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: 58

Average Utilization: 86.1% 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	59.3%	2,269	2,018	99.1%	77.4%	Improvemen t Needed
Distribution Dallas, TX	63.9%	1,064	1,810	97.7%	90.8%	Optimized
Center B Distribution Atlanta, GA	94.4%	1,977	3,069	97.1%	94.8%	Optimized
Center C Distribution Los	46.8%	1,507	2,283	97.1%	92.9%	Optimized
Genter D Distribution Newark, NJ Center E	^A 51.4%	2,469	2,903	98.5%	74.6%	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