# **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: 47

Average Utilization: 78.9% 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 Center A	78.2%	2,827	3,508	95.6%	68.2%	Improvemen t Needed
Distribution Dallas, TX	44.6%	1,641	2,475	98.1%	89.0%	Optimized
Center B Distribution Atlanta, GA	55.7%	1,997	2,983	96.5%	89.1%	Optimized
Center C Distribution Los Center D Angeles, CA	69.3% \	2,269	1,632	98.4%	67.5%	Improvemen t Needed
Distribution Newark, NJ Center E	34.5%	2,083	3,961	98.3%	80.4%	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