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: 24

Average Utilization: 78.9% 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	61.1%	2,424	2,163	95.1%	62.3%	Improvemen t Needed
Distribution Dallas, TX	55.2%	2,505	3,267	98.1%	88.6%	Optimized
Center B Distribution Atlanta, GA	76.0%	2,635	2,562	97.0%	94.4%	Optimized
Center C Distribution Los	93.8%	1,138	2,014	99.4%	83.2%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 73.4%	1,901	1,544	97.2%	65.9%	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