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: 45

Average Utilization: 71.8% 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, IL Center A	48.5%	1,623	2,908	97.0%	67.7%	Improvemen t Needed
	Distribution Dallas, TX Center B	60.2%	1,412	3,586	99.2%	60.2%	Improvemen t Needed
	Distribution Atlanta, GA	73.2%	1,868	3,568	97.9%	81.3%	Optimized
	Center C Distribution Los Center D Angeles, CA	61.8% A	2,901	3,415	97.3%	66.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	67.1%	2,380	3,276	96.6%	83.0%	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