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: 34

Average Utilization: 80.2% 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	79.9%	2,453	2,209	95.1%	61.9%	Improvemen t Needed
Distribution Dallas, TX	93.4%	1,413	2,500	96.6%	91.4%	Optimized
Center B Distribution Atlanta, GA	74.3%	2,730	3,000	95.8%	93.0%	Optimized
Center C Distribution Los	46.4%	2,317	3,868	95.7%	83.2%	Optimized
Center E Angeles, Content E	¹ 66.6%	2,573	1,641	99.5%	71.4%	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