# **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: 79.7% 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	81.2%	2,851	3,049	99.3%	71.0%	Improvemen t Needed
Distribution Dallas, TX	90.2%	1,621	2,507	98.8%	90.2%	Optimized
Center B Distribution Atlanta, GA Center C	35.2%	1,863	1,906	97.0%	78.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	49.5%	1,310	3,718	98.6%	91.8%	Optimized
	<sup>A</sup> 34.2%	1,488	2,441	97.2%	66.9%	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