## **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: 56

Average Utilization: 76.6% 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	51.0%	2,397	1,565	96.0%	72.3%	Improvemen t Needed
Distribution Dallas, TX Center B	95.4%	2,379	3,371	96.7%	64.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	43.2%	1,223	3,414	96.8%	71.8%	Improvemen t Needed
Distribution Los	63.8%	1,062	1,879	96.4%	92.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 34.4%	2,552	1,876	98.0%	81.8%	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