# Warehouse Automation Analytics

Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 79.7%
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 | 59.2% | 2,282 | 3,724 | 97.7% | 87.4% | Optimized |
| Distribution Center B | Dallas, TX | 61.9% | 1,193 | 2,534 | 98.0% | 87.9% | Optimized |
| Distribution Center C | Atlanta, GA | 74.0% | 2,024 | 3,742 | 95.1% | 73.3% | Improvement Needed |
| Distribution Center D | Los Angeles, CA | 56.3% | 1,364 | 1,584 | 98.9% | 86.4% | Optimized |
| Distribution Center E | Newark, NJ | 79.6% | 1,494 | 1,672 | 97.3% | 63.4% | Improvement Needed |

## Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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