Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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Automation Overview

Total Warehouses: 5
Total Robots: 43

Average Utilization: 80.4% 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 Chicago, IL | | 2,576 | 1,596 | 97.6% | 84.8% | Optimized |
| Center A Distribution Dallas, TX Center B | 37.9% | 2,175 | 1,553 | 95.1% | 72.0% | Improvemen t Needed |
| Distribution Atlanta, GA | 112.6% | 1,374 | 1,527 | 99.4% | 89.0% | Optimized |
| Center C Distribution Los | 70.1% | 1,915 | 2,279 | 99.0% | 92.6% | Optimized |
| Center E Angeles, CA Center E | 71.2% | 2,423 | 3,866 | 98.6% | 63.6% | Improvemen t Needed |

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking system to improve accuracy to 99.8%

• Upgra de WMS integration for real-time inventory visibility

• Add au tomated sortation system for small package handling

• Imple ment predictive analytics for demand-based staffing

• Consid er AS/RS system for highvelocity SKUs