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: 47

Average Utilization: 82.4% 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	83.5%	1,227	3,750	97.9%	91.8%	Optimized
Center A Distribution Dallas, TX		1,535	2,051	98.8%	92.5%	Optimized
Center B Distribution Atlanta, GA Center C	54.7%	2,641	3,894	98.1%	70.6%	Improvemen t Needed
Distribution Los	57.6%	2,743	3,812	97.3%	83.8%	Optimized
Center D Distribution Newark, NJ Center E	70.4%	2,207	2,081	97.9%	73.1%	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