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: 49

Average Utilization: 78.5% 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	
D	istribution Chicago, IL	104.3%	2,028	1,599	97.3%	87.2%	Optimized
	enter A istribution Dallas, TX		1,858	1,706	99.0%	80.6%	Optimized
	enter B istribution Atlanta, GA enter C	60.3%	1,002	3,798	96.8%	68.0%	Improvemen t Needed
	Distribution Los	56.6%	2,646	2,835	97.7%	80.4%	Optimized
	enter D Angeles, CA istribution Newark, NJ enter E	^A 60.0%	1,068	1,658	98.4%	76.6%	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