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: 28

Average Utilization: 78.0% 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	Status
Distribution Chicago, IL		1,907	1,512	98.7%	90.4%	Optimized
Center A Distribution Dallas, TX Center B	58.6%	1,060	3,418	98.5%	65.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	52.4%	2,212	3,383	98.8%	60.4%	Improvemen t Needed
Distribution Los	46.9%	1,467	2,216	98.6%	88.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 104.8%	2,223	2,076	96.1%	84.9%	Optimized

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