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: 65

Average Utilization: 77.9% 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 | 44.6% | 1,736 | 3,702 | 96.8% | 93.1% | Optimized |
| Center A Distribution Dallas, TX Center B | 60.1% | 1,099 | 1,643 | 98.9% | 60.1% | Improvemen t Needed |
| Distribution Atlanta, GA | 56.4% | 1,372 | 2,686 | 99.0% | 80.8% | Optimized |
| Center C Distribution Los Center D Angeles, CA | 49.2% A | 1,862 | 2,936 | 96.3% | 63.5% | Improvemen t Needed |
| Distribution Newark, NJ Center E | 114.0% | 1,139 | 2,219 | 98.7% | 91.8% | Optimized |

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