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: 65

Average Utilization: 82.0% 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	73.5%	1,121	1,906	99.4%	61.4%	Improvemen t Needed
Distribution Dallas, TX Center B	73.6%	1,816	3,463	97.0%	79.3%	Improvemen t Needed
Distribution Atlanta, GA	82.2%	1,330	2,317	96.4%	84.1%	Optimized
Center C Distribution Los	79.5%	1,934	2,473	96.1%	93.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 113.1%	1,758	2,711	98.8%	92.3%	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