# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 76.8%
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 | 55.1% | 1,769 | 1,842 | 96.7% | 76.6% | Improvement Needed |
| Distribution Center B | Dallas, TX | 74.5% | 2,248 | 3,996 | 97.6% | 70.2% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 78.8% | 2,016 | 3,953 | 96.7% | 70.3% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 82.9% | 1,957 | 2,238 | 96.7% | 82.2% | Optimized |
| Distribution Center E | Newark, NJ | 49.3% | 1,769 | 2,830 | 96.4% | 85.0% | Optimized |

## Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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