# **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: 46

Average Utilization: 78.6% 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	Automation Level	Status
Distribution Chicago, IL Center A	86.1%	1,213	1,734	96.1%	72.6%	Improvemen t Needed
Distribution Dallas, TX Center B	32.9%	1,543	3,541	98.3%	76.4%	Improvemen t Needed
Distribution Atlanta, GA	37.9%	2,350	1,917	97.8%	85.9%	Optimized
Center C Distribution Los Center D Angeles, CA	43.0% A	2,651	3,363	95.4%	68.1%	Improvemen t Needed
Distribution Newark, NJ Center E	78.4%	1,036	2,041	97.2%	90.1%	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