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: 23

Average Utilization: 79.8% 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 | 74.6% | 1,895 | 1,994 | 98.2% | 84.2% | Optimized |
| | Center A Distribution Dallas, TX Center B | 56.1% | 1,985 | 2,975 | 98.6% | 79.0% | Improvemen t Needed |
| | Distribution Atlanta, GA | 57.0% | 1,583 | 2,832 | 99.5% | 94.5% | Optimized |
| | Center C Distribution Los Center D Angeles, C | 69.5% 4 | 1,327 | 2,561 | 97.0% | 73.3% | Improvemen t Needed |
| | Distribution Newark, NJ Center E | 38.7% | 2,679 | 2,958 | 95.7% | 68.2% | 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