# **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: 39

Average Utilization: 85.8% 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	65.9%	1,250	2,057	96.2%	74.7%	Improvemen t Needed
Distribution Dallas, TX Center B	32.2%	1,492	3,119	96.8%	76.4%	Improvemen t Needed
Distribution Atlanta, GA	51.4%	1,562	2,669	95.9%	93.5%	Optimized
Center C Distribution Los	92.4%	2,641	2,044	95.8%	94.4%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	<sup>A</sup> 50.8%	2,927	3,753	96.8%	90.1%	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