# **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: 76

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 Status Level	
	Distribution Chicago, IL		1,661	2,506	96.2%	82.5%	Optimized
	Center A Distribution Dallas, TX		1,002	3,622	97.9%	87.9%	Optimized
	Center B Distribution Atlanta, GA Center C	53.9%	1,966	2,879	96.9%	68.0%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	91.4% \	1,715	1,779	97.3%	64.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	93.4%	1,448	2,563	96.9%	72.0%	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