# **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: 25

Average Utilization: 78.7% 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	82.2%	1,741	3,496	96.0%	78.8%	Improvemen t Needed
Distribution Dallas, TX	79.0%	1,622	2,541	97.0%	94.9%	Optimized
Center B Distribution Atlanta, GA Center C	71.1%	2,642	1,844	97.7%	74.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	82.7%	1,021	2,243	97.4%	80.2%	Optimized
	<sup>1</sup> 73.0%	1,308	1,706	98.9%	65.6%	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