# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 74.2%
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 | 38.0% | 1,801 | 1,821 | 99.3% | 68.2% | Improvement Needed |
| Distribution Center B | Dallas, TX | 49.1% | 2,180 | 1,946 | 95.6% | 86.4% | Optimized |
| Distribution Center C | Atlanta, GA | 82.6% | 2,690 | 1,666 | 96.9% | 91.2% | Optimized |
| Distribution Center D | Los Angeles, CA | 98.0% | 2,162 | 1,705 | 96.4% | 64.3% | Improvement Needed |
| Distribution Center E | Newark, NJ | 49.6% | 1,955 | 2,725 | 95.6% | 61.0% | 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