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: 41

Average Utilization: 78.2% 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	66.7%	2,493	2,802	96.9%	81.9%	Optimized
Center A Distribution Dallas, TX Center B	106.1%	1,142	2,581	95.4%	62.1%	Improvemen t Needed
Distribution Atlanta, GA	116.6%	2,812	1,591	99.5%	94.4%	Optimized
Center C Distribution Los	101.1%	2,368	2,432	97.3%	90.5%	Optimized
Center E Angeles, Content E	^A 127.6%	2,800	1,802	96.4%	62.0%	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