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: 42

Average Utilization: 76.0% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location			Capacity Used	Inbound/ Day	d/ Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chica	go, IL	67.6%	1,171	3,538	97.7%	88.2%	Optimized
	Center A Distribution Dallas Center B	s, TX	84.8%	2,673	3,996	95.6%	69.3%	Improvemen t Needed
	Distribution Atlant	a, GA	48.4%	2,611	3,279	97.4%	83.6%	Optimized
	Center C Distribution Los Center D Angel	es, CA	81.1% \	2,851	3,179	97.0%	72.1%	Improvemen t Needed
	Distribution Newa Center E	rk, NJ	57.6%	1,773	2,394	97.2%	66.6%	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