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: 26

Average Utilization: 79.3% 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	81.8%	1,998	3,240	96.5%	72.2%	Improvemen t Needed
Distribution Dallas, TX	68.4%	2,563	2,442	98.2%	88.7%	Optimized
Center B Distribution Atlanta, GA Center C	60.2%	2,756	3,090	97.7%	79.5%	Improvemen t Needed
Distribution Los	80.4%	2,280	3,819	95.3%	82.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 103.6%	1,430	2,355	95.1%	73.6%	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