# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:44 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 36

Average Utilization: 84.9% 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 Center A	86.7%	2,130	3,735	98.7%	76.8%	Improvemen t Needed
Distribution Dallas, TX	69.9%	2,436	2,738	95.6%	91.4%	Optimized
Center B Distribution Atlanta, GA Center C	60.9%	1,398	3,624	98.4%	77.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	56.3%	2,749	2,423	97.2%	92.3%	Optimized
	<sup>4</sup> 36.1%	2,097	2,342	97.1%	86.0%	Optimized

# 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