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: 77

Average Utilization: 85.0% 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	108.2%	1,938	3,039	98.5%	92.2%	Optimized
Center A Distribution Dallas, TX Center B	58.9%	2,389	1,738	99.4%	78.2%	Improvemen t Needed
Distribution Atlanta, GA	67.0%	1,651	2,228	97.0%	93.9%	Optimized
Center C Distribution Los	81.7%	1,581	1,687	96.7%	92.7%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	^A 44.9%	1,260	2,675	97.4%	68.1%	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