# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:09 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 33

Average Utilization: 77.7% 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		2,375	2,641	98.6%	88.0%	Optimized
Center A Distribution Dallas, TX		1,671	1,744	95.3%	90.7%	Optimized
Center B Distribution Atlanta, GA Center C	45.8%	1,297	3,063	97.8%	73.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA	37.1% \	1,014	3,276	95.1%	71.9%	Improvemen t Needed
Distribution Newark, NJ Center E	119.8%	1,570	1,619	96.8%	64.5%	Improvemen t Needed

# 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