# **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: 69

Average Utilization: 80.1% 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		2,996	3,765	96.3%	91.8%	Optimized
Center A Distribution Dallas, TX Center B	70.1%	1,294	1,668	99.1%	62.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	77.5%	1,824	1,959	98.2%	69.5%	Improvemen t Needed
Distribution Los	51.7%	1,026	3,679	98.5%	92.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 61.8%	2,842	2,056	95.4%	84.3%	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