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: 51

Average Utilization: 79.2% 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	
	Distribution Chicago, Center A	L 56.3%	1,004	2,563	96.7%	77.6%	Improvemen t Needed
	Distribution Dallas, T〉 Center B	67.9%	2,042	2,288	96.5%	68.4%	Improvemen t Needed
	Distribution Atlanta, G	A 60.0%	2,875	2,188	99.1%	88.8%	Optimized
	Center C Distribution Los Center D Angeles,	118.8% CA	2,232	1,510	95.7%	74.2%	Improvemen t Needed
	Distribution Newark, N Center E	J 51.1%	2,091	1,980	96.4%	87.0%	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