# **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: 57

Average Utilization: 84.1% 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 Level	n Status
Distribution Chicago, IL Center A	77.6%	1,425	1,641	97.5%	73.4%	Improvemen t Needed
Distribution Dallas, TX	53.0%	1,674	3,511	97.4%	83.5%	Optimized
Center B Distribution Atlanta, GA	86.0%	1,104	1,961	96.6%	91.9%	Optimized
Center C Distribution Los	56.2%	2,558	2,412	98.1%	84.4%	Optimized
Center D Distribution Newark, NJ Center E	<sup>A</sup> 60.4%	2,207	2,547	98.9%	87.6%	Optimized

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voicepicking

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