# **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: 87.0% 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	57.0%	1,828	3,943	99.5%	89.6%	Optimized
Center A Distribution Dallas, TX		1,587	2,405	95.2%	88.0%	Optimized
Center B Distribution Atlanta, GA	64.6%	2,300	2,291	97.6%	90.1%	Optimized
Center C Distribution Los Center D Angeles, CA	96.5% \	2,761	2,984	99.4%	74.0%	Improvemen t Needed
Distribution Newark, NJ Center E	39.8%	2,455	2,338	95.3%	93.1%	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