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: 77

Average Utilization: 79.2% 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	49.3%	1,070	3,874	95.4%	77.3%	Improvemen t Needed
	Distribution Dallas, TX	89.1%	1,501	2,346	95.9%	86.8%	Optimized
	Center B Distribution Atlanta, GA Center C	54.1%	1,878	3,609	95.7%	76.5%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	33.8% \	2,301	1,809	96.5%	69.2%	Improvemen t Needed
	Distribution Newark, NJ Center E	57.0%	1,131	2,362	99.5%	86.3%	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