# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 85.5%
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 | 56.9% | 2,194 | 1,524 | 96.3% | 79.1% | Improvement Needed |
| Distribution Center B | Dallas, TX | 71.6% | 1,519 | 1,634 | 97.4% | 92.9% | Optimized |
| Distribution Center C | Atlanta, GA | 56.1% | 2,861 | 2,427 | 96.3% | 85.8% | Optimized |
| Distribution Center D | Los Angeles, CA | 131.0% | 1,110 | 3,591 | 98.8% | 78.0% | Improvement Needed |
| Distribution Center E | Newark, NJ | 39.3% | 1,298 | 3,276 | 97.9% | 91.5% | 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