# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 77.9%
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 | 37.4% | 2,426 | 2,594 | 98.7% | 76.7% | Improvement Needed |
| Distribution Center B | Dallas, TX | 79.9% | 2,125 | 3,949 | 97.7% | 67.7% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 89.7% | 2,156 | 1,685 | 97.5% | 80.1% | Optimized |
| Distribution Center D | Los Angeles, CA | 69.3% | 2,591 | 1,652 | 98.0% | 74.9% | Improvement Needed |
| Distribution Center E | Newark, NJ | 87.0% | 1,553 | 1,862 | 97.0% | 90.3% | 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