# **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: 50

Average Utilization: 76.4% 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	Status
Distribution Chicago, IL	64.6%	2,286	3,919	96.7%	94.4%	Optimized
Center A Distribution Dallas, TX Center B	47.4%	1,493	3,683	98.1%	74.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	73.4%	1,729	3,862	97.1%	70.9%	Improvemen t Needed
Distribution Los	88.5%	1,381	3,843	96.9%	81.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 62.4%	2,048	2,978	95.0%	61.7%	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