# **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: 73

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		1,634	3,415	97.6%	91.1%	Optimized
Center A Distribution Dallas, TX Center B	99.2%	1,033	2,137	95.0%	66.4%	Improvemen t Needed
Distribution Atlanta, GA	78.2%	2,763	2,180	97.1%	83.9%	Optimized
Center C Distribution Los Center D Angeles, CA	62.6% A	2,304	2,990	96.4%	71.7%	Improvemen t Needed
Distribution Newark, NJ Center E	59.7%	1,977	1,873	96.8%	87.8%	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