# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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#### **Automation Overview**

Total Warehouses: 5
Total Robots: 40

Average Utilization: 82.6% 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	Automatio Level	n Status
Distribution Chicago, I		2,289	2,587	97.7%	83.7%	Optimized
Center A Distribution Dallas, TX		1,513	3,068	96.2%	93.6%	Optimized
Center B Distribution Atlanta, GA Center C	A 125.3%	1,863	2,371	98.3%	74.0%	Improvemen t Needed
Distribution Los Center D Angeles, C Distribution Newark, NJ Center E	46.3%	1,858	3,672	95.2%	84.6%	Optimized
	ያ <sup>A</sup> 71.6%	2,970	2,497	95.5%	77.2%	Improvemen t Needed

# 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