# **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: 18

Average Utilization: 85.5% 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	n Status
Distribution Chicago, IL		2,251	2,562	95.9%	93.8%	Optimized
Center A Distribution Dallas, TX Center B	44.2%	2,068	3,382	99.5%	75.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	68.9%	1,797	3,647	97.9%	75.6%	Improvemen t Needed
Distribution Los	67.9%	1,854	3,480	96.0%	91.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 54.0%	2,468	3,442	97.5%	90.6%	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