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: 46

Average Utilization: 77.6% 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 Center A	99.2%	2,558	2,842	95.6%	67.6%	Improvemen t Needed
Distribution Dallas, TX Center B	60.1%	2,778	3,470	95.5%	72.7%	Improvemen t Needed
Distribution Atlanta, GA	57.1%	1,873	2,396	99.3%	92.1%	Optimized
Center C Distribution Los Center D Angeles, C/	92.7% A	2,427	2,681	95.7%	70.6%	Improvemen t Needed
Distribution Newark, NJ Center E	125.1%	1,344	3,897	98.0%	85.2%	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