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: 62

Average Utilization: 84.7% 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	67.4%	2,467	3,185	98.2%	88.9%	Optimized
Center A Distribution Dallas, TX	72.3%	1,884	2,922	96.1%	83.9%	Optimized
Center B Distribution Atlanta, GA	40.4%	2,055	3,819	98.5%	87.5%	Optimized
Center C Distribution Los	70.9%	2,717	3,763	97.1%	91.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 85.2%	1,308	2,569	97.1%	71.4%	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