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: 47

Average Utilization: 77.0% 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 | 60.8% | 1,343 | 1,753 | 96.3% | 70.7% | Improvemen t Needed |
| Distribution Dallas, TX Center B | 69.9% | 2,956 | 3,919 | 96.5% | 62.2% | Improvemen t Needed |
| Distribution Atlanta, GA Center C | 76.6% | 1,688 | 3,039 | 99.0% | 78.2% | Improvemen t Needed |
| Distribution Los | 96.2% | 2,289 | 3,179 | 96.9% | 81.1% | Optimized |
| Center D Angeles, CA Distribution Newark, NJ Center E | ⁴ 42.1% | 2,705 | 2,904 | 98.3% | 92.9% | 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