# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 76.7%
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 | 56.2% | 2,790 | 3,546 | 98.8% | 90.3% | Optimized |
| Distribution Center B | Dallas, TX | 62.5% | 1,429 | 3,080 | 96.6% | 64.9% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 92.1% | 2,031 | 2,609 | 95.2% | 60.2% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 64.7% | 2,386 | 1,651 | 98.7% | 78.3% | Improvement Needed |
| Distribution Center E | Newark, NJ | 71.3% | 1,488 | 3,296 | 96.9% | 89.8% | 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