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: 53

Average Utilization: 74.5% 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		2,163	1,547	98.3%	86.3%	Optimized
	Center A Distribution Dallas, TX		1,552	3,732	96.5%	81.0%	Optimized
	Center B Distribution Atlanta, GA Center C	54.3%	2,761	2,869	97.4%	64.0%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	107.0% \	2,821	3,495	98.9%	79.2%	Improvemen t Needed
	Distribution Newark, NJ Center E	65.7%	1,669	2,714	96.4%	61.7%	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