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: 70

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/ Day	Picking Accuracy	Automation Status Level		
		Chicago, IL	102.4%	2,903	1,829	95.2%	89.4%	Optimized
	Center A Distribution I Center B	Dallas, TX	60.8%	2,503	3,003	95.3%	65.4%	Improvemen t Needed
	Distribution /	•	64.3%	2,201	3,275	97.6%	93.7%	Optimized
	Center C Distribution I Center D	Los Angeles, CA	74.7%	1,740	3,329	98.9%	78.4%	Improvemen t Needed
	Distribution I Center E	Newark, NJ	68.1%	1,336	2,511	98.9%	62.8%	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