# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 76
Average Utilization: 78.2%
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 | 42.9% | 2,576 | 1,634 | 98.2% | 92.6% | Optimized |
| Distribution Center B | Dallas, TX | 106.1% | 2,596 | 2,157 | 98.9% | 93.4% | Optimized |
| Distribution Center C | Atlanta, GA | 64.0% | 1,391 | 2,359 | 96.5% | 75.0% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 70.8% | 1,424 | 3,759 | 95.9% | 66.8% | Improvement Needed |
| Distribution Center E | Newark, NJ | 94.1% | 1,483 | 1,568 | 98.6% | 63.0% | 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