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: 54

Average Utilization: 76.4% 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	
	Distribution Chic	ago, IL	77.0%	2,898	1,708	98.9%	93.5%	Optimized
		as, TX	40.0%	1,226	3,883	98.6%	91.8%	Optimized
	Center B Distribution Atlar Center C	nta, GA	57.3%	1,454	3,020	95.3%	69.1%	Improvemen t Needed
	Distribution Los Center D Ange	eles, CA	109.1% \	2,412	2,841	98.3%	62.2%	Improvemen t Needed
	Distribution New Center E	ark, NJ	73.3%	2,603	2,361	95.8%	65.6%	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