# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 88.9%
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 | 94.6% | 1,981 | 3,007 | 96.0% | 88.1% | Optimized |
| Distribution Center B | Dallas, TX | 92.7% | 2,467 | 3,971 | 97.6% | 90.9% | Optimized |
| Distribution Center C | Atlanta, GA | 68.0% | 1,199 | 3,292 | 99.2% | 83.4% | Optimized |
| Distribution Center D | Los Angeles, CA | 59.0% | 1,731 | 1,500 | 98.6% | 88.2% | Optimized |
| Distribution Center E | Newark, NJ | 77.7% | 1,338 | 1,881 | 96.7% | 93.7% | Optimized |

## 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