# Warehouse Automation Analytics

*Performance metrics and automation optimization insights*

## Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 78.7%
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 | 55.5% | 2,507 | 3,916 | 98.8% | 93.9% | Optimized |
| Distribution Center B | Dallas, TX | 42.1% | 2,498 | 3,650 | 97.7% | 76.0% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 70.2% | 1,828 | 3,368 | 95.8% | 61.9% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 88.2% | 1,103 | 3,637 | 95.5% | 74.8% | Improvement Needed |
| Distribution Center E | Newark, NJ | 52.9% | 1,850 | 2,074 | 96.2% | 86.8% | 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