# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 75.8%
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 | 56.7% | 1,614 | 3,925 | 98.1% | 82.8% | Optimized |
| Distribution Center B | Dallas, TX | 36.6% | 2,231 | 3,206 | 99.1% | 60.8% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 64.3% | 2,844 | 3,886 | 95.8% | 69.7% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 57.5% | 1,361 | 1,778 | 96.6% | 93.4% | Optimized |
| Distribution Center E | Newark, NJ | 58.5% | 2,773 | 2,931 | 98.4% | 72.3% | 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