# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:34 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 53

Average Utilization: 84.2% 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	60.1%	2,038	1,749	96.9%	94.1%	Optimized
Center A Distribution Dallas, TX		2,568	2,843	97.3%	82.1%	Optimized
Center B Distribution Atlanta, GA Center C	54.5%	1,308	2,799	98.7%	64.1%	Improvemen t Needed
Distribution Los	56.3%	1,643	1,705	97.7%	91.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 68.2%	1,066	3,286	97.2%	89.7%	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