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: 30

Average Utilization: 81.0% 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	n Status
Distribution Chicago, IL Center A	61.6%	2,805	2,074	97.6%	70.5%	Improvemen t Needed
Distribution Dallas, TX	66.2%	1,061	3,706	95.2%	86.3%	Optimized
Center B Distribution Atlanta, GA	47.9%	2,358	2,533	96.3%	90.0%	Optimized
Center C Distribution Los	100.2%	1,813	3,787	98.8%	91.1%	Optimized
Center E Angeles, Content E	¹ 68.6%	1,452	2,990	98.6%	67.2%	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