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: 58

Average Utilization: 78.2% 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 Ch	icago, IL	58.8%	2,988	2,647	95.5%	82.1%	Optimized
	Center A Distribution Da			2,576	3,057	98.6%	89.4%	Optimized
	Center B Distribution Atla		104.5%	1,638	2,588	97.5%	84.3%	Optimized
	Center C Distribution Los Center D Ang	s geles, CA	51.2%	2,338	2,193	97.8%	63.1%	Improvemen t Needed
	Distribution Ne Center E	wark, NJ	117.9%	2,257	2,182	97.9%	72.0%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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