# **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: 77.3% 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	108.5%	2,197	3,547	95.9%	84.2%	Optimized
Center A Distribution Dallas, TX		1,149	1,741	97.7%	81.4%	Optimized
Center B Distribution Atlanta, GA Center C	93.4%	2,272	1,748	95.3%	64.6%	Improvemen t Needed
Distribution Los	62.0%	2,552	2,373	95.4%	84.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 66.1%	1,629	1,738	98.6%	72.5%	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