# **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: 45

Average Utilization: 81.0% 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		1,135	3,267	97.8%	94.4%	Optimized
•		1,826	1,861	95.5%	87.9%	Optimized
Center B Distribution Atlanta, GA Center C	55.2%	2,074	2,725	96.0%	68.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA	56.5% \	1,475	1,532	96.1%	61.5%	Improvemen t Needed
Distribution Newark, NJ Center E	54.4%	1,722	1,650	97.7%	92.5%	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