%	81.6%	Optimized
Center E Angeles, CA Center E	^A 71.7%	2,974	3,690	96.0%	72.9%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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