# **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: 76

Average Utilization: 77.7% 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	79.0%	2,483	3,648	95.7%	64.8%	Improvemen t Needed
Distribution Dallas, TX	68.1%	2,767	3,452	96.6%	91.6%	Optimized
Center B Distribution Atlanta, GA Center C	56.2%	2,231	2,968	96.7%	66.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	54.6%	2,958	1,699	98.2%	80.7%	Optimized
	<sup>4</sup> 51.0%	1,204	3,459	98.9%	85.1%	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