# **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: 80.4% 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	69.9%	2,671	2,693	99.2%	82.7%	Optimized
Center A Distribution Dallas, TX		2,907	3,180	96.4%	94.1%	Optimized
Center B Distribution Atlanta, GA Center C	84.6%	1,156	2,269	98.2%	64.1%	Improvemen t Needed
Distribution Los	54.5%	1,630	3,665	98.3%	88.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 36.3%	2,111	3,273	97.0%	72.6%	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