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: 75.7% 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 Center A	Chicago, IL	131.7%	2,443	2,624	96.5%	76.7%	Improvemen t Needed
	Distribution	Dallas, TX	87.4%	1,410	3,569	96.6%	86.9%	Optimized
		Atlanta, GA	70.3%	1,109	3,243	95.1%	82.5%	Optimized
	Center C Distribution Center D	Los Angeles, CA	83.1% A	2,390	2,197	99.3%	71.0%	Improvemen t Needed
	Distribution Center E	Newark, NJ	35.5%	1,155	3,093	96.8%	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