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: 58

Average Utilization: 75.2% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		n Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
	•	, IL 51.2%	1,646	3,581	95.7%	81.2%	Optimized
	Center A Distribution Dallas, T Center B	ΓX 66.4%	1,005	2,390	98.6%	67.5%	Improvemen t Needed
	Distribution Atlanta,	GA 59.8%	2,105	1,661	96.7%	93.0%	Optimized
	Center C Distribution Los Center D Angeles	82.2% , CA	1,825	2,398	97.5%	60.4%	Improvemen t Needed
	Distribution Newark, Center E	NJ 56.9%	1,347	1,649	99.1%	74.1%	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