## **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: 37

Average Utilization: 75.6% 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	49.3%	2,499	3,299	95.2%	64.7%	Improvemen t Needed
Distribution Dallas, TX Center B	88.9%	2,357	2,247	96.3%	71.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	50.6%	1,927	2,484	96.4%	72.3%	Improvemen t Needed
Distribution Los	58.7%	2,075	2,386	96.5%	85.2%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 54.3%	1,480	2,379	97.0%	84.2%	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