# **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: 51

Average Utilization: 79.7% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Location		Capacity Inbound/ Outbo		Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL	73.2%	1,952	1,836	95.7%	91.2%	Optimized
	Center A Distribution Dallas, TX Center B	73.5%	1,076	3,265	99.1%	70.7%	Improvemen t Needed
	Distribution Atlanta, GA Center C	74.9%	2,669	2,923	96.2%	78.4%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	46.3% A	1,629	3,578	97.2%	77.9%	Improvemen t Needed
	Distribution Newark, NJ Center E	63.3%	1,073	2,386	99.3%	80.2%	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