# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:37 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 55

Average Utilization: 78.3% 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 Level	Status
Distribution Chicago, IL Center A	82.8%	1,652	3,440	99.2%	68.6%	Improvemen t Needed
Distribution Dallas, TX	30.4%	2,615	2,628	99.2%	82.8%	Optimized
Center B Distribution Atlanta, GA Center C	54.1%	2,773	1,615	97.7%	62.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	97.8%	1,162	1,650	98.1%	94.3%	Optimized
	<sup>4</sup> 46.5%	2,484	2,305	99.4%	83.5%	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