# **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: 20

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		2,243	3,778	95.9%	80.0%	Optimized
Center A Distribution Dallas, TX Center B	41.6%	2,918	3,584	99.1%	71.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	99.7%	1,627	2,954	96.8%	74.8%	Improvemen t Needed
Distribution Los	48.2%	1,445	3,833	97.9%	87.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 52.4%	2,246	1,702	97.5%	88.8%	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