# **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: 27

Average Utilization: 76.3% 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	110.2%	2,684	1,547	96.1%	65.1%	Improvemen t Needed
	79.4%	2,907	2,463	98.9%	83.4%	Optimized
Center B Distribution Atlanta, GA Center C	85.1%	2,834	3,762	98.5%	79.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	59.1%	2,891	3,211	96.0%	92.0%	Optimized
	<sup>1</sup> 55.5%	1,767	2,649	99.2%	61.4%	Improvemen t Needed

# 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