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: 77.3% 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	n Status
Distribution Chicago, IL Center A	115.4%	2,627	3,577	99.2%	75.6%	Improvemen t Needed
Distribution Dallas, TX	82.2%	2,108	3,880	99.1%	86.7%	Optimized
Center B Distribution Atlanta, GA Center C	71.8%	1,586	3,936	95.3%	67.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	95.7%	2,523	1,963	98.3%	92.2%	Optimized
	^A 96.7%	2,366	3,431	98.4%	64.2%	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