# **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: 33

Average Utilization: 82.0% 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	78.2%	1,056	1,809	99.0%	69.4%	Improvemen t Needed
Distribution Dallas, TX Center B	52.5%	2,427	3,008	98.4%	78.4%	Improvemen t Needed
Distribution Atlanta, GA	95.1%	2,323	1,922	96.2%	94.4%	Optimized
Center C Distribution Los Center D Angeles, CA	68.7% A	2,193	1,956	97.3%	74.8%	Improvemen t Needed
Distribution Newark, NJ Center E	75.8%	2,103	3,450	95.9%	93.2%	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