# **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: 43

Average Utilization: 76.5% 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	n Status
Distribution Chicago, IL		2,951	3,208	96.0%	91.7%	Optimized
Center A Distribution Dallas, TX		1,884	2,215	99.0%	82.1%	Optimized
Center B Distribution Atlanta, GA Center C	33.0%	2,055	2,918	95.2%	60.0%	Improvemen t Needed
Distribution Los	52.7%	2,422	2,099	97.3%	82.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 65.2%	1,301	3,354	98.2%	66.6%	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