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: 37

Average Utilization: 83.0% 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	Status
Distribution Chicago, IL	65.6%	2,245	1,622	99.0%	94.0%	Optimized
Center A Distribution Dallas, TX		1,856	2,779	97.5%	84.8%	Optimized
Center B Distribution Atlanta, GA Center C	109.2%	2,986	3,687	99.1%	78.5%	Improvemen t Needed
Distribution Los	60.0%	1,135	2,853	95.6%	92.1%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	^A 35.0%	2,735	2,575	97.0%	65.4%	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