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: 33

Average Utilization: 72.2% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Locatio		Capacity Used	Inbound/ Day	Outbound/ Day	d/ Picking Automation Status Accuracy Level		
	Distribution Chicago, IL Center A	63.2%	2,727	2,836	99.2%	63.8%	Improvemen t Needed
	Distribution Dallas, TX	90.6%	2,097	2,102	97.7%	85.2%	Optimized
	Center B Distribution Atlanta, GA	43.6%	1,598	2,967	95.3%	83.6%	Optimized
	Center C Distribution Los Center D Angeles, CA	75.8% \	2,108	2,336	99.1%	65.8%	Improvemen t Needed
	Distribution Newark, NJ Center E	85.5%	1,309	3,201	99.3%	62.7%	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