# **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: 84.7% 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	n Status
Distribution Chicago, IL Center A	121.0%	2,940	2,858	97.4%	78.6%	Improvemen t Needed
Distribution Dallas, TX	88.7%	2,282	2,303	97.1%	92.4%	Optimized
Center B Distribution Atlanta, GA Center C	122.3%	1,344	2,887	97.3%	64.0%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	89.5%	2,378	3,814	95.1%	94.5%	Optimized
	<sup>4</sup> 96.7%	1,727	2,509	96.8%	94.0%	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