# **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: 41

Average Utilization: 80.2% 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		2,181	3,253	97.6%	87.6%	Optimized
Center A Distribution Dallas, TX Center B	56.0%	2,452	2,167	99.2%	69.4%	Improvemen t Needed
Distribution Atlanta, GA	114.6%	1,018	2,173	95.5%	89.0%	Optimized
Center C Distribution Los Center D Angeles, CA	91.8% \	1,068	2,161	96.6%	70.1%	Improvemen t Needed
Distribution Newark, NJ Center E	50.0%	1,367	1,666	96.3%	85.1%	Optimized

# 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