# **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: 80.4% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Location		Capacity Inbound/ Outbound/ Used Day Day		Picking Accuracy	Automation Status Level		
	Distribution Chicago, IL	34.1%	1,671	2,057	98.0%	91.8%	Optimized
	Center A Distribution Dallas, TX Center B	43.4%	1,195	1,849	98.6%	76.1%	Improvemen t Needed
	Distribution Atlanta, GA Center C	45.2%	1,157	3,326	96.0%	73.8%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	74.2% A	1,211	2,593	96.8%	77.5%	Improvemen t Needed
	Distribution Newark, NJ Center E	59.6%	1,832	3,783	97.5%	82.9%	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