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: 62

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 Center A	Chicago, IL	40.6%	2,991	3,086	97.3%	60.6%	Improvemen t Needed
	Distribution	•	45.2%	1,177	2,480	97.1%	93.0%	Optimized
	Center B Distribution		88.7%	1,983	1,588	96.5%	93.8%	Optimized
	Center C Distribution Center D	Los Angeles, CA	110.2%	2,324	1,744	96.6%	60.1%	Improvemen t Needed
	Distribution Center E	Newark, NJ	62.8%	2,782	3,792	96.4%	62.4%	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