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: 72.0% 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	83.4%	1,069	3,494	96.6%	80.5%	Optimized
		37.0%	2,632	3,076	95.5%	83.6%	Optimized
	Center B Distribution Atlanta, GA Center C	50.6%	1,970	2,603	96.7%	68.7%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	71.2% \	2,986	1,513	95.9%	66.9%	Improvemen t Needed
	Distribution Newark, NJ Center E	89.7%	1,342	3,937	99.4%	60.1%	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