# **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: 54

Average Utilization: 77.5% 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	41.8%	1,156	3,564	98.8%	63.3%	Improvemen t Needed
Distribution Dallas, TX	89.5%	1,660	2,049	96.0%	84.6%	Optimized
Center B Distribution Atlanta, GA	52.7%	1,205	2,840	97.9%	94.7%	Optimized
Center C Distribution Los Center D Angeles, C	54.5% A	2,594	1,694	98.9%	62.1%	Improvemen t Needed
Distribution Newark, NJ Center E	94.4%	1,335	2,616	97.4%	82.8%	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