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: 69

Average Utilization: 72.3% 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 Center A	43.2%	1,208	1,985	97.8%	61.5%	Improvemen t Needed
	Distribution Dallas, TX	112.6%	2,184	3,983	98.8%	84.7%	Optimized
	Center B Distribution Atlanta, GA Center C	47.7%	2,418	3,417	95.5%	63.4%	Improvemen t Needed
	Distribution Los	40.7%	2,700	3,970	99.2%	85.9%	Optimized
	Center D Angeles, CA Distribution Newark, NJ Center E	¹ 79.2%	1,658	1,926	97.7%	66.0%	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