# **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: 70

Average Utilization: 80.9% 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 Center A	59.3%	1,856	1,880	99.0%	71.1%	Improvemen t Needed
Distribution Dallas, TX	92.6%	2,533	3,128	97.9%	91.8%	Optimized
Center B Distribution Atlanta, GA Center C	40.4%	1,597	3,733	95.3%	63.0%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	56.3%	2,380	3,559	98.7%	88.0%	Optimized
	<sup>4</sup> 82.1%	2,007	1,624	97.1%	90.7%	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