# **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: 48

Average Utilization: 80.8% 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	n Status
Distribution Chicago, IL Center A	63.6%	2,966	3,197	96.8%	76.1%	Improvemen t Needed
Distribution Dallas, TX Center B	89.9%	1,392	1,816	96.1%	79.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	46.2%	2,335	3,282	95.6%	69.4%	Improvemen t Needed
Distribution Los	62.9%	2,567	1,870	97.9%	94.0%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 51.6%	2,045	2,777	96.7%	85.2%	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