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: 54

Average Utilization: 81.7% 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	73.4%	2,520	3,337	99.3%	78.8%	Improvemen t Needed
Distribution Dallas, TX		1,568	1,918	97.7%	87.1%	Optimized
Center B Distribution Atlanta, GA	102.7%	2,213	1,678	96.3%	88.7%	Optimized
Center C Distribution Los	94.8%	1,908	2,614	96.2%	88.1%	Optimized
Center E Angeles, Content E	¹ 47.7%	2,234	2,652	96.4%	65.8%	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