# **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: 46

Average Utilization: 82.1% 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 Status Level	
Distribution Center A	Chicago, IL	72.9%	1,463	2,252	96.8%	70.5%	Improvemen t Needed
Distribution	•	83.4%	2,814	3,929	95.2%	91.5%	Optimized
Center B Distribution		59.2%	2,228	2,556	96.3%	84.9%	Optimized
Center C Distribution Center D	Los Angeles, CA	69.3% A	1,076	3,437	99.5%	78.4%	Improvemen t Needed
Distribution Center E	Newark, NJ	51.9%	2,167	2,932	95.1%	85.3%	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