# **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: 30

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	107.4%	1,016	3,323	96.8%	93.2%	Optimized
Center A Distribution Dallas, TX	49.4%	1,551	3,155	95.3%	80.3%	Optimized
Center B Distribution Atlanta, GA Center C	68.5%	2,422	2,134	98.6%	70.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA	54.8% A	1,319	3,088	97.9%	71.1%	Improvemen t Needed
Distribution Newark, NJ Center E	94.1%	2,762	1,804	95.3%	77.5%	Improvemen t Needed

# 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