# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 74.4%
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 | 108.7% | 2,249 | 2,419 | 99.2% | 84.7% | Optimized |
| Distribution Center B | Dallas, TX | 61.6% | 2,647 | 3,295 | 95.8% | 71.1% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 63.0% | 1,246 | 3,403 | 98.2% | 61.3% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 84.1% | 1,091 | 3,664 | 96.6% | 65.7% | Improvement Needed |
| Distribution Center E | Newark, NJ | 108.0% | 1,982 | 3,098 | 95.6% | 88.9% | 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