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: 35

Average Utilization: 77.2% 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 Status Level | |
|--------------------|--|------------------|-----------------|------------------|---------------------|----------------------------|---------------------|
| | Distribution Chicago, IL Center A | 119.3% | 1,897 | 1,599 | 97.9% | 63.9% | Improvemen t Needed |
| | Distribution Dallas, TX Center B | 54.0% | 2,384 | 1,771 | 98.4% | 71.5% | Improvemen t Needed |
| | Distribution Atlanta, GA | 71.2% | 1,077 | 2,778 | 99.1% | 90.2% | Optimized |
| | Center C Distribution Los Center D Angeles, CA | 88.6% \ | 1,137 | 1,584 | 98.8% | 67.5% | Improvemen t Needed |
| | Distribution Newark, NJ Center E | 78.0% | 2,045 | 3,831 | 96.1% | 93.2% | Optimized |

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