# **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: 49

Average Utilization: 80.7% 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		2,789	3,408	96.9%	81.1%	Optimized
Center A Distribution Dallas, TX		2,186	2,873	95.6%	86.1%	Optimized
Center B Distribution Atlanta, GA Center C	66.0%	1,031	3,622	97.2%	79.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	85.6% A	1,887	3,810	99.0%	69.3%	Improvemen t Needed
Distribution Newark, NJ Center E	95.3%	2,459	2,223	98.6%	87.1%	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