# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 81.5%
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 | 36.3% | 1,197 | 3,507 | 98.9% | 89.1% | Optimized |
| Distribution Center B | Dallas, TX | 56.4% | 2,185 | 3,792 | 98.0% | 67.7% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 76.5% | 2,337 | 2,312 | 98.0% | 73.0% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 51.8% | 2,293 | 2,243 | 99.1% | 89.8% | Optimized |
| Distribution Center E | Newark, NJ | 55.2% | 1,908 | 3,379 | 95.9% | 87.9% | 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