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: 39

Average Utilization: 84.1% 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	Automatio Level	n Status
Distribution Chicago, IL Center A	75.7%	2,504	2,111	98.9%	78.6%	Improvemen t Needed
Distribution Dallas, TX Center B	90.6%	1,609	3,594	95.2%	69.4%	Improvemen t Needed
Distribution Atlanta, GA	59.8%	1,771	3,831	95.1%	94.5%	Optimized
Center C Distribution Los	64.2%	2,797	2,141	95.1%	87.0%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 61.7%	1,730	2,960	96.9%	90.8%	Optimized

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