# **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: 61

Average Utilization: 80.9% 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	Status
Distribution Chicago, IL		1,856	3,038	97.0%	90.3%	Optimized
Center A Distribution Dallas, TX		1,648	2,476	97.0%	87.0%	Optimized
Center B Distribution Atlanta, GA Center C	74.0%	2,348	3,766	97.9%	66.0%	Improvemen t Needed
Distribution Los Center D Angeles, CA	58.3% \	2,230	2,734	97.8%	75.9%	Improvemen t Needed
Distribution Newark, NJ Center E	30.7%	2,274	2,853	98.7%	85.4%	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