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: 43

Average Utilization: 82.4% 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, I Center A	L 51.1%	2,210	3,715	97.3%	77.8%	Improvemen t Needed
Distribution Dallas, TX		1,894	3,590	99.2%	83.3%	Optimized
Center B Distribution Atlanta, G	A 60.8%	1,221	2,335	96.9%	88.0%	Optimized
Center C Distribution Los Center D Angeles, C	60.6% CA	1,069	3,182	97.3%	77.8%	Improvemen t Needed
Distribution Newark, N Center E	J 101.4%	2,697	2,965	96.0%	85.2%	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