## **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: 40

Average Utilization: 72.8% 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	Status
Distribution Chicago, IL Center A	68.4%	2,818	1,504	96.2%	73.9%	Improvemen t Needed
Distribution Dallas, TX Center B	42.5%	2,980	2,847	97.4%	62.8%	Improvemen t Needed
Distribution Atlanta, GA	40.5%	2,866	2,412	95.6%	83.2%	Optimized
Center C Distribution Los Center D Angeles, CA	59.6% A	2,928	3,013	98.8%	62.3%	Improvemen t Needed
Distribution Newark, NJ Center E	74.1%	1,195	3,283	96.1%	81.6%	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