# **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: 47

Average Utilization: 74.9% 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	50.7%	2,904	3,523	96.8%	60.2%	Improvemen t Needed
Distribution Dallas, TX Center B	106.3%	2,650	2,642	96.6%	67.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	59.3%	1,436	1,786	96.6%	68.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	54.6%	1,380	2,820	97.1%	84.8%	Optimized
	<sup>4</sup> 44.1%	1,285	1,986	97.8%	93.6%	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