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: 68

Average Utilization: 75.0% 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	
		cago, IL	59.3%	1,188	2,368	95.3%	81.2%	Optimized
	Center A Distribution Dall Center B	las, TX	46.5%	1,312	1,998	96.7%	62.9%	Improvemen t Needed
	Distribution Atla	-	82.6%	2,144	2,517	96.3%	93.2%	Optimized
	Center C Distribution Los Center D Ang	jeles, CA	54.7%	2,071	1,706	97.0%	74.3%	Improvemen t Needed
	Distribution Nev Center E	vark, NJ	60.7%	2,199	3,059	98.3%	63.5%	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