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: 48

Average Utilization: 76.4% 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	60.1%	2,589	3,161	96.5%	88.5%	Optimized
Center A Distribution Dallas, TX		1,334	1,981	95.3%	82.4%	Optimized
Center B Distribution Atlanta, GA	38.5%	2,388	2,730	97.4%	84.6%	Optimized
Center C Distribution Los Center D Angeles, CA	73.5% A	1,825	3,404	99.4%	65.6%	Improvemen t Needed
Distribution Newark, NJ Center E	108.6%	2,596	2,093	95.4%	60.6%	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