# **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: 77.6% 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	59.3%	2,403	1,766	99.2%	85.8%	Optimized
Center A Distribution Dallas, TX		1,656	3,545	95.9%	85.5%	Optimized
Center B Distribution Atlanta, GA Center C	69.3%	2,621	3,749	97.0%	62.7%	Improvemen t Needed
Distribution Los	81.8%	1,410	3,788	96.4%	84.2%	Optimized
Genter D. Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 82.2%	2,699	1,813	95.1%	69.6%	Improvemen t Needed

# 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