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: 44

Average Utilization: 75.9% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Inbound/ Outbound/ Used Day Day		Picking Accuracy	Automation Status Level		
	Distribution Chicago, IL Center A	54.7%	1,427	3,604	97.2%	66.2%	Improvemen t Needed
	Distribution Dallas, TX Center B	51.3%	1,388	2,289	96.9%	63.7%	Improvemen t Needed
	Distribution Atlanta, GA	42.0%	1,738	3,320	96.0%	86.3%	Optimized
	Center C Distribution Los Center D Angeles, CA	109.9% \	2,681	1,662	98.2%	71.1%	Improvemen t Needed
	Distribution Newark, NJ Center E	50.3%	2,308	3,822	98.0%	91.9%	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