# **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: 38

Average Utilization: 79.9% 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		2,026	2,675	96.4%	84.5%	Optimized
Center A Distribution Dallas, TX Center B	43.6%	2,456	3,579	95.5%	74.4%	Improvemen t Needed
Distribution Atlanta, GA	98.7%	1,784	2,307	97.4%	84.8%	Optimized
Center C Distribution Los Center D Angeles, CA	113.8% \	1,510	1,694	98.4%	64.4%	Improvemen t Needed
Distribution Newark, NJ Center E	61.2%	2,094	3,118	99.1%	91.3%	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