# **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: 71

Average Utilization: 78.0% 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	n Status
Distribution Chicago, IL Center A	108.2%	2,171	2,075	97.0%	78.7%	Improvemen t Needed
Distribution Dallas, TX	71.3%	2,097	3,078	96.8%	94.0%	Optimized
Center B Distribution Atlanta, GA Center C	65.2%	1,922	2,357	98.8%	62.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	66.2% A	2,826	3,878	98.5%	73.6%	Improvemen t Needed
Distribution Newark, NJ Center E	84.3%	2,871	3,044	96.8%	81.0%	Optimized

# **Optimiz** ation O pportun ities

Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%

• Imple

ment voicepicking 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