## **Warehouse Automation Analytics**

#### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:09 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 65

Average Utilization: 77.3% 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 Status Level	
Distribution Chicago, IL Center A	58.8%	1,057	1,755	95.2%	69.8%	Improvemen t Needed
Distribution Dallas, TX	59.1%	1,895	3,191	96.8%	91.7%	Optimized
Center B Distribution Atlanta, GA Center C	77.8%	2,399	3,414	96.4%	66.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA	80.4% A	1,428	1,631	98.8%	70.6%	Improvemen t Needed
Distribution Newark, NJ Center E	61.3%	1,853	1,910	97.5%	88.5%	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