# **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: 27

Average Utilization: 75.4% 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	94.8%	1,469	3,687	98.9%	67.2%	Improvemen t Needed
Distribution Dallas, TX Center B	65.4%	2,526	3,843	95.8%	66.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	60.0%	1,482	1,935	98.1%	78.9%	Improvemen t Needed
Distribution Los	69.0%	2,058	2,669	98.4%	82.7%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 67.5%	1,904	3,578	98.7%	82.2%	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