# **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: 59

Average Utilization: 75.1% 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	64.9%	1,010	1,512	95.2%	76.2%	Improvemen t Needed
Distribution Dallas, TX	57.0%	1,362	2,944	95.3%	86.2%	Optimized
Center B Distribution Atlanta, GA Center C	59.0%	1,557	2,654	98.3%	60.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	51.3% \	1,067	3,111	98.0%	65.7%	Improvemen t Needed
Distribution Newark, NJ Center E	98.4%	1,656	3,243	96.2%	86.4%	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