# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 79.8%
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 | 86.0% | 2,898 | 1,974 | 98.7% | 89.9% | Optimized |
| Distribution Center B | Dallas, TX | 75.2% | 2,827 | 2,456 | 95.0% | 71.2% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 65.1% | 1,504 | 3,032 | 96.5% | 70.9% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 98.7% | 2,406 | 1,701 | 99.3% | 90.8% | Optimized |
| Distribution Center E | Newark, NJ | 85.9% | 1,567 | 2,889 | 97.3% | 75.9% | 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