# **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: 46

Average Utilization: 80.7% 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		2,885	3,833	97.7%	87.7%	Optimized
Center A Distribution Dallas, TX Center B	64.1%	2,084	3,751	98.6%	67.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	51.7%	2,412	1,512	97.1%	65.6%	Improvemen t Needed
Distribution Los	49.3%	1,170	1,744	96.2%	90.1%	Optimized
Senter D Distribution Newark, NJ Center E	<sup>1</sup> 84.2%	2,595	2,726	96.2%	92.4%	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