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: 52

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

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		. ,		Picking Accuracy	Automation Status Level		
	Distribution Chicago, IL Center A	73.6%	1,792	2,986	98.7%	66.8%	Improvemen t Needed
	Distribution Dallas, TX Center B	35.0%	1,251	3,908	98.3%	64.7%	Improvemen t Needed
	Distribution Atlanta, GA	126.7%	1,611	2,940	95.6%	85.1%	Optimized
	Center C Distribution Los Center D Angeles, CA	54.1% \	2,205	3,635	99.4%	73.1%	Improvemen t Needed
	Distribution Newark, NJ Center E	100.7%	2,427	1,888	95.3%	86.1%	Optimized

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