# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 78.4%
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 | 90.7% | 2,311 | 3,604 | 98.2% | 68.5% | Improvement Needed |
| Distribution Center B | Dallas, TX | 98.8% | 1,068 | 3,527 | 98.1% | 82.6% | Optimized |
| Distribution Center C | Atlanta, GA | 38.1% | 1,859 | 3,422 | 98.6% | 91.9% | Optimized |
| Distribution Center D | Los Angeles, CA | 47.2% | 2,589 | 2,102 | 98.3% | 78.3% | Improvement Needed |
| Distribution Center E | Newark, NJ | 74.0% | 2,370 | 1,968 | 95.1% | 70.6% | 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