# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

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#### **Automation Overview**

Total Warehouses: 5
Total Robots: 45

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 Center A	Chicago, IL	94.5%	2,587	3,638	95.2%	68.4%	Improvemen t Needed
Distribution Center B	Dallas, TX	72.0%	2,477	2,694	95.1%	73.1%	Improvemen t Needed
Distribution Center C	Atlanta, GA	69.9%	2,170	3,989	98.1%	69.6%	Improvemen t Needed
Distribution Center D	Los Angeles, CA	36.1% \	2,738	2,274	96.0%	64.3%	Improvemen t Needed
Distribution Center E	Newark, NJ	45.0%	1,924	3,029	97.1%	73.0%	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