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: 27

Average Utilization: 81.1% 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	130.1%	2,258	2,969	98.4%	94.4%	Optimized
Center A Distribution Dallas, TX		1,388	1,596	95.9%	89.6%	Optimized
Center B Distribution Atlanta, GA Center C	96.5%	2,919	2,976	99.2%	60.1%	Improvemen t Needed
Distribution Los	78.6%	2,727	2,464	96.4%	91.4%	Optimized
Center E Angeles, CA Newark, NJ Center E	44.7%	2,351	2,779	97.5%	70.3%	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