# **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: 41

Average Utilization: 82.1% 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	95.9%	1,125	2,426	97.9%	91.0%	Optimized
Center A Distribution Dallas, TX Center B	45.0%	2,923	1,931	97.1%	73.3%	Improvemen t Needed
Distribution Atlanta, GA	91.9%	1,744	2,756	98.9%	93.5%	Optimized
Center C Distribution Los Center D Angeles, CA	75.3%	2,031	2,363	96.4%	68.5%	Improvemen t Needed
Distribution Newark, NJ Center E	95.4%	1,807	1,858	96.2%	84.4%	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