# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 85.1%
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 | 71.5% | 1,797 | 3,061 | 96.6% | 93.7% | Optimized |
| Distribution Center B | Dallas, TX | 60.0% | 2,744 | 1,627 | 98.7% | 88.7% | Optimized |
| Distribution Center C | Atlanta, GA | 75.1% | 2,612 | 2,656 | 96.4% | 76.1% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 80.4% | 1,485 | 2,482 | 99.3% | 75.1% | Improvement Needed |
| Distribution Center E | Newark, NJ | 57.3% | 2,071 | 3,974 | 95.7% | 91.7% | 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