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: 38

Average Utilization: 81.5% 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	119.7%	2,264	3,038	99.1%	68.4%	Improvemen t Needed
Distribution Dallas, TX	53.7%	2,829	2,461	98.0%	91.9%	Optimized
Center B Distribution Atlanta, GA Center C	110.5%	1,397	3,917	95.7%	79.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	32.6% \	1,949	3,282	99.0%	79.9%	Improvemen t Needed
Distribution Newark, NJ Center E	111.4%	2,330	3,984	95.3%	88.2%	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