# Warehouse Automation Analytics

*Performance metrics and automation optimization insights*

## Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 82.0%
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 | 49.3% | 1,324 | 2,985 | 99.1% | 93.9% | Optimized |
| Distribution Center B | Dallas, TX | 46.4% | 1,257 | 2,575 | 96.3% | 95.0% | Optimized |
| Distribution Center C | Atlanta, GA | 72.3% | 1,748 | 2,619 | 97.5% | 79.6% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 36.0% | 1,254 | 2,601 | 96.8% | 73.9% | Improvement Needed |
| Distribution Center E | Newark, NJ | 41.9% | 1,939 | 2,420 | 96.0% | 67.6% | Improvement Needed |

## 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