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: 28

Average Utilization: 82.5% 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	64.8%	2,846	3,804	96.6%	69.7%	Improvemen t Needed
Distribution Dallas, TX Center B	118.6%	2,794	3,751	97.9%	68.5%	Improvemen t Needed
Distribution Atlanta, GA	51.1%	2,287	3,830	98.4%	94.1%	Optimized
Center C Distribution Los	67.2%	2,751	2,815	96.4%	94.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 75.2%	1,437	1,805	99.2%	85.0%	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