# **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: 83

Average Utilization: 79.7% 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		2,550	2,703	96.0%	86.5%	Optimized
Center A Distribution Dallas, TX Center B	59.3%	2,131	2,383	95.3%	73.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	43.2%	1,456	2,899	96.8%	74.0%	Improvemen t Needed
Distribution Los	97.2%	2,545	3,957	97.8%	83.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 86.0%	1,252	3,157	97.5%	81.5%	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