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: 59

Average Utilization: 78.4% 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 Status Level		
		hicago, IL	68.0%	2,336	2,454	98.6%	94.4%	Optimized
	Center A Distribution Da Center B	allas, TX	54.0%	2,089	2,479	99.0%	71.5%	Improvemen t Needed
	Distribution At	•	65.1%	1,704	1,569	95.4%	90.8%	Optimized
	Center C Distribution Lo Center D Ar	os ngeles, CA	103.7%	1,992	1,532	97.8%	67.7%	Improvemen t Needed
	Distribution No Center E	ewark, NJ	71.1%	2,565	3,397	98.1%	67.7%	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