# **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: 34

Average Utilization: 82.1% 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	60.4%	2,634	3,809	98.6%	93.2%	Optimized
Center A Distribution Dallas, TX		2,110	2,220	95.4%	83.3%	Optimized
Center B Distribution Atlanta, GA	82.5%	2,838	3,858	98.7%	86.8%	Optimized
Center C Distribution Los Center D Angeles, CA	65.8% A	1,789	2,164	97.4%	72.0%	Improvemen t Needed
Distribution Newark, NJ Center E	40.9%	2,003	1,510	98.0%	75.4%	Improvemen t Needed

# 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