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: 37

Average Utilization: 77.9% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Used	Inbound/ Day	Outbound/	Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL Center A	75.3%	1,000	2,365	98.6%	66.1%	Improvemen t Needed
	Distribution Dallas, TX Center B	47.9%	1,484	1,533	97.2%	79.9%	Improvemen t Needed
	Distribution Atlanta, GA	79.9%	1,707	3,608	97.5%	88.1%	Optimized
	Center C Distribution Los Center D Angeles, CA	38.9% \	1,016	2,949	97.5%	71.3%	Improvemen t Needed
	Distribution Newark, NJ Center E	52.1%	1,725	2,362	98.9%	84.1%	Optimized

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