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: 80.7% 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	87.2%	2,086	1,703	99.0%	76.0%	Improvemen t Needed
	Distribution	•	49.2%	2,254	2,240	98.1%	91.6%	Optimized
	Center B Distribution	Atlanta, GA	47.6%	1,839	2,533	95.8%	93.9%	Optimized
	Center C Distribution Center D	Los Angeles, CA	86.1% \	1,758	2,091	98.5%	67.6%	Improvemen t Needed
	Distribution Center E	Newark, NJ	87.5%	1,292	2,737	98.8%	74.3%	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