# **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: 81.2% 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	n Status
Distribution Chicago, IL Center A	33.2%	1,691	3,358	96.2%	65.8%	Improvemen t Needed
,	78.1%	1,164	2,314	98.3%	87.8%	Optimized
Center B Distribution Atlanta, GA	40.9%	1,996	2,087	97.9%	86.8%	Optimized
Center C Distribution Los Center D Angeles, CA	61.6% \	1,476	3,610	99.1%	71.0%	Improvemen t Needed
Distribution Newark, NJ Center E	80.4%	2,885	2,276	98.2%	94.3%	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