# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:01 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 71

Average Utilization: 80.8% 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	n Status
Distribution Chicago, IL Center A	134.8%	2,433	1,742	95.1%	71.9%	Improvemen t Needed
Distribution Dallas, TX	118.7%	1,281	3,135	97.2%	94.7%	Optimized
Center B Distribution Atlanta, GA Center C	46.6%	2,901	3,691	95.8%	64.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	92.9%	2,439	3,334	97.3%	89.8%	Optimized
	<sup>1</sup> 73.4%	2,562	3,682	98.3%	83.1%	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