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: 73

Average Utilization: 80.4% 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	89.6%	1,434	3,198	96.1%	63.8%	Improvemen t Needed
	Distribution	•	48.4%	1,079	3,711	98.7%	90.3%	Optimized
	Center B Distribution	Atlanta, GA	99.0%	1,125	2,361	99.2%	91.5%	Optimized
		Los Angeles, CA	89.1% \	2,568	3,927	98.5%	76.6%	Improvemen t Needed
	Distribution Center E	Newark, NJ	82.2%	2,940	3,588	95.7%	79.9%	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