# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:34 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 61

Average Utilization: 77.4% 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	77.5%	2,807	3,065	98.2%	85.1%	Optimized
Center A Distribution Dallas, TX Center B	60.9%	2,146	2,320	98.5%	68.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	110.9%	2,335	1,897	98.8%	72.9%	Improvemen t Needed
Distribution Los	72.4%	1,298	1,636	97.5%	85.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	68.8%	1,781	1,638	97.0%	75.5%	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