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: 71

Average Utilization: 76.9% 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	Status
Distribution Chicago, IL Center A	59.3%	1,610	2,470	95.1%	73.3%	Improvemen t Needed
Distribution Dallas, TX Center B	47.3%	2,831	3,306	96.5%	62.6%	Improvemen t Needed
Distribution Atlanta, GA	85.9%	2,865	2,635	95.2%	83.4%	Optimized
Center C Distribution Los	34.2%	1,605	3,306	95.8%	94.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 53.4%	1,508	2,437	97.4%	71.2%	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