# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 76.0%
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 | 50.4% | 1,850 | 2,124 | 95.8% | 92.4% | Optimized |
| Distribution Center B | Dallas, TX | 52.5% | 2,925 | 3,849 | 98.4% | 75.0% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 76.0% | 1,513 | 1,773 | 98.2% | 89.6% | Optimized |
| Distribution Center D | Los Angeles, CA | 46.0% | 2,673 | 3,622 | 97.7% | 62.9% | Improvement Needed |
| Distribution Center E | Newark, NJ | 53.2% | 2,165 | 1,679 | 98.5% | 60.4% | 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