# Warehouse Automation Analytics

*Performance metrics and automation optimization insights*

## Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 83.5%
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 Center A | Chicago, IL | 128.5% | 2,906 | 2,130 | 98.7% | 90.5% | Optimized |
| Distribution Center B | Dallas, TX | 47.6% | 1,375 | 2,838 | 96.9% | 84.9% | Optimized |
| Distribution Center C | Atlanta, GA | 79.4% | 1,082 | 1,612 | 95.6% | 88.8% | Optimized |
| Distribution Center D | Los Angeles, CA | 48.7% | 2,899 | 2,409 | 99.3% | 92.6% | Optimized |
| Distribution Center E | Newark, NJ | 59.9% | 1,877 | 3,032 | 96.5% | 60.7% | Improvement Needed |

## Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-picking

system to improve accuracy to 99.8%

- Upgrade WMS integration for real-time inventory visibility
- Add automated sortation system for small package handling
- Implement predictive analytics for demand-based staffing
- Consider AS/RS system for high-velocity SKUs