# **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: 48

Average Utilization: 83.8% 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	86.5%	2,357	2,175	97.6%	89.4%	Optimized
Center A Distribution Dallas, TX		2,548	3,914	96.4%	91.9%	Optimized
Center B Distribution Atlanta, GA Center C	81.1%	2,998	3,937	97.9%	72.7%	Improvemen t Needed
Distribution Los	52.0%	1,073	2,030	95.6%	92.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	67.2%	2,193	1,702	96.4%	73.1%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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