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: 86.1% 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	50.7%	2,295	1,766	98.5%	70.4%	Improvemen t Needed
Distribution Dallas, TX	63.1%	2,616	1,755	95.1%	86.9%	Optimized
Center B Distribution Atlanta, GA	55.2%	2,689	1,709	98.2%	91.3%	Optimized
Center C Distribution Los	95.2%	1,697	3,125	95.8%	90.7%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	⁴ 49.1%	1,089	3,092	95.8%	91.2%	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