# **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: 57

Average Utilization: 80.6% 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	70.0%	2,181	3,849	99.5%	70.3%	Improvemen t Needed
Distribution Dallas, TX	66.0%	1,475	2,397	96.4%	88.8%	Optimized
Center B Distribution Atlanta, GA Center C	86.4%	1,736	3,133	97.3%	76.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	49.7%	2,811	2,849	96.8%	82.0%	Optimized
	<sup>4</sup> 48.7%	1,600	1,937	95.2%	85.4%	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