# **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: 33

Average Utilization: 80.2% 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		2,041	3,225	95.5%	92.5%	Optimized
Center A Distribution Dallas, TX Center B	47.8%	2,952	2,302	99.1%	62.0%	Improvemen t Needed
Distribution Atlanta, GA	31.3%	2,453	3,202	98.8%	94.8%	Optimized
Center C Distribution Los Center D Angeles, CA	67.5% \	1,909	3,470	98.4%	67.6%	Improvemen t Needed
Distribution Newark, NJ Center E	40.9%	1,310	2,850	95.1%	84.3%	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