# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 76.9%
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 | 75.1% | 2,565 | 1,878 | 96.8% | 91.2% | Optimized |
| Distribution Center B | Dallas, TX | 41.5% | 2,308 | 1,575 | 95.5% | 84.7% | Optimized |
| Distribution Center C | Atlanta, GA | 96.4% | 1,545 | 2,303 | 99.2% | 64.5% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 66.7% | 2,991 | 2,862 | 97.3% | 78.4% | Improvement Needed |
| Distribution Center E | Newark, NJ | 50.4% | 2,441 | 1,572 | 97.8% | 65.5% | 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