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: 38

Average Utilization: 77.6% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Inbound/ Outbound/ Jsed Day Day		Picking Accuracy	Automation Status Level			
		hicago, IL	73.3%	1,811	2,424	96.8%	83.9%	Optimized
	Center A Distribution Di Center B	allas, TX	67.6%	2,765	3,887	99.5%	78.6%	Improvemen t Needed
	Distribution At	•	48.8%	1,955	2,460	95.4%	84.3%	Optimized
	Center C Distribution Lo Center D Ai	os ngeles, CA	73.3%	2,747	2,480	97.3%	69.5%	Improvemen t Needed
	Distribution No Center E	ewark, NJ	46.4%	2,939	3,617	96.1%	71.8%	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