## **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: 31

Average Utilization: 74.9% 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	Status
Distribution Chicago, IL Center A	54.0%	2,829	3,133	98.0%	63.6%	Improvemen t Needed
Distribution Dallas, TX Center B	79.1%	2,263	3,229	98.3%	61.7%	Improvemen t Needed
Distribution Atlanta, GA	99.2%	2,443	2,436	96.4%	90.6%	Optimized
Center C Distribution Los Center D Angeles, CA	123.3% \	2,656	1,647	97.9%	77.4%	Improvemen t Needed
Distribution Newark, NJ Center E	73.7%	1,216	1,853	96.0%	81.2%	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