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: 50

Average Utilization: 79.8% 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	101.6%	2,558	1,979	99.1%	64.0%	Improvemen t Needed
Distribution Dallas, TX	116.1%	1,194	1,951	96.2%	87.3%	Optimized
Center B Distribution Atlanta, GA	48.6%	2,200	2,473	98.7%	84.2%	Optimized
Center C Distribution Los	70.4%	1,046	3,019	98.2%	90.1%	Optimized
Center E Angeles, Content E	⁴ 64.4%	1,022	3,102	97.5%	73.5%	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