# **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: 36

Average Utilization: 80.6% 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	100.6%	2,100	2,343	96.6%	61.7%	Improvemen t Needed
Distribution Dallas, TX	43.3%	2,366	3,950	95.8%	83.9%	Optimized
Center B Distribution Atlanta, GA	65.4%	1,182	3,823	98.2%	85.4%	Optimized
Center C Distribution Los	57.0%	1,824	3,694	97.6%	80.3%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	<sup>4</sup> 45.6%	1,541	1,698	95.4%	91.7%	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