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: 39

Average Utilization: 75.0% 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	85.5%	2,683	2,437	95.6%	71.1%	Improvemen t Needed
Distribution Dallas, TX Center B	75.3%	1,961	2,141	99.5%	64.6%	Improvemen t Needed
Distribution Atlanta, GA	45.1%	2,275	2,771	96.7%	88.7%	Optimized
Center C Distribution Los Center D Angeles, CA	33.5% A	2,816	2,037	98.2%	64.0%	Improvemen t Needed
Distribution Newark, NJ Center E	80.8%	2,174	3,105	98.7%	86.7%	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