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: 22

Average Utilization: 75.5% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

| Warehouse Locatio | n Capacity Used | Inbound/ Day | Outbound/ Day | Picking Accuracy | Automation Status Level | |
|--|--------------------|-----------------|------------------|---------------------|----------------------------|------------------------|
| Distribution Chicago | , IL 51.9% | 2,884 | 2,476 | 98.9% | 80.1% | Optimized |
| Center A Distribution Dallas, 1 Center B | X 44.9% | 2,259 | 1,763 | 96.9% | 74.2% | Improvemen t Needed |
| Distribution Atlanta, Center C | GA 113.7% | 2,045 | 3,385 | 98.5% | 63.2% | Improvemen t Needed |
| Distribution Los Center D Angeles | 91.2% , CA | 2,791 | 1,676 | 97.7% | 72.2% | Improvemen t Needed |
| Distribution Newark, Center E | NJ 100.4% | 2,732 | 3,052 | 98.5% | 87.9% | 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