# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 78.9%
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 | 84.8% | 1,570 | 3,590 | 96.9% | 80.2% | Optimized |
| Distribution Center B | Dallas, TX | 74.0% | 1,046 | 2,990 | 95.8% | 77.5% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 52.1% | 1,818 | 3,725 | 97.2% | 94.6% | Optimized |
| Distribution Center D | Los Angeles, CA | 104.7% | 1,856 | 1,868 | 98.4% | 79.5% | Improvement Needed |
| Distribution Center E | Newark, NJ | 80.0% | 2,608 | 3,721 | 97.9% | 62.7% | 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