# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:44 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 53

Average Utilization: 84.1% 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 Center A	Chicago, IL	37.4%	1,705	1,960	96.7%	74.3%	Improvemen t Needed
Distribution	•	51.5%	1,029	3,062	97.0%	94.3%	Optimized
Center B Distribution		61.3%	2,623	2,333	95.4%	91.5%	Optimized
Center C Distribution		62.1%	1,174	3,584	99.4%	86.1%	Optimized
Center D Distribution Center E	Angeles, CA Newark, NJ	<sup>1</sup> 80.2%	1,656	1,727	98.9%	74.5%	Improvemen t Needed

# 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