# **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: 20

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	Status
Distribution Chicago, IL	92.4%	2,659	1,844	96.5%	82.0%	Optimized
Center A Distribution Dallas, TX		2,931	3,234	98.4%	86.3%	Optimized
Center B Distribution Atlanta, GA Center C	85.0%	1,266	2,776	99.2%	77.1%	Improvemen t Needed
Distribution Los	56.8%	1,521	2,403	99.1%	80.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	60.2%	1,133	3,755	98.4%	79.9%	Improvemen t Needed

# 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