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: 37

Average Utilization: 78.7% 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 | n Status |
|---|--------------------|-----------------|------------------|---------------------|---------------------|------------------------|
| Distribution Chicago, IL Center A | 73.6% | 2,265 | 3,080 | 96.7% | 69.1% | Improvemen t Needed |
| Distribution Dallas, TX Center B | 55.8% | 1,760 | 3,838 | 97.8% | 69.4% | Improvemen t Needed |
| Distribution Atlanta, GA | 46.5% | 2,175 | 3,789 | 96.6% | 90.2% | Optimized |
| Center C Distribution Los | 95.0% | 2,578 | 3,037 | 97.8% | 88.6% | Optimized |
| Genter D Angeles, CA Distribution Newark, NJ Center E | ⁴ 84.0% | 2,944 | 1,695 | 98.7% | 76.2% | Improvemen t Needed |

Optimiz ation O pportun ities

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

ment voicepicking 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