# **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: 42

Average Utilization: 84.3% 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		2,535	2,215	98.9%	90.5%	Optimized
Center A Distribution Dallas, TX		1,590	2,723	96.8%	93.6%	Optimized
Center B Distribution Atlanta, GA Center C	70.4%	2,870	3,529	98.5%	75.6%	Improvemen t Needed
Distribution Los	105.5%	2,719	3,101	95.2%	94.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 107.0%	2,571	3,790	98.0%	68.0%	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