# **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: 64

Average Utilization: 84.1% 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	59.8%	2,593	2,475	98.4%	92.1%	Optimized
•	40.5%	2,344	3,821	97.1%	86.1%	Optimized
Center B Distribution Atlanta, GA Center C	77.1%	2,713	1,500	96.5%	74.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA	53.9% A	2,353	3,626	97.9%	73.6%	Improvemen t Needed
Distribution Newark, NJ Center E	39.1%	1,034	3,602	96.7%	93.9%	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