# **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: 34

Average Utilization: 75.5% 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	53.3%	2,490	2,219	95.8%	67.6%	Improvemen t Needed
Distribution Dallas, TX	72.2%	2,110	2,395	98.0%	91.2%	Optimized
Center B Distribution Atlanta, GA Center C	48.5%	2,289	3,178	97.6%	71.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA	39.8% A	1,662	3,372	99.4%	64.6%	Improvemen t Needed
Distribution Newark, NJ Center E	46.5%	2,351	1,635	99.5%	83.0%	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