## **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: 66

Average Utilization: 86.9% 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	98.4%	1,972	3,691	96.9%	91.1%	Optimized
Center A Distribution Dallas, TX	95.5%	1,749	1,917	97.2%	91.1%	Optimized
Center B Distribution Atlanta, GA	59.6%	2,291	2,416	97.1%	91.5%	Optimized
Center C Distribution Los	44.4%	1,964	1,757	96.8%	92.3%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>1</sup> 53.0%	1,407	1,741	96.1%	68.5%	Improvemen t Needed

# 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