# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

## Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 84.6%
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 | 97.4% | 2,108 | 3,431 | 97.3% | 94.5% | Optimized |
| Distribution Center B | Dallas, TX | 88.0% | 2,709 | 1,519 | 98.3% | 68.3% | Improvement Needed |
| Distribution Center C | Atlanta, GA | 50.2% | 1,152 | 1,508 | 97.6% | 86.1% | Optimized |
| Distribution Center D | Los Angeles, CA | 105.9% | 1,651 | 2,177 | 95.6% | 86.8% | Optimized |
| Distribution Center E | Newark, NJ | 126.5% | 1,482 | 3,341 | 95.6% | 87.2% | Optimized |

## 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