# **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: 33

Average Utilization: 82.5% 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	63.5%	2,769	3,239	97.2%	84.3%	Optimized
Center A Distribution Dallas, TX		2,541	3,319	99.0%	85.4%	Optimized
Center B Distribution Atlanta, GA	62.1%	1,095	2,345	97.1%	83.9%	Optimized
Center C Distribution Los Center D Angeles, CA	69.0% \	2,490	1,901	96.7%	72.9%	Improvemen t Needed
Distribution Newark, NJ Center E	104.0%	2,945	2,130	95.4%	86.1%	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