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: 49

Average Utilization: 76.4% 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 90.6%	2,054	2,858	96.9%	88.1%	Optimized
	Center A Distribution Dallas, 1 Center B	X 55.0%	2,130	3,841	98.0%	74.9%	Improvemen t Needed
	Distribution Atlanta,	GA 98.6%	1,086	3,062	96.9%	91.5%	Optimized
	Center C Distribution Los Center D Angeles	48.9% , CA	1,117	3,025	95.9%	61.8%	Improvemen t Needed
	Distribution Newark, Center E	NJ 58.8%	2,318	3,858	98.0%	65.8%	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