# **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: 37

Average Utilization: 72.4% 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	117.1%	2,980	3,584	98.2%	62.8%	Improvemen t Needed
Distribution Dallas, TX	100.5%	2,043	3,794	95.8%	89.3%	Optimized
Center B Distribution Atlanta, GA Center C	90.4%	1,029	2,519	98.3%	64.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA	45.5% A	2,376	2,389	96.5%	61.0%	Improvemen t Needed
Distribution Newark, NJ Center E	69.5%	1,787	2,837	97.9%	84.6%	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