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: 41

Average Utilization: 77.5% 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	92.1%	2,445	2,702	98.7%	76.7%	Improvemen t Needed
Distribution Dallas, TX Center B	58.4%	2,591	2,550	98.8%	75.1%	Improvemen t Needed
Distribution Atlanta, GA	75.3%	1,568	2,385	99.3%	93.8%	Optimized
Center C Distribution Los	41.8%	2,639	1,678	98.5%	81.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 70.8%	1,206	2,820	96.4%	60.2%	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