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: 35

Average Utilization: 74.4% 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	56.3%	1,819	2,224	98.2%	60.0%	Improvemen t Needed
Distribution Dallas, TX	76.7%	2,997	3,306	98.2%	80.5%	Optimized
Center B Distribution Atlanta, GA	33.2%	2,473	1,936	99.2%	90.6%	Optimized
Center C Distribution Los Center D Angeles, CA	52.0% A	2,545	2,494	98.8%	77.5%	Improvemen t Needed
Distribution Newark, NJ Center E	62.4%	2,480	3,258	99.3%	63.4%	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