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: 21

Average Utilization: 77.5% 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	Status
Distribution Chicago, IL	99.8%	2,356	3,605	97.0%	84.3%	Optimized
Center A Distribution Dallas, TX	65.6%	1,575	3,971	97.1%	81.1%	Optimized
Center B Distribution Atlanta, GA Center C	66.9%	2,046	2,515	97.1%	75.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	48.0% A	1,769	2,154	96.9%	65.7%	Improvemen t Needed
Distribution Newark, NJ Center E	81.2%	2,851	3,661	97.1%	80.6%	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