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: 56

Average Utilization: 84.6% 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	40.0%	2,271	2,873	95.0%	71.5%	Improvemen t Needed
Distribution Dallas, TX	35.3%	1,393	2,182	96.4%	93.1%	Optimized
Center B Distribution Atlanta, GA	74.9%	2,844	2,390	99.4%	94.6%	Optimized
Center C Distribution Los	100.4%	2,830	1,576	99.4%	86.0%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 56.8%	2,293	2,784	96.1%	77.5%	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