# **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: 66

Average Utilization: 84.3% 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	74.4%	2,722	2,637	96.1%	75.7%	Improvemen t Needed
Distribution Dallas, TX	43.9%	2,582	2,919	97.9%	88.2%	Optimized
Center B Distribution Atlanta, GA	35.6%	1,304	2,439	98.8%	93.6%	Optimized
Center C Distribution Los Center D Angeles, CA	49.3% \	1,887	2,211	98.9%	73.3%	Improvemen t Needed
Distribution Newark, NJ Center E	62.5%	2,198	1,823	98.4%	90.6%	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