# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:23 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 45

Average Utilization: 77.0% 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%	1,274	3,377	97.7%	62.5%	Improvemen t Needed
Distribution Dallas, TX	111.1%	1,936	3,509	99.1%	87.8%	Optimized
Center B Distribution Atlanta, GA Center C	73.3%	2,146	2,674	99.0%	63.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	39.3%	1,113	3,844	99.0%	81.4%	Optimized
	<sup>4</sup> 71.7%	1,216	2,006	97.1%	90.4%	Optimized

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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