# **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: 40

Average Utilization: 82.5% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse L	-ocation	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution C Center A	Chicago, IL	79.8%	2,384	3,154	99.1%	73.3%	Improvemen t Needed
Distribution D	•	71.3%	2,017	3,223	99.5%	95.0%	Optimized
Center B Distribution A		67.9%	2,477	2,111	98.3%	94.8%	Optimized
Center C Distribution L Center D A	₋os ∖ngeles, CA	84.9%	1,619	3,439	98.3%	61.2%	Improvemen t Needed
Distribution N Center E	Newark, NJ	106.0%	2,584	2,993	95.6%	88.2%	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