# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

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#### **Automation Overview**

Total Warehouses: 5
Total Robots: 31

Average Utilization: 69.7% 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 Status Level	
Distribution	Chicago, IL	86.1%	2,671	2,818	98.4%	89.2%	Optimized
Center A Distribution Center B	Dallas, TX	61.6%	2,301	2,854	97.8%	66.4%	Improvemen t Needed
Distribution Center C	Atlanta, GA	94.8%	2,353	2,388	98.0%	62.5%	Improvemen t Needed
Distribution Center D	Los Angeles, CA	66.2% \	2,265	2,064	98.2%	63.6%	Improvemen t Needed
Distribution Center E	Newark, NJ	102.4%	1,976	1,992	95.0%	66.5%	Improvemen t Needed

# 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