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: 55

Average Utilization: 74.0% 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	
	Distribution Ch Center A	icago, IL	67.7%	2,375	3,928	96.2%	68.5%	Improvemen t Needed
		ıllas, TX	36.6%	2,487	3,416	95.7%	90.2%	Optimized
	Center B Distribution Atla Center C	anta, GA	51.4%	1,397	3,321	98.5%	70.2%	Improvemen t Needed
	Distribution Los Center D Ang	s geles, CA	114.2%	1,485	2,278	96.8%	67.5%	Improvemen t Needed
	Distribution Ne Center E	wark, NJ	66.0%	1,596	2,430	96.9%	73.7%	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