# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:24 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 40

Average Utilization: 85.8% 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		1,050	2,224	96.8%	88.2%	Optimized
Center A Distribution Dallas, TX		2,229	1,548	96.2%	94.2%	Optimized
Center B Distribution Atlanta, GA Center C	98.1%	2,759	2,620	99.0%	68.7%	Improvemen t Needed
Distribution Los	49.5%	1,852	2,432	96.8%	94.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 63.8%	1,628	1,761	97.8%	83.1%	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