# **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: 43

Average Utilization: 85.8% 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		1,455	1,933	97.7%	80.9%	Optimized
Center A Distribution Dallas, TX	64.0%	1,529	1,609	95.6%	94.8%	Optimized
Center B Distribution Atlanta, GA	61.6%	1,289	3,046	95.3%	93.7%	Optimized
Center C Distribution Los Center D Angeles, CA	70.5% \	1,575	3,358	98.0%	65.8%	Improvemen t Needed
Distribution Newark, NJ Center E	75.0%	1,580	2,567	99.1%	94.1%	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