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: 45

Average Utilization: 75.6% 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	55.5%	1,763	3,925	96.4%	84.6%	Optimized
Center A Distribution Dallas, TX		2,641	1,772	98.3%	81.9%	Optimized
Center B Distribution Atlanta, GA Center C	82.8%	2,544	2,219	99.1%	60.9%	Improvemen t Needed
Distribution Los	71.2%	2,635	3,894	98.3%	86.5%	Optimized
Center E Angeles, CA Center E	49.1%	1,758	2,139	97.7%	64.3%	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