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: 50

Average Utilization: 81.1% 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		
		Chicago, IL	100.9%	1,185	3,640	95.5%	81.1%	Optimized
	Center A Distribution I Center B	Dallas, TX	37.5%	2,079	2,241	95.9%	79.7%	Improvemen t Needed
	Distribution /	•	51.4%	1,364	3,895	96.7%	92.7%	Optimized
	Center C Distribution I Center D	Los Angeles, CA	97.4%	2,722	2,888	97.3%	73.0%	Improvemen t Needed
	Distribution I Center E	Newark, NJ	60.1%	1,141	2,428	96.6%	78.9%	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