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: 29

Average Utilization: 74.7% 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 Center A	Chicago, IL	91.4%	2,892	3,500	96.9%	63.8%	Improvemen t Needed
	Distribution	•	55.4%	1,309	3,177	98.4%	86.8%	Optimized
	Center B Distribution	Atlanta, GA	52.4%	1,827	3,585	99.4%	81.1%	Optimized
		Los Angeles, CA	55.6% A	2,723	3,937	97.1%	62.4%	Improvemen t Needed
	Distribution Center E	Newark, NJ	84.4%	2,650	3,722	98.5%	79.5%	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